



LED WATTAGE CHART

Drive Current	80L	96L	128L	144L
350 milliamps	88W (7,895–9,497 Lumens)	105W (9,474–11,397 Lumens)	141W (12,632–15,196 Lumens)	158W (14,211–17,095 Lumens)
530 milliamps	133W (11,955–14,382 Lumens)	160W (14,346–17,258 Lumens)	213W (19,128–23,011 Lumens)	240W (21,519–25,887 Lumens)
700 milliamps	176W (15,790–18,995 Lumens)	211W (18,947–22,794 Lumens)	281W (25,263–30,392 Lumens)	316W (28,421–34,191 Lumens)
1000 milliamps	–	–	–	452W (40,602–48,844 Lumens)
1050 milliamps	251W (22,556–27,136 Lumens)	301W (27,068–32,563 Lumens)	402W (36,090–43,417 Lumens)	–

FORM

- Elegant Die-Cast Aluminum Housing
- Corrosion Resistant Stainless Steel External Hardware
- Sleek, Low Profile Housing
- Spec Grade Performance
- Engineered For Optimum Thermal Management

FUNCTION

- Micro Optics IES Distributions TE, T3DL, T4M, T5, T4FTW, and T5W
- 0-10V Dimming Drivers
THD @ Max Load < 15%
Power factor @ Max Load < 0.95
- Amber, 2700K, 3000K, 3500K, 4000K, or 5000K
- 80L, 96L, 128L or 144L LED Configuration
- CRI 70, 80, or 90
- 5 Mil Powder Coat
- Up to 48,844 Lumens

RELIABILITY

- Silicone Micro Optics
- 5 Year Standard Warranty
- IP67 Optics
- IP66 Fixture
- UL924 Emergency Relay

BUY AMERICAN

To ensure the latest BAA/TAA/BABA Standards are being met, please select BAA, TAA, or BABA in the options section. Please contact the factory before placing an order for any NLS products requesting BAA (Buy American Act), TAA (Trade Agreement Act), or BABA (Build America, Buy America).



Project Name:

Type:

ORGANIX - 3 CEILING/PENDANT MOUNT ORDERING GUIDE

Cat#	Light Dist.	# of LEDs	Drive Current	Color Temp./CRI	Voltage
Organix - 3 Ceiling Mount (ORX-3)	Standard Silicone Micro Optics	80	350	Amber LED 595nm	120-277
	Concentrated Entry (TE)	(80L)	(35)	Dominant Wavelength	(UNV)
	Type 3 Drive Lane (T3DL)	96	530	Standard Turtle Friendly (AMBER) ^{1, 6, 7, 14}	347-480
	Type 4 Medium (T4M)	(96L)	(53)		(HV)
	Type 4 Forward Throw Wide (T4FTW)	128	700	Amber LED	
	Type 5 Optimized (T5)	(128L)	(7)	Phosphor Converted (AMBER/PC) ^{1, 7, 14}	
		144	1000	2700K, 70 CRI	
		(144L)	(1A)	(27K7) ^{2, 5}	
			1050	2700K, 80 CRI	
			(1)	(27K8) ^{2, 5}	
				3000K, 70 CRI	
				(30K7) ^{2, 5}	
				3000K, 80 CRI	
				(30K8) ^{2, 5}	
				3500K, 80 CRI	
			(35K8) ²		
			4000K, 70 CRI		
			(40K7) ²		
			4000K, 80 CRI		
			(40K8) ²		
			5000K, 70 CRI		
			(50K7) ²		
			5000K, 80 CRI		
			(50K8) ²		
	Performance Silicone Micro Optics				
	Type 4 Forward Throw Wide (For perimeters) (T4FTW)				
	Type 5 Wide (For improved uniformity and wider pole spacing) (T5W)				

Mounting	Color	Controls Options	Options	Lens Options
Ceiling Mount (CM)	Bronze Textured (BRZ)	FSP-211 with Motion Sensor/Photocell (120/277VAC, 230-240VAC)	Marine Grade Finish (MGF)	Diffused Polycarbonate Visual Comfort Lens (DPCL) ^{12, 17, 18}
Pendant Mount 12" Length (PM12)	White Textured (WHT)	8' Height (FSP211-8) ^{4, 10}	Bird Spikes (BS)	Clear Tempered Glass Lens (CTG) ^{12, 17, 18}
Pendant Mount 24" Length (PM24)	Smooth White Gloss (SWT)	9'-20' Heights (FSP211-20) ^{4, 10}	Bird Shroud (BSC)	HAL Lens (HAL) ^{8, 12, 17, 18}
Pendant Mount 36" Length (PM36)	Silver Metallic (SVR)	21'-40' Heights (FSP211-40) ^{4, 10}	Glare Shield (GS) ¹	
Pendant Mount Custom Length (PMX)	Black Textured (BLK)	FSP-221 with Motion Sensor/Photocell (100/347VAC, 208/230/480VAC)	House Side Shield (HSS) ¹⁵	
	Smooth Black Gloss (SBK)	8' Height (FSP221-8) ¹¹	Single Fuse (SF)	
	Graphite Textured (GPH)	9'-20' Heights (FSP221-20) ¹¹	Double Fuse (DF)	
	Grey Textured (GRY)	21'-40' Heights (FSP221-40) ¹¹	Up Light (UPL) ¹⁶	
	Green Textured (GRN)	DALI-2 (D2) ⁹	Tamper Proof Hardware (TPH) ¹	
	Hunter Green Textured (HGN)	UL924-EMR (UL924)	5 Conductor Dimming Leads (DL)	
	Custom (CS)	Custom Controls Integration (CCI) ⁹	Black Optic Frame (BOF) ¹	
		FSP Remote (FSIR) ¹³	Buy American Act (BAA) ³	
			Trade Agreement Act (TAA) ³	
			Build America Buy American (BABA) ³	

NOTES:

1. Consult Factory for Availability, Cost, and Lead Time
2. Consult Factory for 90 CRI Request
3. Consult factory for all BAA/TAA/BABA requests
4. Universal Voltage 120-277
5. 3000K or lower, with fixed mounting options only (Must be selected to meet International DarkSky Association certification)
6. Turtle Safe
7. Not Available above 530mA
8. HAL Lens: Yellow Polycarbonate Lens - less than 2% Blue Light Content
9. Please contact Factory for Custom Control Integration requests (nLight, NX, WaveLinX, Crestron, DMX/RDM, Synapse, Casambi, Dali II, Avri-On, or other control systems)
10. FSP-211, 120V/277V, 230-240VAC (single phase), 50/60Hz
11. FSP-221, 100-347VAC (single phase) or 208/230/480VAC (phase-to-phase)
12. Not available with Motion Sensor
13. Projects with sensors require Qty. 1 FSIR per project
14. See estimated scaling chart for multiplier values to estimate lumen output. Please contact factory to verify the estimated performance data
15. HSS not available with CL, CFL, or HAL Lens
16. UPL Driver current is 800mA max
17. 700mA maximum drive current for 128L and 144L with lens options
18. 700mA Max For Lens Options



701 Kingshill Place, Carson, CA 90746
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nslighting.com

PRODUCT SPECIFICATIONS

ELECTRICAL

- 120-277 Volts (UNV) or 347-480 Volts (HV)
- 0-10V dimming driver
- Driver power factor at maximum load is $\geq .95$, THD maximum load is 15%
- LED Drivers Ambient Temp. Min is -40°C and Ambient Temp. Max ranges from 50°C to 55°C and, in some cases, even higher. Consult the factory for revalidation by providing the fixture catalog string before quoting and specifying it.
- All drivers, controls, and sensors housed in enclosed IP65 compartment
- CRI 70, 80 or 90
- Color temperatures: Amber, 2700K, 3000K, 3500K, 4000K, 5000K
- Surge Protection: 20KVA supplied as standard.

CONSTRUCTION

- Die Cast Aluminum
- Internal cooling fins
- Corrosion resistant external hardware
- One-piece silicone gasket ensures IP66 seal for electronics compartment

OPTICS

Silicone optics high thermal stability and light output provide higher powered LEDs with minimized lumen depreciation. UV stability with scratch resistance increases exterior application durability. Silicone optics do not yellow, crack or brittle over time.

CONTROL OPTIONS

- **FSP-211 w/Motion Sensor/Photocell (120/277VAC, 230-240VAC)**
(FSP-X) - Passive infrared (PIR) sensor providing multi-level control based on motion/daylight contribution.
- **FSP-221 w/Motion Sensor/Photocell (100-347VAC, 208/230/480VAC)**
(FSP-HV-X) - Passive infrared (PIR) sensor providing multi-level control based on motion/daylight contribution.
 - All control parameters adjustable via wireless configuration remote storing and transmitting sensor profiles.
 - Party Setting Available (10% output) Consult Factory
 - FSP-8 mounting heights 8 feet and below
 - FSP-20 mounting heights 9-20 feet.
 - FSP-40 mounting heights 21-40 feet.
 - Includes 5 dimming event cycles, 0-10V dimming with motion sensing, re-programmable in the field. Programmable remote must be purchased separately.
 - FSIR-100 commissioning remote is required to change sensor settings. Please contact factory for ordering.
- Controls Agnostic: Please contact factory for your preferred controls option. (nLight, NX, WaveLinx, Crestron, DMX/RDM, Synapse, Casambi, DALI II, Avi-On, or other control systems)

OPTIONS

- BIRD SPIKES (BS) - Offer an effective and humane deterrent for larger bird species and provide a cost-effective long-term solution to nuisance bird infestations and to protect your property.
- MARINE GRADE FINISH (MGF) - A multi-step process creating a protective finishing coat against harsh environments. Chemically washed in a 5-stage cleaning system. Pre-baked, Powder coated 3-5 mils of Zinc Rich Super Durable Polyester Primer. Oven Baked. Finished Powder Coating of Super Durable Polyester Powder Coat 3-5 mil thickness.
- House Side Shield (HSS) is designed for full property line cutoff.
- Wire Guard (WG)
- Tamper Proof Hardware (TPH)
- 5 Conductor Dimming Leads (DL)
- BLACK OPTIC FRAME (BOF) - Optional black optic frame. (includes black hardware) Standard is white
- Up Light (UPL)

FINISH

- 3-5 mils electrostatic powder coat.
- NLS Lighting standard high-quality finishes prevent corrosion, and protects against extreme environmental conditions.
- 10 Standard Finishes, Custom Finish and Marine Grade Finish Available

WARRANTY

- Five-year limited warranty for drivers and LEDs.
- Consult Factory for 7 or 10 year warranty

LISTINGS

- UL Listed in compliance with UL 1598, the Standard for Safety of Luminaires, including the applicable wet location requirements
- Compliant with UL 8750 LED driver design and test safety standards
- CSA C22.2 No. 250.0
- IP66 Rated Fixture
- IP67 Rated Optics
- IK10 Rated
- Dark Sky Certified, 3000K or lower, with fixed mounting options only, must be selected to meet International Dark-Sky Association certification.

BUY AMERICAN OPTION

While all of the NLS Lighting products listed in this document qualify for the Buy America(n) Act of 1933, we reserve the right to change our listings without notice.

The information provided above is for general informational purposes only. We encourage you to consult legal professionals for advice particular to your projects concerning BAA, TAA, BABA or Buy America.

Additional NLS Products that meet BAA, TAA standards can be found at the following link:

<https://nlsighting.com/buy-american/>



3000K or lower, with fixed mounting options only, must be selected to meet International Dark-Sky Association certification.

The information and specifications on this document are subject to change without any notification. All values are design, nominal, typical or prorated values when measured under internal and external laboratory conditions.

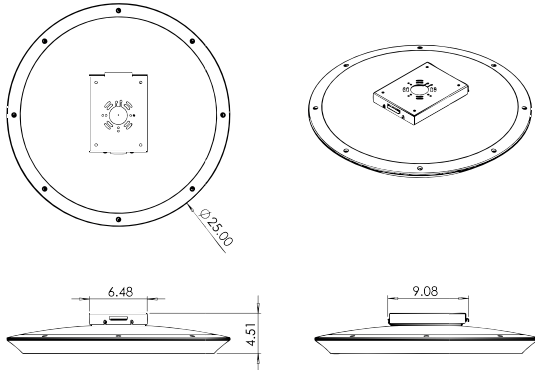


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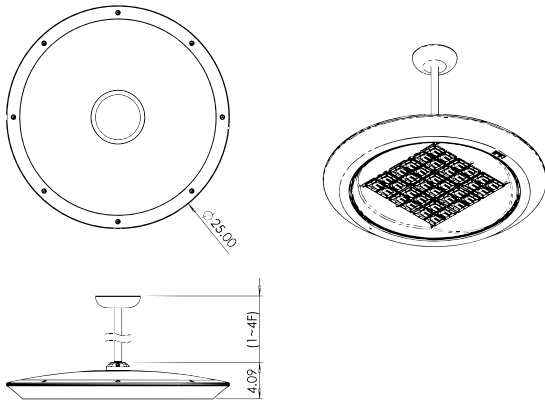
nlsighting.com

PRODUCT SPECIFICATIONS

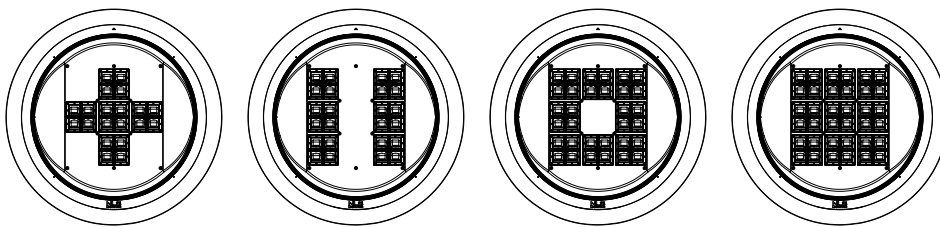
MODEL	WIDTH	HEIGHT	WEIGHT
ORX-3-CM	25"	4.51"	33 LBS



MODEL	WIDTH	HEIGHT	WEIGHT	PENDANT LENGTH	EPA
ORX-3-CM-PM12	25"	4.09"	33 LBS	12"	
ORX-3-CM-PM24	25"	4.09"	33 LBS	24"	
ORX-3-CM-PM36	25"	4.09"	33 LBS	36"	



OPTICAL CONFIGURATIONS



ORX-3/80L

ORX-3/96L

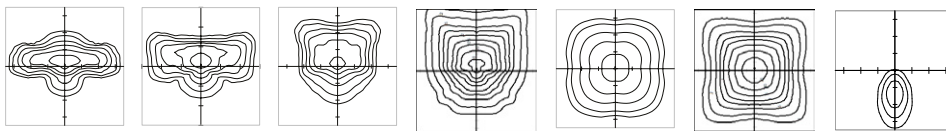
ORX-3/128L

ORX-3/144L

OPTICS

Silicone optics high photothermal stability and light output provides higher powered LEDs with minimized lumen depreciation LED life. UV and thermal stability with scratch resistance increases exterior application durability.

IES DISTRIBUTIONS



TYPE II (T2)

TYPE III (T3)

TYPE IV (T4)

TYPE IV FORWARD (T4FTW)

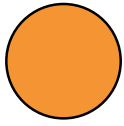
TYPE V (T5)

TYPE V WIDE (T5W)

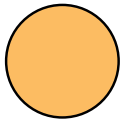
NEMA 3 (N3)

PRODUCT SPECIFICATIONS

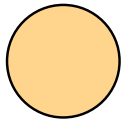
LED KELVIN RANGE



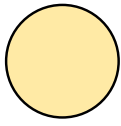
AMBER
585-600 nm



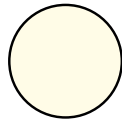
2700K 70 CRI



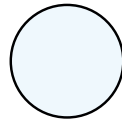
3000K 70 CRI



3500K 80 CRI



4000K 70 CRI



5000K 70 CRI

LUMEN MAINTENANCE DATA

Ambient Temperature	Drive Current	L90 Hours*	L70 Hours**	30,000 Hours*	50,000 Hours*	60,000 Hours*	100,000 Hours**
25°C	Up to 700mA	58,000	173,000	95.7%	91.6%	89.6%	82.1%
	1050mA	48,000	143,000	94.3%	89.5%	87.2%	78.5%

*Reported extrapolations per IESNA TM-21 **Projected extrapolations per IESNA TM-21

LENS MULTIPLIERS

MULTIPLIERS FOR 70/80/90 CRI (SCALING FROM 5000K, 70 CRI)

CCT	70 CRI	80 CRI	90 CRI
2700K	0.840	0.737	0.609
3000K	0.975	0.776	0.640
3500K	0.890	0.800	0.659
4000K	1.000	0.815	0.679
5000K	1.000	0.830	0.710

Performance Plus Solution

What is "Performance Plus"?

Light Pattern Optimization + Lumen Maintenance Longevity + High Efficacy + Visual Comfort

Performance Plus solutions combine Performance Silicone Micro Optics with maximum LED count at lower drive currents. This strategy enhances luminaire efficiency, visual comfort, and the reduced maintenance costs already associated with NLS's Performance Silicone Micro Optics. It can also deliver an additional 20% in savings for both new construction and retrofit projects.

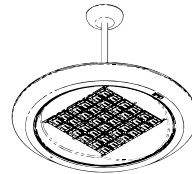
T4FTW



T5W



+



= Performance Plus

Performance Series Silicone Micro Optics

Maximum LED Count at Lower Drive Current

Do More With Less

New Construction:

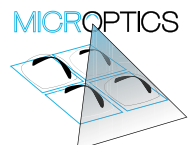
Saves tens-to-hundreds of thousands of dollars in upfront project cost

Performance Silicone Micro Optics save end users thousands in material and installation costs by reducing the fixtures by an average of 15%. Efficient and precise Performance Silicone Micro Optics materially improve fixture spacing without sacrificing light levels.

Retrofit:

Saves tens-to-hundreds of thousands of dollars in project life cycle energy

Performance Silicone Micro Optics provide substantial energy savings, while markedly outperforming industry benchmarks for light output depreciation and illumination quality.



PRODUCT SPECIFICATIONS

LUMEN CHARTS

LUMEN CHART AMBER WITH T3DL					
PART NUMBER	T3DL	LPW	WATTAGE	BUG	MULTIPLIER FOR 50K7 GOING TO AMBER
ORX-3-CM-80L-35-AMBER	3442	59	58	B1-U0-G1	0.3710
ORX-3-CM-80L-53-AMBER	4373	49	89	B1-U0-G1	0.3113
ORX-3-CM-96L-35-AMBER	4130	59	70	B1-U0-G1	0.3710
ORX-3-CM-96L-53-AMBER	5248	43	123	B1-U0-G1	0.3113
ORX-3-CM-128L-35-AMBER	5507	51	109	B1-U0-G1	0.3710
ORX-3-CM-128L-53-AMBER	7582	46	166	B2-U0-G2	0.3373
ORX-3-CM-144L-35-AMBER	6196	53	118	B2-U0-G2	0.3710
ORX-3-CM-144L-53-AMBER	8274	44	189	B2-U0-G2	0.3272

LUMEN CHART AMBER WITH TE					
PART NUMBER	TE	LPW	WATTAGE	BUG	MULTIPLIER FOR 50K7 GOING TO AMBER
ORX-3-CM-80L-35-AMBER	3492	60	58	B1-U0-G1	0.3710
ORX-3-CM-80L-53-AMBER	4437	50	89	B1-U0-G1	0.3113
ORX-3-CM-96L-35-AMBER	4190	60	70	B1-U0-G1	0.3710
ORX-3-CM-96L-53-AMBER	5324	43	123	B1-U0-G1	0.3113
ORX-3-CM-128L-35-AMBER	5587	51	109	B1-U0-G1	0.3710
ORX-3-CM-128L-53-AMBER	7692	46	166	B2-U0-G2	0.3373
ORX-3-CM-144L-35-AMBER	6285	53	118	B1-U0-G1	0.3710
ORX-3-CM-144L-53-AMBER	8394	44	189	B2-U0-G2	0.3272

LUMEN CHART AMBER WITH T4FTW					
PART NUMBER	T4FTW	LPW	WATTAGE	BUG	MULTIPLIER FOR 50K7 GOING TO AMBER
ORX-3-CM-80L-35-AMBER	3942	68	58	B1-U0-G2	0.3710
ORX-3-CM-80L-53-AMBER	4816	54	89	B1-U0-G2	0.3113
ORX-3-CM-96L-35-AMBER	4638	66	70	B1-U0-G2	0.3710
ORX-3-CM-96L-53-AMBER	5483	45	123	B1-U0-G2	0.3113
ORX-3-CM-128L-35-AMBER	6225	57	109	B1-U0-G2	0.3710
ORX-3-CM-128L-53-AMBER	8118	49	166	B2-U0-G3	0.3373
ORX-3-CM-144L-35-AMBER	6678	56	119	B1-U0-G2	0.3710
ORX-3-CM-144L-53-AMBER	8467	45	190	B2-U0-G3	0.3272

LUMEN CHART AMBER WITH T5W					
PART NUMBER	T5W	LPW	WATTAGE	BUG	MULTIPLIER FOR 50K7 GOING TO AMBER
ORX-3-CM-80L-35-AMBER	4289	74	58	B3-U0-G1	0.3710
ORX-3-CM-80L-53-AMBER	5585	63	89	B3-U0-G2	0.3113
ORX-3-CM-96L-35-AMBER	4934	70	70	B3-U0-G1	0.3710
ORX-3-CM-96L-53-AMBER	6220	51	123	B3-U0-G2	0.3113
ORX-3-CM-128L-35-AMBER	6539	60	109	B3-U0-G2	0.3710
ORX-3-CM-128L-53-AMBER	9124	55	166	B4-U0-G2	0.3373
ORX-3-CM-144L-35-AMBER	7902	66	119	B3-U0-G2	0.3710
ORX-3-CM-144L-53-AMBER	10696	56	190	B4-U0-G2	0.3272

PRODUCT SPECIFICATIONS

LUMEN CHARTS

ORX-3-CM-80L NO LENS

LUMEN CHART STANDARD SILICONE MICRO OPTICS

PART NUMBER	TE	LPW	T3DL	LPW	T4M	LPW	T5	LPW	WATTAGE
ORX-3-CM-80L-35-27K7	8057	92	7942	90	7895	90	8130	92	88
ORX-3-CM-80L-35-27K8	7545	86	7437	85	7393	84	7613	87	88
ORX-3-CM-80L-35-30K7	8711	99	8587	98	8536	97	8790	100	88
ORX-3-CM-80L-35-30K8	8090	92	7975	91	7927	90	8163	93	88
ORX-3-CM-80L-35-35K8	8090	92	7975	91	7927	90	8163	93	88
ORX-3-CM-80L-35-40K7	9412	107	9278	105	9223	105	9497	108	88
ORX-3-CM-80L-35-40K8	8712	99	8588	98	8537	97	8791	100	88
ORX-3-CM-80L-35-50K7	9412	107	9278	105	9223	105	9497	108	88
ORX-3-CM-80L-35-50K8	8712	99	8588	98	8537	97	8791	100	88
ORX-3-CM-80L-53-27K7	12200	92	12026	90	11955	90	12311	93	133
ORX-3-CM-80L-53-27K8	11425	86	11262	85	11195	84	11529	87	133
ORX-3-CM-80L-53-30K7	13190	99	13002	98	12926	97	13310	100	133
ORX-3-CM-80L-53-30K8	12249	92	12075	91	12004	90	12361	93	133
ORX-3-CM-80L-53-35K8	12249	92	12075	91	12004	90	12361	93	133
ORX-3-CM-80L-53-40K7	14252	107	14049	106	13966	105	14382	108	133
ORX-3-CM-80L-53-40K8	13192	99	13004	98	12927	97	13312	100	133
ORX-3-CM-80L-53-50K7	14252	107	14049	106	13966	105	14382	108	133
ORX-3-CM-80L-53-50K8	13192	99	13004	98	12927	97	13312	100	133
ORX-3-CM-80L-7-27K7	16113	92	15883	90	15790	90	16260	92	176
ORX-3-CM-80L-7-27K8	15089	86	14874	85	14787	84	15227	87	176
ORX-3-CM-80L-7-30K7	17421	99	17173	98	17072	97	17580	100	176
ORX-3-CM-80L-7-30K8	16179	92	15948	91	15854	90	16326	93	176
ORX-3-CM-80L-7-35K8	16179	92	15948	91	15854	90	16326	93	176
ORX-3-CM-80L-7-40K7	18824	107	18555	105	18446	105	18995	108	176
ORX-3-CM-80L-7-40K8	17424	99	17175	98	17074	97	17582	100	176
ORX-3-CM-80L-7-50K7	18824	107	18555	105	18446	105	18995	108	176
ORX-3-CM-80L-7-50K8	17424	99	17175	98	17074	97	17582	100	176
ORX-3-CM-80L-1-27K7	23019	92	22691	90	22556	90	23228	93	251
ORX-3-CM-80L-1-27K8	21556	86	21249	85	21123	84	21752	87	251
ORX-3-CM-80L-1-30K7	24888	99	24533	98	24388	97	25114	100	251
ORX-3-CM-80L-1-30K8	23113	92	22783	91	22649	90	23323	93	251
ORX-3-CM-80L-1-35K8	23113	92	22783	91	22649	90	23323	93	251
ORX-3-CM-80L-1-40K7	26891	107	26508	106	26351	105	27136	108	251
ORX-3-CM-80L-1-40K8	24891	99	24536	98	24391	97	25118	100	251
ORX-3-CM-80L-1-50K7	26891	107	26508	106	26351	105	27136	108	251
ORX-3-CM-80L-1-50K8	24891	99	24536	98	24391	97	25118	100	251

LUMEN CHART PERFORMANCE SILICONE MICRO OPTICS

PART NUMBER	T4FTW	LPW	T5W	LPW	WATTAGE
ORX-3-CM-80L-35-27K7	9095	107	9895	116	85
ORX-3-CM-80L-35-27K8	8517	100	9266	109	85
ORX-3-CM-80L-35-30K7	9833	116	10699	126	85
ORX-3-CM-80L-35-30K8	9132	107	9936	117	85
ORX-3-CM-80L-35-35K8	9132	107	9936	117	85
ORX-3-CM-80L-35-40K7	10625	125	11560	136	85
ORX-3-CM-80L-35-40K8	9835	116	10700	126	85
ORX-3-CM-80L-35-50K7	10625	125	11560	136	85
ORX-3-CM-80L-35-50K8	9835	116	10700	126	85
ORX-3-CM-80L-53-27K7	13242	102	15357	118	130
ORX-3-CM-80L-53-27K8	12400	95	14381	111	130
ORX-3-CM-80L-53-30K7	14317	110	16603	128	130
ORX-3-CM-80L-53-30K8	13296	102	15419	119	130
ORX-3-CM-80L-53-35K8	13296	102	15419	119	130
ORX-3-CM-80L-53-40K7	15470	119	17940	138	130
ORX-3-CM-80L-53-40K8	14319	110	16606	128	130
ORX-3-CM-80L-53-50K7	15470	119	17940	138	130
ORX-3-CM-80L-53-50K8	14319	110	16606	128	130
ORX-3-CM-80L-7-27K7	16444	97	18772	110	170
ORX-3-CM-80L-7-27K8	15399	91	17579	103	170
ORX-3-CM-80L-7-30K7	17779	105	20296	119	170
ORX-3-CM-80L-7-30K8	16511	97	18848	111	170
ORX-3-CM-80L-7-35K8	16511	97	18848	111	170
ORX-3-CM-80L-7-40K7	19210	113	21930	129	170
ORX-3-CM-80L-7-40K8	17781	105	20299	119	170
ORX-3-CM-80L-7-50K7	19210	113	21930	129	170
ORX-3-CM-80L-7-50K8	17781	105	20299	119	170
ORX-3-CM-80L-1-27K7	24095	95	25610	101	254
ORX-3-CM-80L-1-27K8	22564	89	23982	94	254
ORX-3-CM-80L-1-30K7	26051	103	27689	109	254
ORX-3-CM-80L-1-30K8	24193	95	25714	101	254
ORX-3-CM-80L-1-35K8	24193	95	25714	101	254
ORX-3-CM-80L-1-40K7	28148	111	29918	118	254
ORX-3-CM-80L-1-40K8	26054	103	27693	109	254
ORX-3-CM-80L-1-50K7	28148	111	29918	118	254
ORX-3-CM-80L-1-50K8	26054	103	27693	109	254



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PRODUCT SPECIFICATIONS

ORX-3-CM-96L NO LENS

LUMEN CHART STANDARD SILICONE MICRO OPTICS

PART NUMBER	TE	LPW	T3DL	LPW	T4M	LPW	T5	LPW	WATTAGE
ORX-3-CM-96L-35-27K7	9668	92	9530	91	9474	90	9756	93	105
ORX-3-CM-96L-35-27K8	9054	86	8924	85	8872	84	9136	87	105
ORX-3-CM-96L-35-30K7	10453	100	10304	98	10243	98	10548	100	105
ORX-3-CM-96L-35-30K8	9707	92	9569	91	9512	91	9796	93	105
ORX-3-CM-96L-35-35K8	9707	92	9569	91	9512	91	9796	93	105
ORX-3-CM-96L-35-40K7	11294	108	11133	106	11067	105	11397	109	105
ORX-3-CM-96L-35-40K8	10454	100	10305	98	10244	98	10549	100	105
ORX-3-CM-96L-35-50K7	11294	108	11133	106	11067	105	11397	109	105
ORX-3-CM-96L-35-50K8	10454	100	10305	98	10244	98	10549	100	105
ORX-3-CM-96L-53-27K7	14640	92	14431	90	14346	90	14773	92	160
ORX-3-CM-96L-53-27K8	13710	86	13514	84	13434	84	13834	86	160
ORX-3-CM-96L-53-30K7	15829	99	15603	98	15511	97	15972	100	160
ORX-3-CM-96L-53-30K8	14700	92	14490	91	14405	90	14833	93	160
ORX-3-CM-96L-53-35K8	14700	92	14490	91	14405	90	14833	93	160
ORX-3-CM-96L-53-40K7	17103	107	16859	105	16759	105	17258	108	160
ORX-3-CM-96L-53-40K8	15831	99	15605	98	15512	97	15974	100	160
ORX-3-CM-96L-53-50K7	17103	107	16859	105	16759	105	17258	108	160
ORX-3-CM-96L-53-50K8	15831	99	15605	98	15512	97	15974	100	160
ORX-3-CM-96L-7-27K7	19336	92	19060	90	18947	90	19511	92	211
ORX-3-CM-96L-7-27K8	18107	86	17849	85	17743	84	18271	87	211
ORX-3-CM-96L-7-30K7	20906	99	20608	98	20486	97	21096	100	211
ORX-3-CM-96L-7-30K8	19415	92	19138	91	19025	90	19591	93	211
ORX-3-CM-96L-7-35K8	19415	92	19138	91	19025	90	19591	93	211
ORX-3-CM-96L-7-40K7	22589	107	22267	106	22135	105	22794	108	211
ORX-3-CM-96L-7-40K8	20909	99	20611	98	20489	97	21098	100	211
ORX-3-CM-96L-7-50K7	22589	107	22267	106	22135	105	22794	108	211
ORX-3-CM-96L-7-50K8	20909	99	20611	98	20489	97	21098	100	211
ORX-3-CM-96L-1-27K7	27622	92	27229	90	27068	90	27874	93	301
ORX-3-CM-96L-1-27K8	25867	86	25499	85	25348	84	26103	87	301
ORX-3-CM-96L-1-30K7	29865	99	29440	98	29266	97	30137	100	301
ORX-3-CM-96L-1-30K8	27735	92	27340	91	27179	90	27988	93	301
ORX-3-CM-96L-1-35K8	27735	92	27340	91	27179	90	27988	93	301
ORX-3-CM-96L-1-40K7	32269	107	31809	106	31621	105	32563	108	301
ORX-3-CM-96L-1-40K8	29869	99	29443	98	29269	97	30141	100	301
ORX-3-CM-96L-1-50K7	32269	107	31809	106	31621	105	32563	108	301
ORX-3-CM-96L-1-50K8	29869	99	29443	98	29269	97	30141	100	301

LUMEN CHART PERFORMANCE SILICONE MICRO OPTICS

PART NUMBER	T4FTW	LPW	T5W	LPW	WATTAGE
ORX-3-CM-96L-35-27K7	10700	107	11385	114	100
ORX-3-CM-96L-35-27K8	10020	100	10661	107	100
ORX-3-CM-96L-35-30K7	11569	116	12309	123	100
ORX-3-CM-96L-35-30K8	10744	107	11431	114	100
ORX-3-CM-96L-35-35K8	10744	107	11431	114	100
ORX-3-CM-96L-35-40K7	12500	125	13300	133	100
ORX-3-CM-96L-35-40K8	11570	116	12311	123	100
ORX-3-CM-96L-35-50K7	12500	125	13300	133	100
ORX-3-CM-96L-35-50K8	11570	116	12311	123	100
ORX-3-CM-96L-53-27K7	15076	102	17103	116	148
ORX-3-CM-96L-53-27K8	14118	95	16016	108	148
ORX-3-CM-96L-53-30K7	16300	110	18491	125	148
ORX-3-CM-96L-53-30K8	15137	102	17172	116	148
ORX-3-CM-96L-53-35K8	15137	102	17172	116	148
ORX-3-CM-96L-53-40K7	17612	119	19980	135	148
ORX-3-CM-96L-53-40K8	16302	110	18494	125	148
ORX-3-CM-96L-53-50K7	17612	119	19980	135	148
ORX-3-CM-96L-53-50K8	16302	110	18494	125	148
ORX-3-CM-96L-7-27K7	18862	97	21199	109	195
ORX-3-CM-96L-7-27K8	17663	91	19852	102	195
ORX-3-CM-96L-7-30K7	20393	105	22920	118	195
ORX-3-CM-96L-7-30K8	18939	97	21285	109	195
ORX-3-CM-96L-7-35K8	18939	97	21285	109	195
ORX-3-CM-96L-7-40K7	22035	113	24765	127	195
ORX-3-CM-96L-7-40K8	20396	105	22923	118	195
ORX-3-CM-96L-7-50K7	22035	113	24765	127	195
ORX-3-CM-96L-7-50K8	20396	105	22923	118	195
ORX-3-CM-96L-1-27K7	27537	95	28918	100	290
ORX-3-CM-96L-1-27K8	25787	89	27080	93	290
ORX-3-CM-96L-1-30K7	29772	103	31266	108	290
ORX-3-CM-96L-1-30K8	27649	95	29036	100	290
ORX-3-CM-96L-1-35K8	27649	95	29036	100	290
ORX-3-CM-96L-1-40K7	32169	111	33783	116	290
ORX-3-CM-96L-1-40K8	29776	103	31270	108	290
ORX-3-CM-96L-1-50K7	32169	111	33783	116	290
ORX-3-CM-96L-1-50K8	29776	103	31270	108	290



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PRODUCT SPECIFICATIONS

ORX-3-CM-128L NO LENS

LUMEN CHART STANDARD SILICONE MICRO OPTICS

PART NUMBER	TE	LPW	T3DL	LPW	T4M	LPW	T5	LPW	WATTAGE
ORX-3-CM-128L-35-27K7	12890	91	12707	90	12632	90	13008	92	141
ORX-3-CM-128L-35-27K8	12071	86	11899	84	11829	84	12181	86	141
ORX-3-CM-128L-35-30K7	13937	99	13738	97	13657	97	14064	100	141
ORX-3-CM-128L-35-30K8	12943	92	12758	90	12683	90	13061	93	141
ORX-3-CM-128L-35-35K8	12943	92	12758	90	12683	90	13061	93	141
ORX-3-CM-128L-35-40K7	15059	107	14844	105	14757	105	15196	108	141
ORX-3-CM-128L-35-40K8	13939	99	13740	97	13659	97	14066	100	141
ORX-3-CM-128L-35-50K7	15059	107	14844	105	14757	105	15196	108	141
ORX-3-CM-128L-35-50K8	13939	99	13740	97	13659	97	14066	100	141
ORX-3-CM-128L-53-27K7	19520	92	19242	90	19128	90	19697	92	213
ORX-3-CM-128L-53-27K8	18279	86	18019	85	17912	84	18445	87	213
ORX-3-CM-128L-53-30K7	21105	99	20804	98	20681	97	21297	100	213
ORX-3-CM-128L-53-30K8	19600	92	19320	91	19206	90	19778	93	213
ORX-3-CM-128L-53-35K8	19600	92	19320	91	19206	90	19778	93	213
ORX-3-CM-128L-53-40K7	22804	107	22479	106	22346	105	23011	108	213
ORX-3-CM-128L-53-40K8	21108	99	20807	98	20684	97	21299	100	213
ORX-3-CM-128L-53-50K7	22804	107	22479	106	22346	105	23011	108	213
ORX-3-CM-128L-53-50K8	21108	99	20807	98	20684	97	21299	100	213
ORX-3-CM-128L-7-27K7	25781	92	25413	90	25263	90	26015	93	281
ORX-3-CM-128L-7-27K8	24143	86	23798	85	23657	84	24362	87	281
ORX-3-CM-128L-7-30K7	27874	99	27477	98	27315	97	28128	100	281
ORX-3-CM-128L-7-30K8	25886	92	25517	91	25367	90	26122	93	281
ORX-3-CM-128L-7-35K8	25886	92	25517	91	25367	90	26122	93	281
ORX-3-CM-128L-7-40K7	30118	107	29689	106	29513	105	30392	108	281
ORX-3-CM-128L-7-40K8	27878	99	27481	98	27318	97	28131	100	281
ORX-3-CM-128L-7-50K7	30118	107	29689	106	29513	105	30392	108	281
ORX-3-CM-128L-7-50K8	27878	99	27481	98	27318	97	28131	100	281
ORX-3-CM-128L-1-27K7	36830	92	36305	90	36090	90	37165	92	402
ORX-3-CM-128L-1-27K8	34489	86	33998	85	33796	84	34803	87	402
ORX-3-CM-128L-1-30K7	39820	99	39253	98	39021	97	40182	100	402
ORX-3-CM-128L-1-30K8	36980	92	36453	91	36238	90	37316	93	402
ORX-3-CM-128L-1-35K8	36980	92	36453	91	36238	90	37316	93	402
ORX-3-CM-128L-1-40K7	43026	107	42412	106	42162	105	43417	108	402
ORX-3-CM-128L-1-40K8	39826	99	39257	98	39026	97	40187	100	402
ORX-3-CM-128L-1-50K7	43026	107	42412	106	42162	105	43417	108	402
ORX-3-CM-128L-1-50K8	39826	99	39257	98	39026	97	40187	100	402

LUMEN CHART PERFORMANCE SILICONE MICRO OPTICS

PART NUMBER	T4FTW	LPW	T5W	LPW	WATTAGE
ORX-3-CM-128L-35-27K7	14363	102	15087	107	141
ORX-3-CM-128L-35-27K8	13450	95	14128	100	141
ORX-3-CM-128L-35-30K7	15529	110	16312	116	141
ORX-3-CM-128L-35-30K8	14421	102	15149	107	141
ORX-3-CM-128L-35-35K8	14421	102	15149	107	141
ORX-3-CM-128L-35-40K7	16779	119	17625	125	141
ORX-3-CM-128L-35-40K8	15531	110	16314	116	141
ORX-3-CM-128L-35-50K7	16779	119	17625	125	141
ORX-3-CM-128L-35-50K8	15531	110	16314	116	141
ORX-3-CM-128L-53-27K7	20603	97	23156	109	213
ORX-3-CM-128L-53-27K8	19294	91	21684	102	213
ORX-3-CM-128L-53-30K7	22276	105	25036	118	213
ORX-3-CM-128L-53-30K8	20687	97	23250	109	213
ORX-3-CM-128L-53-35K8	20687	97	23250	109	213
ORX-3-CM-128L-53-40K7	24069	113	27051	127	213
ORX-3-CM-128L-53-40K8	22279	105	25039	118	213
ORX-3-CM-128L-53-50K7	24069	113	27051	127	213
ORX-3-CM-128L-53-50K8	22279	105	25039	118	213
ORX-3-CM-128L-7-27K7	25737	92	28624	102	281
ORX-3-CM-128L-7-27K8	24101	86	26805	95	281
ORX-3-CM-128L-7-30K7	27827	99	30948	110	281
ORX-3-CM-128L-7-30K8	25842	92	28741	102	281
ORX-3-CM-128L-7-35K8	25842	92	28741	102	281
ORX-3-CM-128L-7-40K7	30067	107	33439	119	281
ORX-3-CM-128L-7-40K8	27830	99	30952	110	281
ORX-3-CM-128L-7-50K7	30067	107	33439	119	281
ORX-3-CM-128L-7-50K8	27830	99	30952	110	281
ORX-3-CM-128L-1-27K7	36181	90	37445	93	402
ORX-3-CM-128L-1-27K8	33882	84	35065	87	402
ORX-3-CM-128L-1-30K7	39119	97	40485	101	402
ORX-3-CM-128L-1-30K8	36329	90	37598	94	402
ORX-3-CM-128L-1-35K8	36329	90	37598	94	402
ORX-3-CM-128L-1-40K7	42268	105	43744	109	402
ORX-3-CM-128L-1-40K8	39124	97	40490	101	402
ORX-3-CM-128L-1-50K7	42268	105	43744	109	402
ORX-3-CM-128L-1-50K8	39124	97	40490	101	402



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PRODUCT SPECIFICATIONS

ORX-3-CM-144L NO LENS

LUMEN CHART STANDARD SILICONE MICRO OPTICS

PART NUMBER	TE	LPW	T3DL	LPW	T4M	LPW	T5	LPW	WATTAGE
ORX-3-CM-144L-35-27K7	14502	92	14295	90	14211	90	14634	93	158
ORX-3-CM-144L-35-27K8	13580	86	13387	85	13308	84	13704	87	158
ORX-3-CM-144L-35-30K7	15679	99	15456	98	15364	97	15822	100	158
ORX-3-CM-144L-35-30K8	14561	92	14354	91	14268	90	14694	93	158
ORX-3-CM-144L-35-35K8	14561	92	14354	91	14268	90	14694	93	158
ORX-3-CM-144L-35-40K7	16941	107	16700	106	16601	105	17095	108	158
ORX-3-CM-144L-35-40K8	15681	99	15458	98	15366	97	15823	100	158
ORX-3-CM-144L-35-50K7	16941	107	16700	106	16601	105	17095	108	158
ORX-3-CM-144L-35-50K8	15681	99	15458	98	15366	97	15823	100	158
ORX-3-CM-144L-53-27K7	21960	92	21647	90	21519	90	22159	92	240
ORX-3-CM-144L-53-27K8	20564	86	20271	84	20151	84	20751	86	240
ORX-3-CM-144L-53-30K7	23743	99	23404	98	23266	97	23959	100	240
ORX-3-CM-144L-53-30K8	22050	92	21735	91	21607	90	22250	93	240
ORX-3-CM-144L-53-35K8	22050	92	21735	91	21607	90	22250	93	240
ORX-3-CM-144L-53-40K7	25654	107	25288	105	25139	105	25887	108	240
ORX-3-CM-144L-53-40K8	23746	99	23407	98	23269	97	23961	100	240
ORX-3-CM-144L-53-50K7	25654	107	25288	105	25139	105	25887	108	240
ORX-3-CM-144L-53-50K8	23746	99	23407	98	23269	97	23961	100	240
ORX-3-CM-144L-7-27K7	29004	92	28590	90	28421	90	29267	93	316
ORX-3-CM-144L-7-27K8	27161	86	26773	85	26615	84	27407	87	316
ORX-3-CM-144L-7-30K7	31359	99	30912	98	30729	97	31644	100	316
ORX-3-CM-144L-7-30K8	29122	92	28707	91	28537	90	29387	93	316
ORX-3-CM-144L-7-35K8	29122	92	28707	91	28537	90	29387	93	316
ORX-3-CM-144L-7-40K7	33883	107	33400	106	33202	105	34191	108	316
ORX-3-CM-144L-7-40K8	31363	99	30916	98	30732	97	31648	100	316
ORX-3-CM-144L-7-50K7	33883	107	33400	106	33202	105	34191	108	316
ORX-3-CM-144L-7-50K8	31363	99	30916	98	30732	97	31648	100	316
ORX-3-CM-144L-1A-27K7	41434	92	40843	90	40602	90	41810	93	452
ORX-3-CM-144L-1A-27K8	38801	86	38247	85	38022	84	39153	87	452
ORX-3-CM-144L-1A-30K7	44798	99	44159	98	43898	97	45205	100	452
ORX-3-CM-144L-1A-30K8	41603	92	41010	91	40767	90	41981	93	452
ORX-3-CM-144L-1A-35K8	41603	92	41010	91	40767	90	41981	93	452
ORX-3-CM-144L-1A-40K7	48404	107	47714	106	47432	105	48844	108	452
ORX-3-CM-144L-1A-40K8	44804	99	44165	98	43904	97	45211	100	452
ORX-3-CM-144L-1A-50K7	48404	107	47714	106	47432	105	48844	108	452
ORX-3-CM-144L-1A-50K8	44804	99	44165	98	43904	97	45211	100	452

LUMEN CHART PERFORMANCE SILICONE MICRO OPTICS

PART NUMBER	T4FTW	LPW	T5W	LPW	WATTAGE
ORX-3-CM-144L-35-27K7	15408	103	18233	122	150
ORX-3-CM-144L-35-27K8	14429	96	17074	114	150
ORX-3-CM-144L-35-30K7	16659	111	19713	131	150
ORX-3-CM-144L-35-30K8	15471	103	18307	122	150
ORX-3-CM-144L-35-35K8	15471	103	18307	122	150
ORX-3-CM-144L-35-40K7	18000	120	21300	142	150
ORX-3-CM-144L-35-40K8	16661	111	19716	131	150
ORX-3-CM-144L-35-50K7	18000	120	21300	142	150
ORX-3-CM-144L-35-50K8	16661	111	19716	131	150
ORX-3-CM-144L-53-27K7	22152	98	27981	123	227
ORX-3-CM-144L-53-27K8	20744	91	26203	115	227
ORX-3-CM-144L-53-30K7	23950	106	30253	133	227
ORX-3-CM-144L-53-30K8	22242	98	28095	124	227
ORX-3-CM-144L-53-35K8	22242	98	28095	124	227
ORX-3-CM-144L-53-40K7	25878	114	32688	144	227
ORX-3-CM-144L-53-40K8	23953	106	30257	133	227
ORX-3-CM-144L-53-50K7	25878	114	32688	144	227
ORX-3-CM-144L-53-50K8	23953	106	30257	133	227
ORX-3-CM-144L-7-27K7	27734	92	34925	116	300
ORX-3-CM-144L-7-27K8	25971	87	32705	109	300
ORX-3-CM-144L-7-30K7	29986	100	37760	126	300
ORX-3-CM-144L-7-30K8	27847	93	35067	117	300
ORX-3-CM-144L-7-35K8	27847	93	35067	117	300
ORX-3-CM-144L-7-40K7	32400	108	40800	136	300
ORX-3-CM-144L-7-40K8	29990	100	37765	126	300
ORX-3-CM-144L-7-50K7	32400	108	40800	136	300
ORX-3-CM-144L-7-50K8	29990	100	37765	126	300
ORX-3-CM-144L-1A-27K7	38766	91	45393	106	428
ORX-3-CM-144L-1A-27K8	36302	85	42508	99	428
ORX-3-CM-144L-1A-30K7	41913	98	49078	115	428
ORX-3-CM-144L-1A-30K8	38924	91	45578	106	428
ORX-3-CM-144L-1A-35K8	38924	91	45578	106	428
ORX-3-CM-144L-1A-40K7	45287	106	53029	124	428
ORX-3-CM-144L-1A-40K8	41918	98	49084	115	428
ORX-3-CM-144L-1A-50K7	45287	106	53029	124	428
ORX-3-CM-144L-1A-50K8	41918	98	49084	115	428



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PRODUCT SPECIFICATIONS

ORX-3-CM-80L LENSED

LUMEN CHART PERFORMANCE SILICONE MICRO OPTICS					
PART NUMBER	T4FTW CTG	LPW	T5W CTG	LPW	WATTAGE
ORX-3-CM-80L-35-27K7	7731	91	8411	99	85
ORX-3-CM-80L-35-27K8	7240	85	7876	93	85
ORX-3-CM-80L-35-30K7	8358	98	9094	107	85
ORX-3-CM-80L-35-30K8	7762	91	8445	99	85
ORX-3-CM-80L-35-35K8	7762	91	8445	99	85
ORX-3-CM-80L-35-40K7	9031	106	9826	116	85
ORX-3-CM-80L-35-40K8	8359	98	9095	107	85
ORX-3-CM-80L-35-50K7	9031	106	9826	116	85
ORX-3-CM-80L-35-50K8	8359	98	9095	107	85
ORX-3-CM-80L-53-27K7	11256	87	13053	100	130
ORX-3-CM-80L-53-27K8	10541	81	12223	94	130
ORX-3-CM-80L-53-30K7	12170	94	14113	109	130
ORX-3-CM-80L-53-30K8	11302	87	13106	101	130
ORX-3-CM-80L-53-35K8	11302	87	13106	101	130
ORX-3-CM-80L-53-40K7	13150	101	15249	117	130
ORX-3-CM-80L-53-40K8	12172	94	14115	109	130
ORX-3-CM-80L-53-50K7	13150	101	15249	117	130
ORX-3-CM-80L-53-50K8	12172	94	14115	109	130
ORX-3-CM-80L-7-27K7	13977	82	15956	94	170
ORX-3-CM-80L-7-27K8	13089	77	14942	88	170
ORX-3-CM-80L-7-30K7	15112	89	17252	101	170
ORX-3-CM-80L-7-30K8	14034	83	16022	94	170
ORX-3-CM-80L-7-35K8	14034	83	16022	94	170
ORX-3-CM-80L-7-40K7	16329	96	18641	110	170
ORX-3-CM-80L-7-40K8	15114	89	17254	101	170
ORX-3-CM-80L-7-50K7	16329	96	18641	110	170
ORX-3-CM-80L-7-50K8	15114	89	17254	101	170

PRODUCT SPECIFICATIONS

ORX-3-CM-96L LENSED

LUMEN CHART PERFORMANCE SILICONE MICRO OPTICS					
PART NUMBER	T4FTW CTG	LPW	T5W CTG	LPW	WATTAGE
ORX-3-CM-96L-35-27K7	9095	91	9677	97	100
ORX-3-CM-96L-35-27K8	8517	85	9062	91	100
ORX-3-CM-96L-35-30K7	9833	98	10463	105	100
ORX-3-CM-96L-35-30K8	9132	91	9717	97	100
ORX-3-CM-96L-35-35K8	9132	91	9717	97	100
ORX-3-CM-96L-35-40K7	10625	106	11305	113	100
ORX-3-CM-96L-35-40K8	9835	98	10464	105	100
ORX-3-CM-96L-35-50K7	10625	106	11305	113	100
ORX-3-CM-96L-35-50K8	9835	98	10464	105	100
ORX-3-CM-96L-53-27K7	12814	87	14537	98	148
ORX-3-CM-96L-53-27K8	12000	81	13613	92	148
ORX-3-CM-96L-53-30K7	13855	94	15718	106	148
ORX-3-CM-96L-53-30K8	12867	87	14597	99	148
ORX-3-CM-96L-53-35K8	12867	87	14597	99	148
ORX-3-CM-96L-53-40K7	14970	101	16983	115	148
ORX-3-CM-96L-53-40K8	13856	94	15720	106	148
ORX-3-CM-96L-53-50K7	14970	101	16983	115	148
ORX-3-CM-96L-53-50K8	13856	94	15720	106	148
ORX-3-CM-96L-7-27K7	16033	82	18019	92	195
ORX-3-CM-96L-7-27K8	15014	77	16874	87	195
ORX-3-CM-96L-7-30K7	17334	89	19482	100	195
ORX-3-CM-96L-7-30K8	16098	83	18093	93	195
ORX-3-CM-96L-7-35K8	16098	83	18093	93	195
ORX-3-CM-96L-7-40K7	18730	96	21050	108	195
ORX-3-CM-96L-7-40K8	17337	89	19484	100	195
ORX-3-CM-96L-7-50K7	18730	96	21050	108	195
ORX-3-CM-96L-7-50K8	17337	89	19484	100	195

PRODUCT SPECIFICATIONS

ORX-3-CM-128L LENSED

LUMEN CHART PERFORMANCE SILICONE MICRO OPTICS					
PART NUMBER	T4FTW CTG	LPW	T5W CTG	LPW	WATTAGE
ORX-3-CM-128L-35-27K7	12208	87	12824	91	141
ORX-3-CM-128L-35-27K8	11432	81	12009	85	141
ORX-3-CM-128L-35-30K7	13200	94	13865	98	141
ORX-3-CM-128L-35-30K8	12259	87	12876	91	141
ORX-3-CM-128L-35-35K8	12259	87	12876	91	141
ORX-3-CM-128L-35-40K7	14262	101	14981	106	141
ORX-3-CM-128L-35-40K8	13201	94	13867	98	141
ORX-3-CM-128L-35-50K7	14262	101	14981	106	141
ORX-3-CM-128L-35-50K8	13201	94	13867	98	141
ORX-3-CM-128L-53-27K7	17513	82	19682	92	213
ORX-3-CM-128L-53-27K8	16400	77	18431	87	213
ORX-3-CM-128L-53-30K7	18934	89	21280	100	213
ORX-3-CM-128L-53-30K8	17584	83	19762	93	213
ORX-3-CM-128L-53-35K8	17584	83	19762	93	213
ORX-3-CM-128L-53-40K7	20459	96	22993	108	213
ORX-3-CM-128L-53-40K8	18937	89	21283	100	213
ORX-3-CM-128L-53-50K7	20459	96	22993	108	213
ORX-3-CM-128L-53-50K8	18937	89	21283	100	213
ORX-3-CM-128L-7-27K7	21877	78	24330	87	281
ORX-3-CM-128L-7-27K8	20487	73	22784	81	281
ORX-3-CM-128L-7-30K7	23653	84	26306	94	281
ORX-3-CM-128L-7-30K8	21966	78	24430	87	281
ORX-3-CM-128L-7-35K8	21966	78	24430	87	281
ORX-3-CM-128L-7-40K7	25557	91	28423	101	281
ORX-3-CM-128L-7-40K8	23656	84	26309	94	281
ORX-3-CM-128L-7-50K7	25557	91	28423	101	281
ORX-3-CM-128L-7-50K8	23656	84	26309	94	281

PRODUCT SPECIFICATIONS

ORX-3-CM-144L LENSED

LUMEN CHART PERFORMANCE SILICONE MICRO OPTICS					
PART NUMBER	T4FTW CTG	LPW	T5W CTG	LPW	WATTAGE
ORX-3-CM-144L-35-27K7	13097	87	15498	103	150
ORX-3-CM-144L-35-27K8	12265	82	14513	97	150
ORX-3-CM-144L-35-30K7	14160	94	16756	112	150
ORX-3-CM-144L-35-30K8	13150	88	15561	104	150
ORX-3-CM-144L-35-35K8	13150	88	15561	104	150
ORX-3-CM-144L-35-40K7	15300	102	18105	121	150
ORX-3-CM-144L-35-40K8	14162	94	16758	112	150
ORX-3-CM-144L-35-50K7	15300	102	18105	121	150
ORX-3-CM-144L-35-50K8	14162	94	16758	112	150
ORX-3-CM-144L-53-27K7	18829	83	23784	105	227
ORX-3-CM-144L-53-27K8	17632	78	22272	98	227
ORX-3-CM-144L-53-30K7	20358	90	25715	113	227
ORX-3-CM-144L-53-30K8	18906	83	23881	105	227
ORX-3-CM-144L-53-35K8	18906	83	23881	105	227
ORX-3-CM-144L-53-40K7	21996	97	27785	122	227
ORX-3-CM-144L-53-40K8	20360	90	25718	113	227
ORX-3-CM-144L-53-50K7	21996	97	27785	122	227
ORX-3-CM-144L-53-50K8	20360	90	25718	113	227
ORX-3-CM-144L-7-27K7	23574	79	29686	99	300
ORX-3-CM-144L-7-27K8	22076	74	27799	93	300
ORX-3-CM-144L-7-30K7	25488	85	32096	107	300
ORX-3-CM-144L-7-30K8	23670	79	29807	99	300
ORX-3-CM-144L-7-35K8	23670	79	29807	99	300
ORX-3-CM-144L-7-40K7	27540	92	34680	116	300
ORX-3-CM-144L-7-40K8	25491	85	32100	107	300
ORX-3-CM-144L-7-50K7	27540	92	34680	116	300
ORX-3-CM-144L-7-50K8	25491	85	32100	107	300



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PRODUCT SPECIFICATIONS

BUG RATING CHARTS

ORX-3-CM-80L NO LENS

BUG RATING CHART STANDARD SILICONE MICRO OPTICS				
PART NUMBER	T2	T3	T4	T5
ORX-3-CM-80L-35-27K7	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G1
ORX-3-CM-80L-35-27K8	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G1
ORX-3-CM-80L-35-30K7	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G1
ORX-3-CM-80L-35-30K8	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G1
ORX-3-CM-80L-35-35K8	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G1
ORX-3-CM-80L-35-40K7	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G1
ORX-3-CM-80L-35-40K8	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G1
ORX-3-CM-80L-35-50K7	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G1
ORX-3-CM-80L-35-50K8	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G1
ORX-3-CM-80L-53-27K7	B2-U0-G2	B3-U0-G3	B2-U0-G2	B4-U0-G2
ORX-3-CM-80L-53-27K8	B2-U0-G2	B3-U0-G3	B2-U0-G2	B4-U0-G2
ORX-3-CM-80L-53-30K7	B2-U0-G2	B3-U0-G3	B3-U0-G3	B4-U0-G2
ORX-3-CM-80L-53-30K8	B2-U0-G2	B3-U0-G3	B3-U0-G3	B4-U0-G2
ORX-3-CM-80L-53-35K8	B2-U0-G2	B3-U0-G3	B3-U0-G3	B4-U0-G2
ORX-3-CM-80L-53-40K7	B3-U0-G3	B3-U0-G3	B3-U0-G3	B5-U0-G3
ORX-3-CM-80L-53-40K8	B3-U0-G3	B3-U0-G3	B3-U0-G3	B4-U0-G2
ORX-3-CM-80L-53-50K7	B3-U0-G3	B3-U0-G3	B3-U0-G3	B5-U0-G3
ORX-3-CM-80L-53-50K8	B3-U0-G3	B3-U0-G3	B3-U0-G3	B4-U0-G2
ORX-3-CM-80L-7-27K7	B3-U0-G3	B3-U0-G3	B3-U0-G3	B5-U0-G3
ORX-3-CM-80L-7-27K8	B3-U0-G3	B3-U0-G3	B3-U0-G3	B5-U0-G3
ORX-3-CM-80L-7-30K7	B3-U0-G3	B3-U0-G3	B3-U0-G3	B5-U0-G3
ORX-3-CM-80L-7-30K8	B3-U0-G3	B3-U0-G3	B3-U0-G3	B5-U0-G3
ORX-3-CM-80L-7-35K8	B3-U0-G3	B3-U0-G3	B3-U0-G3	B5-U0-G3
ORX-3-CM-80L-7-40K7	B3-U0-G3	B3-U0-G3	B3-U0-G4	B5-U0-G3
ORX-3-CM-80L-7-40K8	B3-U0-G3	B3-U0-G3	B3-U0-G3	B5-U0-G3
ORX-3-CM-80L-7-50K7	B3-U0-G3	B3-U0-G3	B3-U0-G4	B5-U0-G3
ORX-3-CM-80L-7-50K8	B3-U0-G3	B3-U0-G3	B3-U0-G3	B5-U0-G3
ORX-3-CM-80L-1-27K7	B3-U0-G3	B3-U0-G3	B3-U0-G4	B5-U0-G3
ORX-3-CM-80L-1-27K8	B3-U0-G3	B3-U0-G3	B3-U0-G4	B5-U0-G3
ORX-3-CM-80L-1-30K7	B3-U0-G3	B3-U0-G3	B3-U0-G4	B5-U0-G3
ORX-3-CM-80L-1-30K8	B3-U0-G3	B3-U0-G3	B3-U0-G4	B5-U0-G3
ORX-3-CM-80L-1-35K8	B3-U0-G3	B3-U0-G3	B3-U0-G4	B5-U0-G3
ORX-3-CM-80L-1-40K7	B3-U0-G3	B3-U0-G3	B3-U0-G4	B5-U0-G3
ORX-3-CM-80L-1-40K8	B3-U0-G3	B3-U0-G3	B3-U0-G4	B5-U0-G3
ORX-3-CM-80L-1-50K7	B3-U0-G3	B3-U0-G3	B3-U0-G4	B5-U0-G3
ORX-3-CM-80L-1-50K8	B3-U0-G3	B3-U0-G3	B3-U0-G4	B5-U0-G3

BUG RATING CHART PERFORMANCE SILICONE MICRO OPTICS				
PART NUMBER	T4FTW	T4FTW CTG	T5W	T5W CTG
ORX-3-CM-80L-35-27K7	B2-U0-G3	B2-U0-G3	B4-U0-G2	B3-U0-G2
ORX-3-CM-80L-35-27K8	B2-U0-G3	B2-U0-G3	B4-U0-G2	B3-U0-G2
ORX-3-CM-80L-35-30K7	B2-U0-G3	B2-U0-G3	B4-U0-G3	B4-U0-G2
ORX-3-CM-80L-35-30K8	B2-U0-G3	B2-U0-G3	B4-U0-G3	B4-U0-G2
ORX-3-CM-80L-35-35K8	B2-U0-G3	B2-U0-G3	B4-U0-G3	B4-U0-G2
ORX-3-CM-80L-35-40K7	B2-U0-G3	B2-U0-G3	B4-U0-G3	B4-U0-G2
ORX-3-CM-80L-35-40K8	B2-U0-G3	B2-U0-G3	B4-U0-G3	B4-U0-G2
ORX-3-CM-80L-35-50K7	B2-U0-G3	B2-U0-G3	B4-U0-G3	B4-U0-G2
ORX-3-CM-80L-35-50K8	B2-U0-G3	B2-U0-G3	B4-U0-G3	B4-U0-G2
ORX-3-CM-80L-53-27K7	B2-U0-G3	B2-U0-G3	B4-U0-G3	B4-U0-G3
ORX-3-CM-80L-53-27K8	B2-U0-G3	B2-U0-G3	B4-U0-G3	B4-U0-G3
ORX-3-CM-80L-53-30K7	B3-U0-G3	B2-U0-G3	B4-U0-G3	B4-U0-G3
ORX-3-CM-80L-53-30K8	B3-U0-G3	B2-U0-G3	B4-U0-G3	B4-U0-G3
ORX-3-CM-80L-53-35K8	B3-U0-G3	B2-U0-G3	B4-U0-G3	B4-U0-G3
ORX-3-CM-80L-53-40K7	B3-U0-G4	B2-U0-G3	B5-U0-G3	B4-U0-G3
ORX-3-CM-80L-53-40K8	B3-U0-G4	B2-U0-G3	B5-U0-G3	B4-U0-G3
ORX-3-CM-80L-53-50K7	B3-U0-G4	B2-U0-G3	B5-U0-G3	B4-U0-G3
ORX-3-CM-80L-53-50K8	B3-U0-G4	B2-U0-G3	B5-U0-G3	B4-U0-G3
ORX-3-CM-80L-7-27K7	B3-U0-G4	B3-U0-G3	B5-U0-G3	B4-U0-G3
ORX-3-CM-80L-7-27K8	B3-U0-G4	B3-U0-G3	B5-U0-G3	B4-U0-G3
ORX-3-CM-80L-7-30K7	B3-U0-G4	B3-U0-G4	B5-U0-G3	B5-U0-G3
ORX-3-CM-80L-7-30K8	B3-U0-G4	B3-U0-G4	B5-U0-G3	B5-U0-G3
ORX-3-CM-80L-7-35K8	B3-U0-G4	B3-U0-G4	B5-U0-G3	B5-U0-G3
ORX-3-CM-80L-7-40K7	B3-U0-G4	B3-U0-G4	B5-U0-G3	B5-U0-G3
ORX-3-CM-80L-7-40K8	B3-U0-G4	B3-U0-G4	B5-U0-G3	B5-U0-G3
ORX-3-CM-80L-7-50K7	B3-U0-G4	B3-U0-G4	B5-U0-G3	B5-U0-G3
ORX-3-CM-80L-7-50K8	B3-U0-G4	B3-U0-G4	B5-U0-G3	B5-U0-G3
ORX-3-CM-80L-1-27K7	B3-U0-G5	NA	B5-U0-G4	NA
ORX-3-CM-80L-1-27K8	B3-U0-G5	NA	B5-U0-G4	NA
ORX-3-CM-80L-1-30K7	B3-U0-G5	NA	B5-U0-G4	NA
ORX-3-CM-80L-1-30K8	B3-U0-G5	NA	B5-U0-G4	NA
ORX-3-CM-80L-1-35K8	B3-U0-G5	NA	B5-U0-G4	NA
ORX-3-CM-80L-1-40K7	B3-U0-G5	NA	B5-U0-G4	NA
ORX-3-CM-80L-1-40K8	B3-U0-G5	NA	B5-U0-G4	NA
ORX-3-CM-80L-1-50K7	B3-U0-G5	NA	B5-U0-G4	NA
ORX-3-CM-80L-1-50K8	B3-U0-G5	NA	B5-U0-G4	NA



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PRODUCT SPECIFICATIONS

BUG RATING CHARTS

ORX-3-CM-96L NO LENS

BUG RATING CHART STANDARD SILICONE MICRO OPTICS				
PART NUMBER	T2	T3	T4	T5
ORX-3-CM-96L-35-27K7	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G2
ORX-3-CM-96L-35-27K8	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G2
ORX-3-CM-96L-35-30K7	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G2
ORX-3-CM-96L-35-30K8	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G2
ORX-3-CM-96L-35-35K8	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G2
ORX-3-CM-96L-35-40K7	B2-U0-G2	B2-U0-G2	B2-U0-G2	B4-U0-G2
ORX-3-CM-96L-35-40K8	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G2
ORX-3-CM-96L-35-50K7	B2-U0-G2	B2-U0-G2	B2-U0-G2	B4-U0-G2
ORX-3-CM-96L-35-50K8	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G2
ORX-3-CM-96L-53-27K7	B3-U0-G3	B3-U0-G3	B3-U0-G3	B5-U0-G3
ORX-3-CM-96L-53-27K8	B3-U0-G3	B3-U0-G3	B3-U0-G3	B5-U0-G3
ORX-3-CM-96L-53-30K7	B3-U0-G3	B3-U0-G3	B3-U0-G3	B5-U0-G3
ORX-3-CM-96L-53-30K8	B3-U0-G3	B3-U0-G3	B3-U0-G3	B5-U0-G3
ORX-3-CM-96L-53-35K8	B3-U0-G3	B3-U0-G3	B3-U0-G3	B5-U0-G3
ORX-3-CM-96L-53-40K7	B3-U0-G3	B3-U0-G3	B3-U0-G3	B5-U0-G3
ORX-3-CM-96L-53-40K8	B3-U0-G3	B3-U0-G3	B3-U0-G3	B5-U0-G3
ORX-3-CM-96L-53-50K7	B3-U0-G3	B3-U0-G3	B3-U0-G3	B5-U0-G3
ORX-3-CM-96L-53-50K8	B3-U0-G3	B3-U0-G3	B3-U0-G3	B5-U0-G3
ORX-3-CM-96L-7-27K7	B3-U0-G3	B3-U0-G3	B3-U0-G3	B5-U0-G3
ORX-3-CM-96L-7-27K8	B3-U0-G3	B3-U0-G3	B3-U0-G3	B5-U0-G3
ORX-3-CM-96L-7-30K7	B3-U0-G3	B3-U0-G3	B3-U0-G3	B5-U0-G3
ORX-3-CM-96L-7-30K8	B3-U0-G3	B3-U0-G3	B3-U0-G3	B5-U0-G3
ORX-3-CM-96L-7-35K8	B3-U0-G3	B3-U0-G3	B3-U0-G3	B5-U0-G3
ORX-3-CM-96L-7-40K7	B3-U0-G3	B3-U0-G3	B3-U0-G4	B5-U0-G3
ORX-3-CM-96L-7-40K8	B3-U0-G3	B3-U0-G3	B3-U0-G3	B5-U0-G3
ORX-3-CM-96L-7-50K7	B3-U0-G3	B3-U0-G3	B3-U0-G4	B5-U0-G3
ORX-3-CM-96L-7-50K8	B3-U0-G3	B3-U0-G3	B3-U0-G3	B5-U0-G3
ORX-3-CM-96L-1-27K7	B3-U0-G3	B3-U0-G3	B3-U0-G4	B5-U0-G3
ORX-3-CM-96L-1-27K8	B3-U0-G3	B3-U0-G3	B3-U0-G4	B5-U0-G3
ORX-3-CM-96L-1-30K7	B3-U0-G4	B3-U0-G4	B3-U0-G4	B5-U0-G3
ORX-3-CM-96L-1-30K8	B3-U0-G3	B3-U0-G3	B3-U0-G4	B5-U0-G3
ORX-3-CM-96L-1-35K8	B3-U0-G3	B3-U0-G3	B3-U0-G4	B5-U0-G3
ORX-3-CM-96L-1-40K7	B3-U0-G4	B3-U0-G4	B4-U0-G4	B5-U0-G4
ORX-3-CM-96L-1-40K8	B3-U0-G4	B3-U0-G4	B3-U0-G4	B5-U0-G3
ORX-3-CM-96L-1-50K7	B3-U0-G4	B3-U0-G4	B4-U0-G4	B5-U0-G4
ORX-3-CM-96L-1-50K8	B3-U0-G4	B3-U0-G4	B3-U0-G4	B5-U0-G3

BUG RATING CHART PERFORMANCE SILICONE MICRO OPTICS				
PART NUMBER	T4FTW	T4FTW CTG	T5W	T5W CTG
ORX-3-CM-96L-35-27K7	B2-U0-G3	B2-U0-G3	B4-U0-G2	B4-U0-G2
ORX-3-CM-96L-35-27K8	B2-U0-G3	B2-U0-G3	B4-U0-G3	B4-U0-G2
ORX-3-CM-96L-35-30K7	B2-U0-G3	B2-U0-G3	B4-U0-G3	B4-U0-G2
ORX-3-CM-96L-35-30K8	B2-U0-G3	B2-U0-G3	B4-U0-G3	B4-U0-G2
ORX-3-CM-96L-35-35K8	B2-U0-G3	B2-U0-G3	B4-U0-G3	B4-U0-G2
ORX-3-CM-96L-35-40K7	B2-U0-G3	B2-U0-G3	B4-U0-G3	B4-U0-G2
ORX-3-CM-96L-35-40K8	B2-U0-G3	B2-U0-G3	B4-U0-G3	B4-U0-G2
ORX-3-CM-96L-35-50K7	B2-U0-G3	B2-U0-G3	B4-U0-G3	B4-U0-G2
ORX-3-CM-96L-35-50K8	B2-U0-G3	B2-U0-G3	B4-U0-G3	B4-U0-G2
ORX-3-CM-96L-53-27K7	B3-U0-G4	B2-U0-G3	B5-U0-G3	B4-U0-G2
ORX-3-CM-96L-53-27K8	B3-U0-G4	B2-U0-G3	B5-U0-G3	B4-U0-G2
ORX-3-CM-96L-53-30K7	B3-U0-G4	B2-U0-G3	B5-U0-G3	B4-U0-G3
ORX-3-CM-96L-53-30K8	B3-U0-G4	B2-U0-G3	B5-U0-G3	B4-U0-G3
ORX-3-CM-96L-53-35K8	B3-U0-G4	B2-U0-G3	B5-U0-G3	B4-U0-G3
ORX-3-CM-96L-53-40K7	B3-U0-G4	B3-U0-G4	B5-U0-G3	B4-U0-G3
ORX-3-CM-96L-53-40K8	B3-U0-G4	B3-U0-G4	B5-U0-G3	B4-U0-G3
ORX-3-CM-96L-53-50K7	B3-U0-G4	B3-U0-G4	B5-U0-G3	B4-U0-G3
ORX-3-CM-96L-53-50K8	B3-U0-G4	B3-U0-G4	B5-U0-G3	B4-U0-G3
ORX-3-CM-96L-7-27K7	B3-U0-G4	B3-U0-G4	B5-U0-G3	B4-U0-G3
ORX-3-CM-96L-7-27K8	B3-U0-G4	B3-U0-G4	B5-U0-G3	B4-U0-G3
ORX-3-CM-96L-7-30K7	B3-U0-G4	B3-U0-G4	B5-U0-G3	B4-U0-G3
ORX-3-CM-96L-7-30K8	B3-U0-G5	B3-U0-G4	B5-U0-G3	B4-U0-G3
ORX-3-CM-96L-7-35K8	B3-U0-G5	B3-U0-G4	B5-U0-G3	B4-U0-G3
ORX-3-CM-96L-7-40K7	B3-U0-G5	B3-U0-G4	B5-U0-G3	B4-U0-G3
ORX-3-CM-96L-7-40K8	B3-U0-G5	B3-U0-G4	B5-U0-G3	B4-U0-G3
ORX-3-CM-96L-7-50K7	B3-U0-G5	B3-U0-G4	B5-U0-G3	B4-U0-G3
ORX-3-CM-96L-7-50K8	B3-U0-G5	B3-U0-G4	B5-U0-G3	B4-U0-G3
ORX-3-CM-96L-1-27K7	B3-U0-G5	NA	B5-U0-G4	NA
ORX-3-CM-96L-1-27K8	B3-U0-G5	NA	B5-U0-G4	NA
ORX-3-CM-96L-1-30K7	B3-U0-G5	NA	B5-U0-G4	NA
ORX-3-CM-96L-1-30K8	B3-U0-G5	NA	B5-U0-G4	NA
ORX-3-CM-96L-1-35K8	B3-U0-G5	NA	B5-U0-G4	NA
ORX-3-CM-96L-1-40K7	B3-U0-G5	NA	B5-U0-G4	NA
ORX-3-CM-96L-1-40K8	B3-U0-G5	NA	B5-U0-G4	NA
ORX-3-CM-96L-1-50K7	B3-U0-G5	NA	B5-U0-G4	NA
ORX-3-CM-96L-1-50K8	B3-U0-G5	NA	B5-U0-G4	NA

PRODUCT SPECIFICATIONS

BUG RATING CHARTS

ORX-3-CM-128L NO LENS

BUG RATING CHART STANDARD SILICONE MICRO OPTICS				
PART NUMBER	T2	T3	T4	T5
ORX-3-CM-128L-35-27K7	B3-U0-G3	B3-U0-G3	B3-U0-G3	B4-U0-G2
ORX-3-CM-128L-35-27K8	B2-U0-G2	B3-U0-G3	B2-U0-G2	B4-U0-G2
ORX-3-CM-128L-35-30K7	B3-U0-G3	B3-U0-G3	B3-U0-G3	B5-U0-G3
ORX-3-CM-128L-35-30K8	B3-U0-G3	B3-U0-G3	B3-U0-G3	B4-U0-G2
ORX-3-CM-128L-35-35K8	B3-U0-G3	B3-U0-G3	B3-U0-G3	B4-U0-G2
ORX-3-CM-128L-35-40K7	B3-U0-G3	B3-U0-G3	B3-U0-G3	B5-U0-G3
ORX-3-CM-128L-35-40K8	B3-U0-G3	B3-U0-G3	B3-U0-G3	B5-U0-G3
ORX-3-CM-128L-35-50K7	B3-U0-G3	B3-U0-G3	B3-U0-G3	B5-U0-G3
ORX-3-CM-128L-35-50K8	B3-U0-G3	B3-U0-G3	B3-U0-G3	B5-U0-G3
ORX-3-CM-128L-53-27K7	B3-U0-G3	B3-U0-G3	B3-U0-G3	B5-U0-G3
ORX-3-CM-128L-53-27K8	B3-U0-G3	B3-U0-G3	B3-U0-G3	B5-U0-G3
ORX-3-CM-128L-53-30K7	B3-U0-G3	B3-U0-G3	B3-U0-G3	B5-U0-G3
ORX-3-CM-128L-53-30K8	B3-U0-G3	B3-U0-G3	B3-U0-G3	B5-U0-G3
ORX-3-CM-128L-53-35K8	B3-U0-G3	B3-U0-G3	B3-U0-G3	B5-U0-G3
ORX-3-CM-128L-53-40K7	B3-U0-G3	B3-U0-G3	B3-U0-G3	B5-U0-G3
ORX-3-CM-128L-53-40K8	B3-U0-G3	B3-U0-G3	B3-U0-G3	B5-U0-G3
ORX-3-CM-128L-53-50K7	B3-U0-G3	B3-U0-G3	B3-U0-G3	B5-U0-G3
ORX-3-CM-128L-53-50K8	B3-U0-G3	B3-U0-G3	B3-U0-G3	B5-U0-G3
ORX-3-CM-128L-7-27K7	B3-U0-G3	B3-U0-G3	B3-U0-G4	B5-U0-G3
ORX-3-CM-128L-7-27K8	B3-U0-G3	B3-U0-G3	B3-U0-G4	B5-U0-G3
ORX-3-CM-128L-7-30K7	B3-U0-G3	B3-U0-G3	B3-U0-G4	B5-U0-G3
ORX-3-CM-128L-7-30K8	B3-U0-G3	B3-U0-G3	B3-U0-G4	B5-U0-G3
ORX-3-CM-128L-7-35K8	B3-U0-G3	B3-U0-G3	B3-U0-G4	B5-U0-G3
ORX-3-CM-128L-7-40K7	B3-U0-G4	B4-U0-G4	B3-U0-G4	B5-U0-G4
ORX-3-CM-128L-7-40K8	B3-U0-G3	B3-U0-G3	B3-U0-G4	B5-U0-G3
ORX-3-CM-128L-7-50K7	B3-U0-G4	B4-U0-G4	B3-U0-G4	B5-U0-G4
ORX-3-CM-128L-7-50K8	B3-U0-G3	B3-U0-G3	B3-U0-G4	B5-U0-G3
ORX-3-CM-128L-1-27K7	B4-U0-G4	B4-U0-G4	B4-U0-G4	B5-U0-G4
ORX-3-CM-128L-1-27K8	B3-U0-G4	B4-U0-G4	B4-U0-G4	B5-U0-G4
ORX-3-CM-128L-1-30K7	B4-U0-G4	B4-U0-G4	B4-U0-G5	B5-U0-G4
ORX-3-CM-128L-1-30K8	B4-U0-G4	B4-U0-G4	B4-U0-G4	B5-U0-G4
ORX-3-CM-128L-1-35K8	B4-U0-G4	B4-U0-G4	B4-U0-G4	B5-U0-G4
ORX-3-CM-128L-1-40K7	B4-U0-G4	B4-U0-G4	B4-U0-G5	B5-U0-G4
ORX-3-CM-128L-1-40K8	B4-U0-G4	B4-U0-G4	B4-U0-G5	B5-U0-G4
ORX-3-CM-128L-1-50K7	B4-U0-G4	B4-U0-G4	B4-U0-G5	B5-U0-G4
ORX-3-CM-128L-1-50K8	B4-U0-G4	B4-U0-G4	B4-U0-G5	B5-U0-G4

BUG RATING CHART PERFORMANCE SILICONE MICRO OPTICS				
PART NUMBER	T4FTW	T4FTW CTG	T5W	T5W CTG
ORX-3-CM-128L-35-27K7	B3-U0-G3	B2-U0-G3	B4-U0-G3	B4-U0-G2
ORX-3-CM-128L-35-27K8	B3-U0-G3	B2-U0-G3	B4-U0-G3	B4-U0-G2
ORX-3-CM-128L-35-30K7	B3-U0-G3	B2-U0-G3	B5-U0-G3	B4-U0-G3
ORX-3-CM-128L-35-30K8	B3-U0-G3	B2-U0-G3	B5-U0-G3	B4-U0-G3
ORX-3-CM-128L-35-35K8	B3-U0-G3	B2-U0-G3	B5-U0-G3	B4-U0-G3
ORX-3-CM-128L-35-40K7	B3-U0-G3	B3-U0-G3	B5-U0-G3	B4-U0-G3
ORX-3-CM-128L-35-40K8	B3-U0-G3	B3-U0-G3	B5-U0-G3	B4-U0-G3
ORX-3-CM-128L-35-50K7	B3-U0-G3	B3-U0-G3	B5-U0-G3	B4-U0-G3
ORX-3-CM-128L-35-50K8	B3-U0-G3	B3-U0-G3	B5-U0-G3	B4-U0-G3
ORX-3-CM-128L-53-27K7	B3-U0-G4	B3-U0-G4	B5-U0-G3	B5-U0-G3
ORX-3-CM-128L-53-27K8	B3-U0-G4	B3-U0-G4	B5-U0-G3	B5-U0-G3
ORX-3-CM-128L-53-30K7	B3-U0-G4	B3-U0-G4	B5-U0-G3	B5-U0-G3
ORX-3-CM-128L-53-30K8	B3-U0-G4	B3-U0-G4	B5-U0-G3	B5-U0-G3
ORX-3-CM-128L-53-35K8	B3-U0-G4	B3-U0-G4	B5-U0-G3	B5-U0-G3
ORX-3-CM-128L-53-40K7	B3-U0-G4	B3-U0-G4	B5-U0-G4	B5-U0-G3
ORX-3-CM-128L-53-40K8	B3-U0-G4	B3-U0-G4	B5-U0-G4	B5-U0-G3
ORX-3-CM-128L-53-50K7	B3-U0-G4	B3-U0-G4	B5-U0-G4	B5-U0-G3
ORX-3-CM-128L-53-50K8	B3-U0-G4	B3-U0-G4	B5-U0-G4	B5-U0-G3
ORX-3-CM-128L-7-27K7	B3-U0-G4	B3-U0-G4	B5-U0-G4	B5-U0-G3
ORX-3-CM-128L-7-27K8	B3-U0-G4	B3-U0-G4	B5-U0-G4	B5-U0-G3
ORX-3-CM-128L-7-30K7	B3-U0-G5	B3-U0-G4	B5-U0-G4	B5-U0-G4
ORX-3-CM-128L-7-30K8	B3-U0-G5	B3-U0-G4	B5-U0-G4	B5-U0-G4
ORX-3-CM-128L-7-35K8	B3-U0-G5	B3-U0-G4	B5-U0-G4	B5-U0-G4
ORX-3-CM-128L-7-40K7	B3-U0-G5	B3-U0-G4	B5-U0-G4	B5-U0-G4
ORX-3-CM-128L-7-40K8	B3-U0-G5	B3-U0-G4	B5-U0-G4	B5-U0-G4
ORX-3-CM-128L-7-50K7	B3-U0-G5	B3-U0-G4	B5-U0-G4	B5-U0-G4
ORX-3-CM-128L-7-50K8	B3-U0-G5	B3-U0-G4	B5-U0-G4	B5-U0-G4
ORX-3-CM-128L-1-27K7	B4-U0-G5	NA	B5-U0-G4	NA
ORX-3-CM-128L-1-27K8	B4-U0-G5	NA	B5-U0-G4	NA
ORX-3-CM-128L-1-30K7	B4-U0-G5	NA	B5-U0-G4	NA
ORX-3-CM-128L-1-30K8	B4-U0-G5	NA	B5-U0-G4	NA
ORX-3-CM-128L-1-35K8	B4-U0-G5	NA	B5-U0-G4	NA
ORX-3-CM-128L-1-40K7	B4-U0-G5	NA	B5-U0-G5	NA
ORX-3-CM-128L-1-40K8	B4-U0-G5	NA	B5-U0-G5	NA
ORX-3-CM-128L-1-50K7	B4-U0-G5	NA	B5-U0-G5	NA
ORX-3-CM-128L-1-50K8	B4-U0-G5	NA	B5-U0-G5	NA



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PRODUCT SPECIFICATIONS

BUG RATING CHARTS

ORX-3-CM-144L NO LENS

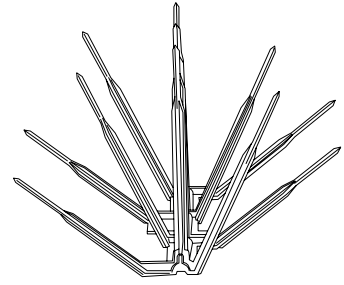
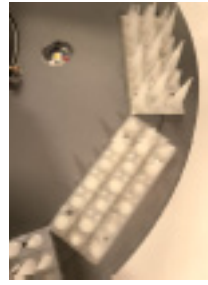
BUG RATING CHART STANDARD SILICONE MICRO OPTICS				
PART NUMBER	T2	T3	T4	T5
ORX-3-CM-144L-35-27K7	B3-U0-G3	B3-U0-G3	B3-U0-G3	B5-U0-G3
ORX-3-CM-144L-35-27K8	B3-U0-G3	B3-U0-G3	B3-U0-G3	B5-U0-G3
ORX-3-CM-144L-35-30K7	B3-U0-G3	B3-U0-G3	B3-U0-G3	B5-U0-G3
ORX-3-CM-144L-35-30K8	B3-U0-G3	B3-U0-G3	B3-U0-G3	B5-U0-G3
ORX-3-CM-144L-35-35K8	B3-U0-G3	B3-U0-G3	B3-U0-G3	B5-U0-G3
ORX-3-CM-144L-35-40K7	B3-U0-G3	B3-U0-G3	B3-U0-G3	B5-U0-G3
ORX-3-CM-144L-35-40K8	B3-U0-G3	B3-U0-G3	B3-U0-G3	B5-U0-G3
ORX-3-CM-144L-35-50K7	B3-U0-G3	B3-U0-G3	B3-U0-G3	B5-U0-G3
ORX-3-CM-144L-35-50K8	B3-U0-G3	B3-U0-G3	B3-U0-G3	B5-U0-G3
ORX-3-CM-144L-53-27K7	B3-U0-G3	B3-U0-G3	B3-U0-G3	B5-U0-G3
ORX-3-CM-144L-53-27K8	B3-U0-G3	B3-U0-G3	B3-U0-G3	B5-U0-G3
ORX-3-CM-144L-53-30K7	B3-U0-G3	B3-U0-G3	B3-U0-G3	B5-U0-G3
ORX-3-CM-144L-53-30K8	B3-U0-G3	B3-U0-G3	B3-U0-G3	B5-U0-G3
ORX-3-CM-144L-53-35K8	B3-U0-G3	B3-U0-G3	B3-U0-G3	B5-U0-G3
ORX-3-CM-144L-53-40K7	B3-U0-G3	B3-U0-G3	B3-U0-G4	B5-U0-G3
ORX-3-CM-144L-53-40K8	B3-U0-G3	B3-U0-G3	B3-U0-G3	B5-U0-G3
ORX-3-CM-144L-53-50K7	B3-U0-G3	B3-U0-G3	B3-U0-G4	B5-U0-G3
ORX-3-CM-144L-53-50K8	B3-U0-G3	B3-U0-G3	B3-U0-G3	B5-U0-G3
ORX-3-CM-144L-7-27K7	B3-U0-G3	B3-U0-G3	B3-U0-G4	B5-U0-G3
ORX-3-CM-144L-7-27K8	B3-U0-G3	B3-U0-G3	B3-U0-G4	B5-U0-G3
ORX-3-CM-144L-7-30K7	B3-U0-G4	B4-U0-G4	B4-U0-G4	B5-U0-G4
ORX-3-CM-144L-7-30K8	B3-U0-G3	B3-U0-G3	B3-U0-G4	B5-U0-G3
ORX-3-CM-144L-7-35K8	B3-U0-G3	B3-U0-G3	B3-U0-G4	B5-U0-G3
ORX-3-CM-144L-7-40K7	B3-U0-G4	B4-U0-G4	B4-U0-G4	B5-U0-G4
ORX-3-CM-144L-7-40K8	B3-U0-G4	B4-U0-G4	B4-U0-G4	B5-U0-G4
ORX-3-CM-144L-7-50K7	B3-U0-G4	B4-U0-G4	B4-U0-G4	B5-U0-G4
ORX-3-CM-144L-7-50K8	B3-U0-G4	B4-U0-G4	B4-U0-G4	B5-U0-G4
ORX-3-CM-144L-1A-27K7	B4-U0-G4	B4-U0-G4	B4-U0-G5	B5-U0-G4
ORX-3-CM-144L-1A-27K8	B4-U0-G4	B4-U0-G4	B4-U0-G5	B5-U0-G4
ORX-3-CM-144L-1A-30K7	B4-U0-G4	B4-U0-G4	B4-U0-G5	B5-U0-G4
ORX-3-CM-144L-1A-30K8	B4-U0-G4	B4-U0-G4	B4-U0-G5	B5-U0-G4
ORX-3-CM-144L-1A-35K8	B4-U0-G4	B4-U0-G4	B4-U0-G5	B5-U0-G4
ORX-3-CM-144L-1A-40K7	B4-U0-G4	B4-U0-G5	B4-U0-G5	B5-U0-G5
ORX-3-CM-144L-1A-40K8	B4-U0-G4	B4-U0-G4	B4-U0-G5	B5-U0-G4
ORX-3-CM-144L-1A-50K7	B4-U0-G4	B4-U0-G5	B4-U0-G5	B5-U0-G5
ORX-3-CM-144L-1A-50K8	B4-U0-G4	B4-U0-G4	B4-U0-G5	B5-U0-G4

BUG RATING CHART PERFORMANCE SILICONE MICRO OPTICS				
PART NUMBER	T4FTW	T4FTW CTG	T5W	T5W CTG
ORX-3-CM-144L-35-27K7	B3-U0-G3	B2-U0-G3	B4-U0-G3	B4-U0-G2
ORX-3-CM-144L-35-27K8	B3-U0-G3	B2-U0-G3	B4-U0-G3	B4-U0-G2
ORX-3-CM-144L-35-30K7	B3-U0-G3	B2-U0-G3	B5-U0-G3	B4-U0-G3
ORX-3-CM-144L-35-30K8	B3-U0-G3	B2-U0-G3	B5-U0-G3	B4-U0-G3
ORX-3-CM-144L-35-35K8	B3-U0-G3	B2-U0-G3	B5-U0-G3	B4-U0-G3
ORX-3-CM-144L-35-40K7	B3-U0-G3	B3-U0-G3	B5-U0-G3	B4-U0-G3
ORX-3-CM-144L-35-40K8	B3-U0-G3	B3-U0-G3	B5-U0-G3	B4-U0-G3
ORX-3-CM-144L-35-50K7	B3-U0-G3	B3-U0-G3	B5-U0-G3	B4-U0-G3
ORX-3-CM-144L-35-50K8	B3-U0-G3	B3-U0-G3	B5-U0-G3	B4-U0-G3
ORX-3-CM-144L-53-27K7	B3-U0-G4	B3-U0-G4	B5-U0-G3	B5-U0-G3
ORX-3-CM-144L-53-27K8	B3-U0-G4	B3-U0-G4	B5-U0-G3	B5-U0-G3
ORX-3-CM-144L-53-30K7	B3-U0-G4	B3-U0-G4	B5-U0-G3	B5-U0-G3
ORX-3-CM-144L-53-30K8	B3-U0-G4	B3-U0-G4	B5-U0-G3	B5-U0-G3
ORX-3-CM-144L-53-35K8	B3-U0-G4	B3-U0-G4	B5-U0-G3	B5-U0-G3
ORX-3-CM-144L-53-40K7	B3-U0-G4	B3-U0-G4	B5-U0-G4	B5-U0-G3
ORX-3-CM-144L-53-40K8	B3-U0-G4	B3-U0-G4	B5-U0-G4	B5-U0-G3
ORX-3-CM-144L-53-50K7	B3-U0-G4	B3-U0-G4	B5-U0-G4	B5-U0-G3
ORX-3-CM-144L-53-50K8	B3-U0-G4	B3-U0-G4	B5-U0-G4	B5-U0-G3
ORX-3-CM-144L-7-27K7	B3-U0-G4	B3-U0-G4	B5-U0-G4	B5-U0-G3
ORX-3-CM-144L-7-27K8	B3-U0-G4	B3-U0-G4	B5-U0-G4	B5-U0-G3
ORX-3-CM-144L-7-30K7	B3-U0-G5	B3-U0-G4	B5-U0-G4	B5-U0-G4
ORX-3-CM-144L-7-30K8	B3-U0-G5	B3-U0-G4	B5-U0-G4	B5-U0-G4
ORX-3-CM-144L-7-35K8	B3-U0-G5	B3-U0-G4	B5-U0-G4	B5-U0-G4
ORX-3-CM-144L-7-40K7	B3-U0-G5	B3-U0-G4	B5-U0-G4	B5-U0-G4
ORX-3-CM-144L-7-40K8	B3-U0-G5	B3-U0-G4	B5-U0-G4	B5-U0-G4
ORX-3-CM-144L-7-50K7	B3-U0-G5	B3-U0-G4	B5-U0-G4	B5-U0-G4
ORX-3-CM-144L-7-50K8	B3-U0-G5	B3-U0-G4	B5-U0-G4	B5-U0-G4
ORX-3-CM-144L-1A-27K7	B4-U0-G5	NA	B5-U0-G4	NA
ORX-3-CM-144L-1A-27K8	B4-U0-G5	NA	B5-U0-G4	NA
ORX-3-CM-144L-1A-30K7	B4-U0-G5	NA	B5-U0-G4	NA
ORX-3-CM-144L-1A-30K8	B4-U0-G5	NA	B5-U0-G4	NA
ORX-3-CM-144L-1A-35K8	B4-U0-G5	NA	B5-U0-G4	NA
ORX-3-CM-144L-1A-40K7	B4-U0-G5	NA	B5-U0-G5	NA
ORX-3-CM-144L-1A-40K8	B4-U0-G5	NA	B5-U0-G5	NA
ORX-3-CM-144L-1A-50K7	B4-U0-G5	NA	B5-U0-G5	NA
ORX-3-CM-144L-1A-50K8	B4-U0-G5	NA	B5-U0-G5	NA

PRODUCT SPECIFICATIONS

BIRD SPIKES (BS)

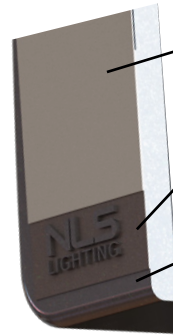
Bird Deterrent offers effective and humane deterrent for larger bird species and provides cost-effective long-term solution to nuisance bird infestations and protect your property.



MARINE GRADE FINISH (MGF)

The (MGF) is a multi step process. Chemically washed in a 5 stage cleaning system. Pre-baked. Powder coated 3-5 mils of Zinc Rich Super Durable Polyester Primer. Oven Baked.

Finished Powder Coating of Super Durable Polyester Powder Coat 3-5 mil thickness.



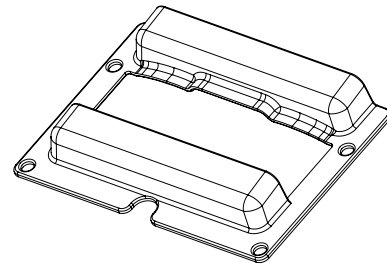
Powder Coat Finish
3-5 mil Powder Coat

Primer Layer
3-5 mil Zinc Rich Super Durable Polyester Primer

Prepared Casting
Chemically washed in multi Step 5 stage cleaning process

HOUSE SIDE SHIELD (HSS)

House Side Shield (HSS) is designed for stringent property line cutoff. Injection Molded Glass Filled Nylon, standard finish is black.



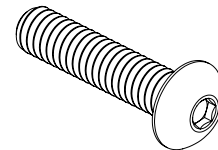
BLACK OPTIC FRAME

Optional Black Optic Frame (includes black hardware) Standard Optic Frame is white.



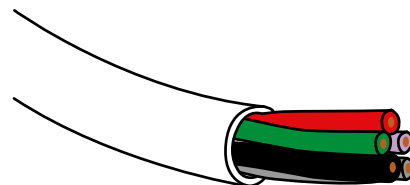
TAMPER PROOF HARDWARE

316 Stainless Steel Button Head Hex Drive Screws. Provided to protect the optical assembly and the driver compartment for vandal resistance.



5 CONDUCTOR DIMMING LEADS

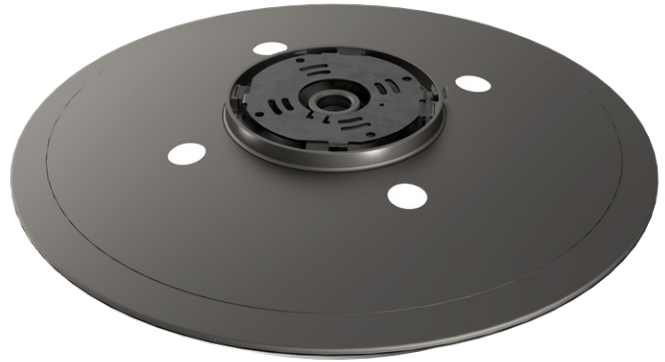
Standard Dimming Leads exiting the fixture for external dimming control.



PRODUCT SPECIFICATIONS

UP LIGHT

Optional Up Light.



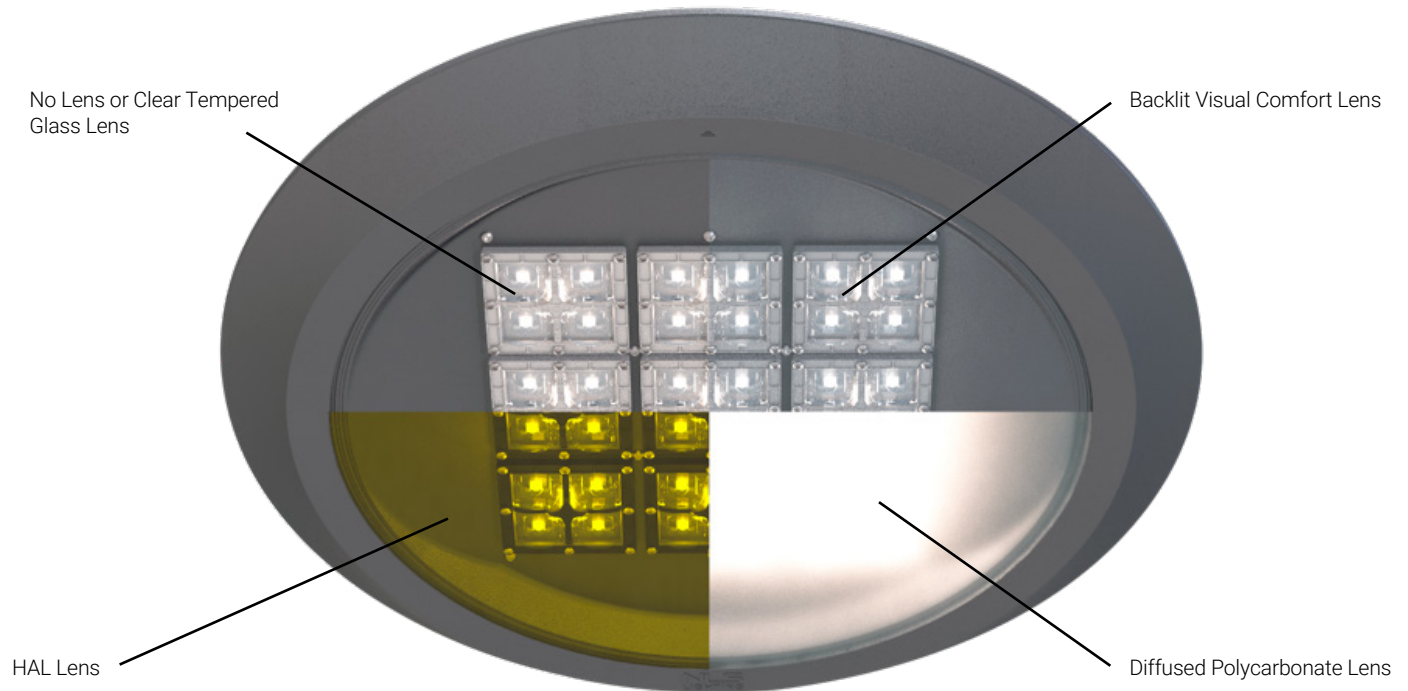
SENSOR SPECIFICATION



PRODUCT SPECIFICATIONS

LENS OPTIONS

- No Lens (Standard)
- Clear Tempered Glass Lens (CTG)
- Diffused Polycarbonat Lens (for use with Silicone Optics) - (DPCL)
- High Performance Yellow Polycarbonat Lens - Less than 2% Blue Light Content (HAL)



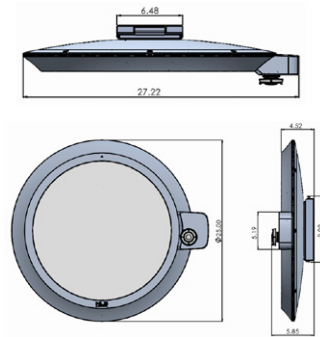
PRODUCT SPECIFICATIONS

CONTROL OPTIONS

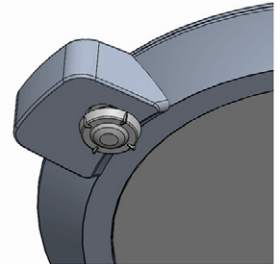
- DIMMING CONTROL (FSP)—Passive infrared (PIR) sensor providing multi-level control based on motion/daylight contribution
- All control parameters adjustable via wireless configuration remote storing and transmitting sensor profiles.
- FSP-8 mounting heights 8 feet and below
- FSP-20 mounting heights 9-20 feet.
- FSP-40 mounting heights 21-40 feet.
- Includes 5 dimming event cycles, 0-10V dimming with motion sensing, re-programmable in the field.

FSP-211 WITH MOTION SENSOR (FSP-XX)

- FSP-211(FSP-X)—Passive infrared (PIR) sensor providing multi-level control based on motion/daylight contribution.
- 120/277VAC, 230-240VAC
- All control parameters adjustable via wireless configuration remote storing and transmitting sensor profiles.
- FSP-8 mounting heights 8 feet and below
- FSP-20 mounting heights 9-20 feet.
- FSP-40 mounting heights 21-40 feet.
- Includes 5 dimming event cycles, 0-10V dimming with motion sensing, re-programmable in the field.

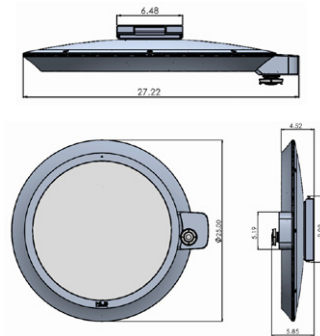


FSP-211

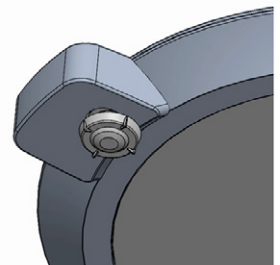


FSP-221 WITH MOTION SENSOR (FSP-HV-XX)

- FSP-221 (FSP-HV-X)—Passive infrared (PIR) sensor providing multi-level control based on motion/daylight contribution.
- 100-347VAC 208/230/480VAC
- All control parameters adjustable via wireless configuration remote storing and transmitting sensor profiles.
- FSP-8 mounting heights 8 feet and below
- FSP-20 mounting heights 9-20 feet.
- FSP-40 mounting heights 21-40 feet.
- Includes 5 dimming event cycles, 0-10V dimming with motion sensing, re-programmable in the field.

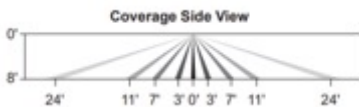
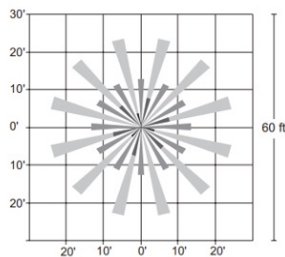


FSP-221



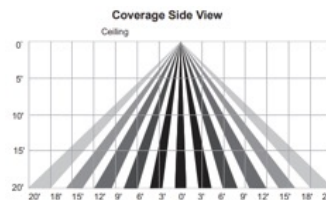
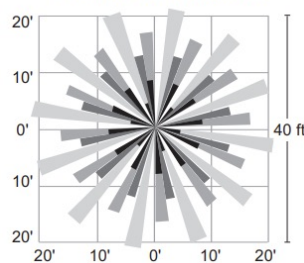
FSP-8

Coverage Top View @ 12ft.



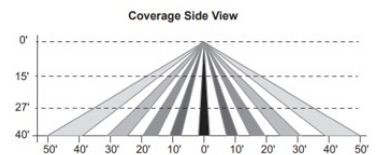
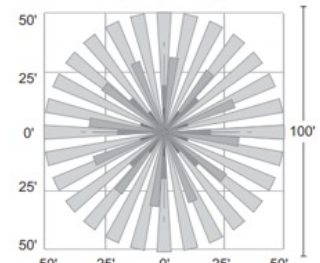
FSP-20

Coverage Top View @ 20 ft.

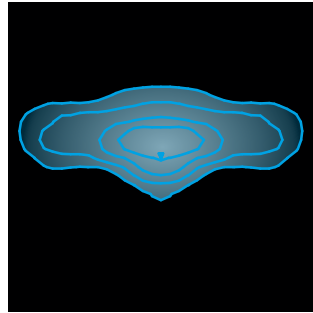
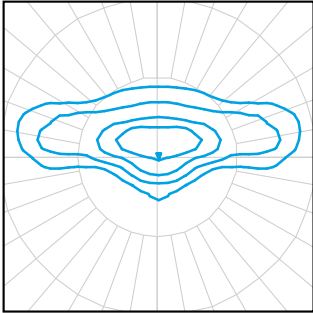


FSP-40

Coverage Top View @40ft

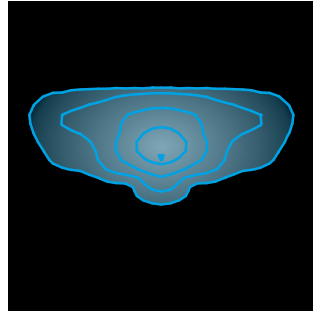
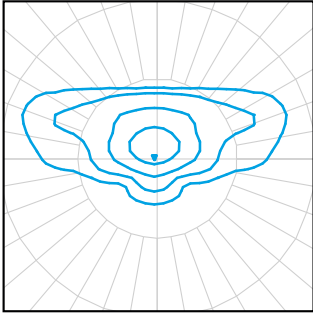


IES DISTRIBUTIONS



TE CONCENTRATED ENTRY

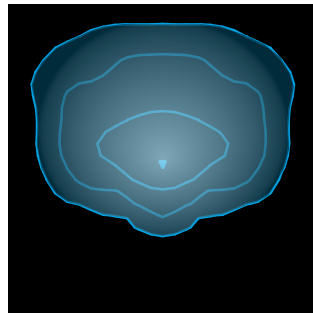
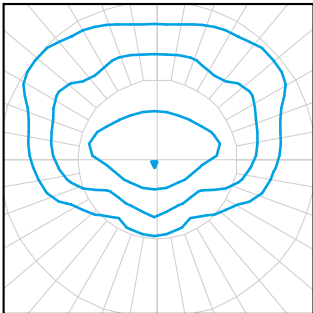
The TE distribution is used for narrow pathways and trails, narrow entrances of shopping centers, parking lots and office complex's.



TYPE 3 DRIVE LANE

The T3DL distribution is meant for roadway lighting, general parking areas and other areas where a larger area of lighting is required. T3DL lighting needs to be placed to the side of the area, allowing the light to project outward and fill the area. This produces a filling light flow.

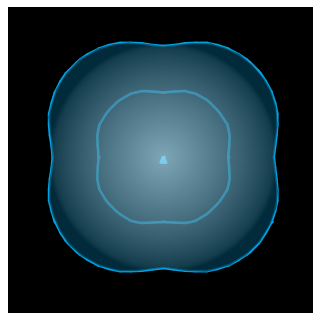
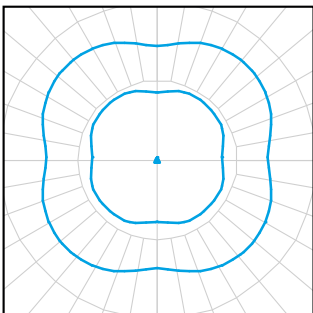
T3DL light distributions have a preferred lateral width of 40 degrees. This distribution is intended for luminaires mounted at or near the side of medium width roadways or areas, where the width of the roadway or area does not exceed 2.75 times the mounting height.



TYPE 4 MEDIUM

The T4M distribution produces a semicircular light meant for mounting on the sides of buildings and walls. It's best for illuminating the perimeter of parking areas and businesses. The intensity of the T4M lighting has the same intensity at angles from 90 degrees to 270 degrees.

T4M light distributions have a preferred lateral width of 60 degrees. This distribution is intended for side-of-road mounting and is generally used on wide roadways where the roadway width does not exceed 3.7 times the mounting height.



TYPE 5 OPTIMIZED

T5 produces a symmetrical distribution that has the same intensity at all angles. This distribution has a uniform symmetry of candlepower that is essentially the same at all lateral angles. It is meant for large, commercial parking lot lighting as well as areas where sufficient, evenly distributed light is necessary

SILICONE OPTICS

NLS Lighting Silicone Micro Optical System technology takes quality and performance to the highest level. Vandal resistant, superior clarity—Micro Optics have become the best and lasting solution in the industry.

BENEFITS

- Produces superior 96% clarity
- Heat resistant to 150° C, 50% higher than acrylic
- Ecologically friendly—no glare
- Vandal-resistant
- Does not brittle, crack, or yellow over time

