NLS LIGHTING

HERMOSA WALL PACK

WALL/CEILING/FLOOD LIGHTING

HRM-1 LED WATTAGE CHART					
Drive Current	Silicone Micro Optics			Star Power Optics (Low Glare)	
	16L	32L	48L	16L	32L
350 milliamps	-	-	-	-	-
400 milliamps	22W	41W	60W	-	-
530 milliamps	28W	53W	77W	28W	54W
700 milliamps	37W	70W	101W	36W	68W
900 milliamps	-	-	130W	-	-
1050 milliamps	56W	105W	-	56W	-

HRM-1 LUMEN CHART SUMMARY					
Drive Current	Silicone Micro Optics			Star Power Optics (Low Glare)	
	16L	32L	48L	16L	32L
350 milliamps	-	-	-	-	-
400 milliamps	1764-2866	3469-5601	3861-7750	-	-
530 milliamps	2207-3525	4247-6887	4585-9536	1873-2277	3746-4553
700 milliamps	2689-4294	5174-8390	5590-11625	2341-2846	4683-5691
900 milliamps	-	-	7068-14698	-	-
1050 milliamps	3958-6320	7616-12350	-	3278-3984	-

The Hermosa is the Best Value Solid State Outdoor Lighting Solution Today

- UL Listed for Wet Location
- Optical Systems - Silicone Micro Optic or Star Power (Low Glare)
- Tempered Borosilicate Glass Lens
- High Quality Outdoor Powder Coat Finish
- Suitable for use at 40ºC Ambient Temperature
- Minimum Start Temperature -40º F
- Weather Resistant Silicone Gasket
- Independent Photometric Testing
- Title 24 Compliant
- Die Cast Aluminum Housing

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:

HRM-1 ORDERING GUIDE

Cat#

Hermosa 1
(HRM-1)

Light Dist.

Standard Silicone Micro Optics

Type 2
(T2)

Type 3
(T3)

Performance Silicone Micro Optics

Type 4 Forward Throw Wide
(For Perimeters)
(T4FTW)

StarPower Optical System

Type 4 Low Glare
(T4-LG)

of LEDs

Standard Configurations

16 LED
(16L)

32 LED
(32L)

48 LED
(48L)

Standard Configurations

16 LED
(16L)

32 LED
(32L)

48 LED
(48L)

Standard Configurations

16 LED
(16L)

32 LED
(32L)

Drive Current

400 mA
(40)

530 mA
(53)

700 mA
(7)

1050 mA
(1) [14]

Standard Configurations

400 mA
(40)

530 mA
(53)

700 mA
(7)

900 mA
(9) [15]

1050 mA
(1) [14]

Standard Configurations

530 mA
(53)

700 mA
(7)

1050 mA
(1) [14]

Color Temp./CRI

Amber LED 595nm
Dominant Wavelength
Standard Turtle Friendly
(AMBER) [1, 6, 7, 13, 16]

Amber LED
Phosphor Converted
(AMBER/PC) [1, 7, 13, 16]

2700K, 70 CRI
(27K7) [2]

2700K, 80 CRI
(27K8) [2]

3000K, 70 CRI
(30K7) [2]

3000K, 80 CRI
(30K8) [2]

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]

Voltage

120-277
(UNV)

347-480
(HV)

Mounting

Wall Mount
(WM)

Color

Bronze Textured
(BRZ)

White Textured
(WHT)

Smooth White Gloss
(SWT)

Silver Metallic
(SVR)

Black Textured
(BLK)

Smooth Black Gloss
(SBK)

Graphite Textured
(GPH)

Grey Textured
(GRY)

Green Textured
(GRN)

Hunter Green Textured
(HGN)

Custom
(CS)

Controls Options

FSP-211 w/Motion Sensor/Photocell (120/277VAC,230-240VAC)

8' Heights
(FSP211-8) [10]

9'-20' Heights
(FSP211-20) [10]

21'-40' Heights
(FSP211-40) [10]

FSP-221 w/Motion Sensor/Photocell (100/347VAC,208/230/480VAC)

8' Heights
(FSP-HV-8) [11]

9'-20' Heights
(FSP-HV-20) [11]

21'-40' Heights
(FSP-HV-40) [11]

Custom Controls Integration
(CCI) [9]

DALI-2
(D2) [9]

FSP Remote
(FSIR) [12]

Button Type Photocell
(PC) [4]

Options

Marine Grade Finish
(MGF)

Emergency Battery Back-Up 4W
(EM4)

Emergency Battery Back-Up 8W
(EM8)

Emergency Battery 14W 14W
(EM14)

Emergency Battery Cold Pack 14W
(EMCP)

Round Pole Adaptor 5"-6" Pole
(RPA5)

Dual Circuit
(DC)

20KA Surge Protector
(20K)

Buy American Act
(BAA) [3]

Trade Agreement Act
(TAA) [3]

Build America Buy American
(BABA) [3]

Lens Options

Tempered Borosilicate Glass Lens (Standard)

Polycarbonate Lens
(PL) [1]

Diffused Polycarbonate Visual Comfort Lens
(DPCL) [1]

HAL Lens
(HAL) [1, 8]

NOTES:

1. Consult Factory for Lead Time
2. Consult Factory for 90 CRI Requests
3. Consult factory for all BAA/TAA/BABA requests
4. Universal Voltage 120-347VAC (single phase)
5. 3000K or lower, w/fixed mounting options only. Must be selected to meet International Dark-Sky 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, Avi-On, or other control systems)
10. FSP-211, 120V/277VAC (800W/1200W Max), 230-240VAC (300W Max), 50/60Hz Single Phase. Field/Site line voltage must be disclosed for project validation.
11. FSP-221, 100-347VAC 50/60Hz Single Phase, 208/230/480VAC 50/60Hz Phase-to-Phase. 120VAC (800W Max), 230-240VAC (300W Max), 277/347/480VAC (1200W Max). Field/Site line voltage must be disclosed for project validation.
12. Projects with sensors require Qty. 1 FSIR per project.
13. Please contact Factory to verify the estimated performance data
14. 16L and 32L Only
15. 48L Only
16. Only available with Micro Optics

PRODUCT SPECIFICATIONS

ELECTRICAL

- 120-277 Volts (UNV) or 347-480 Volts (HV)
- 0-10V dimming driver
- Driver power factor at maximum load is ≥ .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 internal wiring UL certified for 600 VAC and 105°C
- CRI 70, 80 or 90
- Color temperatures: 2700, 3000K, 3500K, 4000K, 5000K

CONSTRUCTION

- Die Cast Aluminum.

OPTIONS

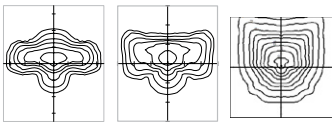
- MARINE GRADE FINISH (MGF) - A multi-step process creating protective finishing coat against harsh environments. Chemically washed in a 5 stage cleaning system. Pre-baked, Powder coated 3-5 mils of Zinc Rich Super Durable Polyester Primer. Oven Baked. Finished Powder Coating of Super Durable Polyester Powder Coat 3-5 mil thickness.
- POLYCARBONATE LENS
- EMERGENCY BATTERY BACK-UP
- COLD WEATHER BATTERY BACK-UP
- DUAL CIRCUIT
- 20KA SURGE PROTECTOR

CONTROL OPTIONS

- **FSP-221B-D (FSP-X)—Passive infrared (PIR) sensor providing** multi-level control based on motion/daylight contribution.
  - 100-347VAC Single Phase), 208/230/480VAC (Phase to Phase)
  - All control parameters adjustable via wireless configuration remote storing and transmitting sensor profiles.
  - FSP-8 mounting heights 8 feet and under
  - FSP-20mounting heights 21-40 feet
  - Includes 5 dimming event cycles, 0-10V dimming with motion sensing, re-programmable in the field.
  - FSIR-100 commissioning remote is required to change sensor settings. Please contact factory for ordering.
- BUTTON PHOTOCELL
- 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)

OPTICS

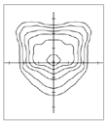
IES DISTRIBUTIONS - SILICON MICRO OPTICS



TYPE II (T2) TYPE III (T3) TYPE IV FORWARD (T4FTW)

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 - STAR POWER OPTICS



TYPE IV LOW GLARE (T4LG)

Recessed Star Power Optical System is 95% reflective material. Utilizes a linear diffused pattern, softening the light distribution and eliminating any dark shadows or striations.

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.

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:

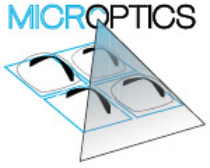
https://nlslighting.com/buy-american/

STAR POWER™ OPTICAL SYSTEM

STAR POWER™ OPTICAL SYSTEM

The Star PowerTM reflector is an excellent system which provides great value and performance. Star Power Patent number: 10168023

MICROPTICS



SILICONE MICRO 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.

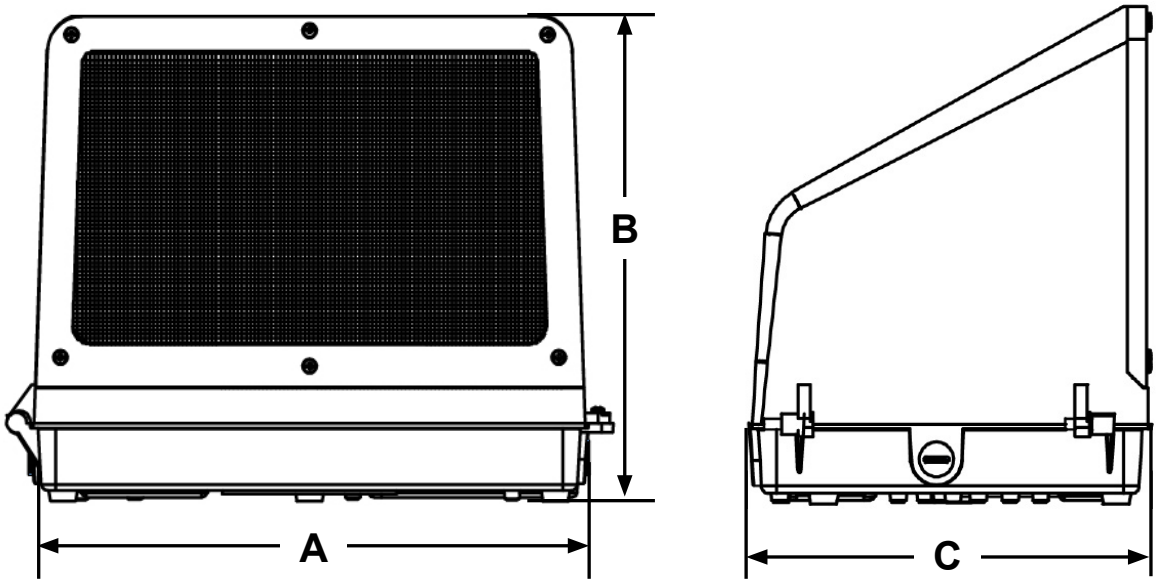
5 YEAR LIMITED WARRANTY · RoHS COMPLIANT · STAR POWER™ OPTICAL SYSTEM · POWDER COATED TOUGH · TITLE 24 COMPLIANT · IP66 · c UL us LISTED

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.

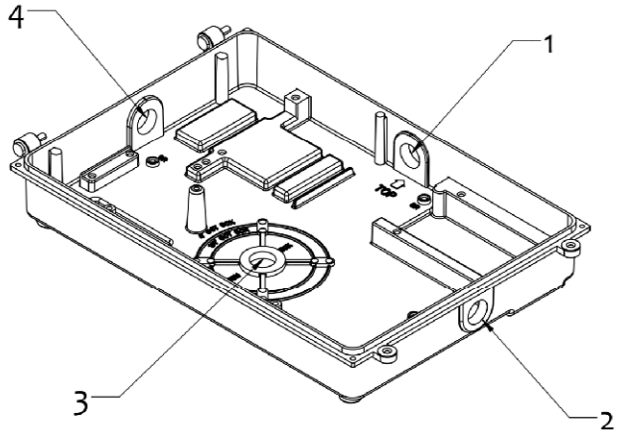
PRODUCT SPECIFICATIONS

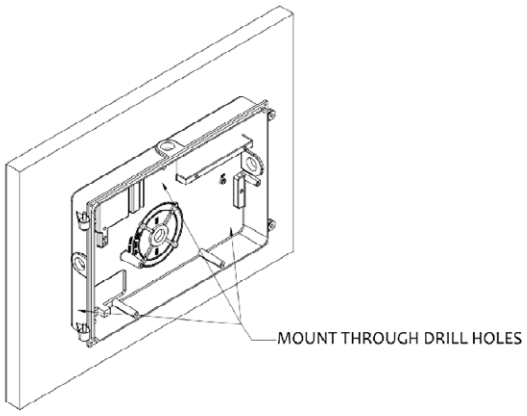
DIMENSION	HRM-1
A	14.25 in
B	12.00 in
C	9.00 in
WEIGHT	17 lbs

EPA	FRONT	SIDE
HRM-1	.81 ft^2	.51 ft^2

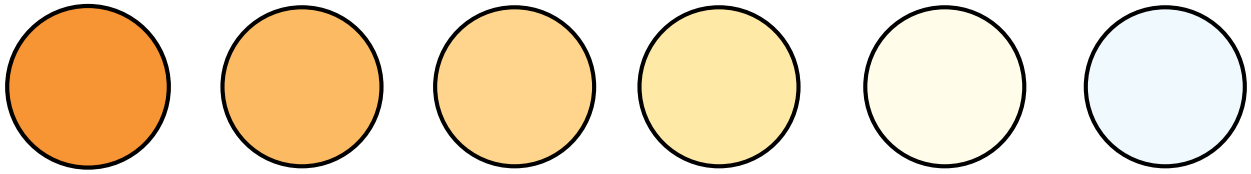


Remove Wireway hole caps (Shown in figure below) where necessary to insert conduit and other electrical components. Then mount the housing to the wall. Use Silicon Caulk to seal screws if desired, as well as area around J Box (recommended if installing in damp/ Wet locations). See installation instructions for complete installation process.





LED KELVIN RANGE



AMBER 585-600 nm | 2700K 70 CRI | 3000K 70 CRI | 3500K 80 CRI | 4000K 70 CRI | 5000K 70 CRI

Color	Dominant or Peak Wavelength Range (nm)	
	Minimum	Maximum
Amber	585	600

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	38,000	96,000	93.0%	85.4%	81.8%	68.8%
*Reported extrapolations per IESNA TM-21				**Projected extrapolations per IESNA TM-21			

LUMEN MULTIPLIERS

Multipliers For 70/80/90 CRI (Scaling Factor 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

LUMEN CHARTS - SILICONE MICRO OPTICS

SILICONE MICRO OPTICS - 16 LED							
Part Number	STANDARD				PERFORMANCE		Wattage
	T2	LPW	T3	LPW	T4FTW	LPW	
HRM-1-16L-40-27K7	2408	108	2342	105	2011	90	22
HRM-1-16L-40-27K8	2113	95	2055	92	1764	79	22
HRM-1-16L-40-30K7	2795	126	2718	122	2334	105	22
HRM-1-16L-40-30K8	2224	100	2163	97	1858	83	22
HRM-1-16L-40-35K8	2293	103	2230	100	1915	86	22
HRM-1-16L-40-40K7	2866	129	2788	125	2394	108	22
HRM-1-16L-40-40K8	2336	105	2272	102	1951	88	22
HRM-1-16L-40-50K7	2866	129	2788	125	2394	108	22
HRM-1-16L-40-50K8	2379	107	2314	104	1987	89	22
HRM-1-16L-53-27K7	2961	105	2880	102	2516	89	28
HRM-1-16L-53-27K8	2598	92	2527	90	2207	78	28
HRM-1-16L-53-30K7	3436	122	3342	119	2920	104	28
HRM-1-16L-53-30K8	2735	97	2660	94	2324	82	28
HRM-1-16L-53-35K8	2820	100	2742	97	2396	85	28
HRM-1-16L-53-40K7	3525	125	3428	122	2995	106	28
HRM-1-16L-53-40K8	2872	102	2794	99	2441	87	28
HRM-1-16L-53-50K7	3525	125	3428	122	2995	106	28
HRM-1-16L-53-50K8	2925	104	2845	101	2486	88	28
HRM-1-16L-7-27K7	3607	97	3508	94	3065	82	37
HRM-1-16L-7-27K8	3165	85	3078	83	2689	72	37
HRM-1-16L-7-30K7	4187	113	4072	109	3557	96	37
HRM-1-16L-7-30K8	3332	90	3241	87	2831	76	37
HRM-1-16L-7-35K8	3435	92	3341	90	2919	78	37
HRM-1-16L-7-40K7	4294	115	4176	112	3649	98	37
HRM-1-16L-7-40K8	3500	94	3404	91	2974	80	37
HRM-1-16L-7-50K7	4294	115	4176	112	3649	98	37
HRM-1-16L-7-50K8	3564	96	3466	93	3028	81	37
HRM-1-16L-1-27K7	5309	95	5164	93	4511	81	56
HRM-1-16L-1-27K8	4658	83	4531	81	3958	71	56
HRM-1-16L-1-30K7	6162	110	5994	107	5236	94	56
HRM-1-16L-1-30K8	4905	88	4770	85	4168	75	56
HRM-1-16L-1-35K8	5056	91	4918	88	4296	77	56
HRM-1-16L-1-40K7	6320	113	6148	110	5371	96	56
HRM-1-16L-1-40K8	5151	92	5010	90	4377	78	56
HRM-1-16L-1-50K7	6320	113	6148	110	5371	96	56
HRM-1-16L-1-50K8	5246	94	5102	91	4458	80	56

SILICONE MICRO OPTICS - 32 LED							
Part Number	STANDARD				PERFORMANCE		Wattage
	T2	LPW	T3	LPW	T4FTW	LPW	
HRM-1-32L-40-27K7	4705	115	4554	111	3954	96	41
HRM-1-32L-40-27K8	4128	101	3996	97	3469	84	41
HRM-1-32L-40-30K7	5461	133	5286	129	4589	112	41
HRM-1-32L-40-30K8	4346	106	4207	102	3653	89	41
HRM-1-32L-40-35K8	4481	109	4337	106	3766	92	41
HRM-1-32L-40-40K7	5601	136	5422	132	4707	115	41
HRM-1-32L-40-40K8	4565	111	4419	108	3836	93	41
HRM-1-32L-40-50K7	5601	136	5422	132	4707	115	41
HRM-1-32L-40-50K8	4649	113	4500	110	3907	95	41
HRM-1-32L-53-27K7	5785	109	5600	106	4840	92	53
HRM-1-32L-53-27K8	5076	96	4913	93	4247	80	53
HRM-1-32L-53-30K7	6715	127	6500	123	5618	106	53
HRM-1-32L-53-30K8	5344	101	5173	98	4472	85	53
HRM-1-32L-53-35K8	5510	104	5333	101	4610	87	53
HRM-1-32L-53-40K7	6887	130	6666	126	5762	109	53
HRM-1-32L-53-40K8	5613	106	5433	103	4696	89	53
HRM-1-32L-53-50K7	6887	130	6666	126	5762	109	53
HRM-1-32L-53-50K8	5716	108	5533	105	4783	90	53
HRM-1-32L-7-27K7	7048	101	6822	98	5897	84	70
HRM-1-32L-7-27K8	6184	89	5985	86	5174	74	70
HRM-1-32L-7-30K7	8181	117	7918	113	6845	98	70
HRM-1-32L-7-30K8	6511	93	6302	90	5448	78	70
HRM-1-32L-7-35K8	6712	96	6497	93	5616	80	70
HRM-1-32L-7-40K7	8390	120	8121	116	7020	100	70
HRM-1-32L-7-40K8	6838	98	6619	95	5721	82	70
HRM-1-32L-7-50K7	8390	120	8121	116	7020	100	70
HRM-1-32L-7-50K8	6964	100	6741	96	5827	83	70
HRM-1-32L-1-27K7	10374	99	10042	96	8680	83	105
HRM-1-32L-1-27K8	9102	87	8810	84	7616	73	105
HRM-1-32L-1-30K7	12041	115	11656	111	10075	96	105
HRM-1-32L-1-30K8	9584	91	9277	89	8019	77	105
HRM-1-32L-1-35K8	9880	94	9564	91	8267	79	105
HRM-1-32L-1-40K7	12350	118	11954	114	10333	99	105
HRM-1-32L-1-40K8	10065	96	9743	93	8422	80	105
HRM-1-32L-1-50K7	12350	118	11954	114	10333	99	105
HRM-1-32L-1-50K8	10251	98	9922	95	8577	82	105

LUMEN CHARTS - SILICONE MICRO OPTICS

SILICONE MICRO OPTICS - 48 LED							
Part Number	STANDARD				PERFORMANCE		Wattage
	T2	LPW	T3	LPW	T4FTW	LPW	
HRM-1-48L-40-27K7	6510	108	6441	107	5238	87	60
HRM-1-48L-40-27K8	5712	95	5651	94	3861	64	60
HRM-1-48L-40-30K7	7557	125	7476	124	6236	103	60
HRM-1-48L-40-30K8	6014	100	5951	99	4839	80	60
HRM-1-48L-40-35K8	6200	103	6135	102	4839	80	60
HRM-1-48L-40-40K7	7750	128	7668	127	6396	106	60
HRM-1-48L-40-40K8	6316	105	6250	104	5213	86	60
HRM-1-48L-40-50K7	7750	128	7668	127	6396	106	60
HRM-1-48L-40-50K8	7915	131	6365	105	5309	88	60
HRM-1-48L-53-27K7	8010	104	7925	103	6222	81	77
HRM-1-48L-53-27K8	7028	91	6953	90	4585	60	77
HRM-1-48L-53-30K7	9297	121	9199	120	7407	96	77
HRM-1-48L-53-30K8	7400	96	7321	95	5748	75	77
HRM-1-48L-53-35K8	7629	99	7548	98	5748	75	77
HRM-1-48L-53-40K7	9536	124	9435	123	7597	99	77
HRM-1-48L-53-40K8	7772	101	7689	100	6191	81	77
HRM-1-48L-53-50K7	9536	124	9435	123	7597	99	77
HRM-1-48L-53-50K8	7915	103	7831	102	6305	82	77
HRM-1-48L-7-27K7	9765	96	9662	95	7585	75	101
HRM-1-48L-7-27K8	8568	84	8477	84	5590	55	101
HRM-1-48L-7-30K7	11335	112	11215	111	9030	89	101
HRM-1-48L-7-30K8	9021	89	8926	88	7007	69	101
HRM-1-48L-7-35K8	9300	92	9202	91	7007	69	101
HRM-1-48L-7-40K7	11625	115	11502	113	9262	91	101
HRM-1-48L-7-40K8	9475	93	9374	92	7548	74	101
HRM-1-48L-7-50K7	11625	115	11502	113	9262	91	101
HRM-1-48L-7-50K8	9649	95	9547	94	7687	76	101
HRM-1-48L-1-27K7	12346	95	12215	94	9590	74	130
HRM-1-48L-1-27K8	10832	83	10718	82	7068	54	130
HRM-1-48L-1-30K7	14330	110	14179	109	11416	88	130
HRM-1-48L-1-30K8	11406	87	11285	86	8859	68	130
HRM-1-48L-1-35K8	11758	90	11634	89	8859	68	130
HRM-1-48L-1-40K7	14698	113	14542	111	11709	90	130
HRM-1-48L-1-40K8	11979	92	11852	91	9543	73	130
HRM-1-48L-1-50K7	14698	113	14542	111	11709	90	130
HRM-1-48L-1-50K8	12199	94	12070	93	9719	74	130

LUMEN CHARTS - STAR POWER OPTICS

STAR POWER OPTICS - 16 LED			
Part Number	**T4LG**	**LPW**	**Wattage**
HRM-1-T4LG-16L-53-27K7	2001	71	28
HRM-1-T4LG-16L-53-27K8	1873	67	28
HRM-1-T4LG-16L-53-30K7	2163	77	28
HRM-1-T4LG-16L-53-30K8	2009	72	28
HRM-1-T4LG-16L-53-35K8	2009	72	28
HRM-1-T4LG-16L-53-40K7	2277	81	28
HRM-1-T4LG-16L-53-40K8	2108	75	28
HRM-1-T4LG-16L-53-50K7	2277	81	28
HRM-1-T4LG-16L-53-50K8	2108	75	28
HRM-1-T4LG-16L-7-27K7	2500	69	36
HRM-1-T4LG-16L-7-27K8	2341	65	36
HRM-1-T4LG-16L-7-30K7	2703	75	36
HRM-1-T4LG-16L-7-30K8	2510	70	36
HRM-1-T4LG-16L-7-35K8	2510	70	36
HRM-1-T4LG-16L-7-40K7	2846	79	36
HRM-1-T4LG-16L-7-40K8	2634	73	36
HRM-1-T4LG-16L-7-50K7	2846	79	36
HRM-1-T4LG-16L-7-50K8	2634	73	36
HRM-1-T4LG-16L-1-27K7	3501	63	56
HRM-1-T4LG-16L-1-27K8	3278	59	56
HRM-1-T4LG-16L-1-30K7	3785	68	56
HRM-1-T4LG-16L-1-30K8	3515	63	56
HRM-1-T4LG-16L-1-35K8	3515	63	56
HRM-1-T4LG-16L-1-40K7	3984	71	56
HRM-1-T4LG-16L-1-40K8	3688	66	56
HRM-1-T4LG-16L-1-50K7	3984	71	56
HRM-1-T4LG-16L-1-50K8	3688	66	56

STAR POWER OPTICS - 32 LED			
Part Number	**T4LG**	**LPW**	**Wattage**
HRM-1-T4LG-32L-53-27K7	4000	74	54
HRM-1-T4LG-32L-53-27K8	3746	69	54
HRM-1-T4LG-32L-53-30K7	4325	80	54
HRM-1-T4LG-32L-53-30K8	4017	74	54
HRM-1-T4LG-32L-53-35K8	4017	74	54
HRM-1-T4LG-32L-53-40K7	4553	84	54
HRM-1-T4LG-32L-53-40K8	4214	78	54
HRM-1-T4LG-32L-53-50K7	4553	84	54
HRM-1-T4LG-32L-53-50K8	4214	78	54
HRM-1-T4LG-32L-7-27K7	5001	74	68
HRM-1-T4LG-32L-7-27K8	4683	69	68
HRM-1-T4LG-32L-7-30K7	5407	80	68
HRM-1-T4LG-32L-7-30K8	5021	74	68
HRM-1-T4LG-32L-7-35K8	5021	74	68
HRM-1-T4LG-32L-7-40K7	5691	84	68
HRM-1-T4LG-32L-7-40K8	5268	77	68
HRM-1-T4LG-32L-7-50K7	5691	84	68
HRM-1-T4LG-32L-7-50K8	5268	77	68

BUG RATING CHARTS - SILICONE MICRO OPTICS

SILICONE MICRO OPTICS - 16 LED			
Part Number	STANDARD		PERFORMANCE
	T2	T3	T4FTW
HRM-1-16L-40-27K7	B1-U0-G1	B1-U0-G1	B1-U0-G1
HRM-1-16L-40-27K8	B1-U0-G1	B1-U0-G1	B1-U0-G1
HRM-1-16L-40-30K7	B1-U0-G1	B1-U0-G1	B1-U0-G1
HRM-1-16L-40-30K8	B1-U0-G1	B1-U0-G1	B1-U0-G1
HRM-1-16L-40-35K8	B1-U0-G1	B1-U0-G1	B1-U0-G1
HRM-1-16L-40-40K7	B1-U0-G1	B1-U0-G1	B1-U0-G1
HRM-1-16L-40-40K8	B1-U0-G1	B1-U0-G1	B1-U0-G1
HRM-1-16L-40-50K7	B1-U0-G1	B1-U0-G1	B1-U0-G1
HRM-1-16L-40-50K8	B1-U0-G1	B1-U0-G1	B1-U0-G1
HRM-1-16L-53-27K7	B1-U0-G1	B1-U0-G1	B1-U0-G1
HRM-1-16L-53-27K8	B1-U0-G1	B1-U0-G1	B1-U0-G1
HRM-1-16L-53-30K7	B1-U0-G1	B1-U0-G1	B1-U0-G1
HRM-1-16L-53-30K8	B1-U0-G1	B1-U0-G1	B1-U0-G1
HRM-1-16L-53-35K8	B1-U0-G1	B1-U0-G1	B1-U0-G1
HRM-1-16L-53-40K7	B1-U0-G1	B1-U0-G1	B1-U0-G1
HRM-1-16L-53-40K8	B1-U0-G1	B1-U0-G1	B1-U0-G1
HRM-1-16L-53-50K7	B1-U0-G1	B1-U0-G1	B1-U0-G1
HRM-1-16L-53-50K8	B1-U0-G1	B1-U0-G1	B1-U0-G1
HRM-1-16L-7-27K7	B1-U0-G1	B1-U0-G1	B1-U0-G1
HRM-1-16L-7-27K8	B1-U0-G1	B1-U0-G1	B1-U0-G1
HRM-1-16L-7-30K7	B1-U0-G1	B1-U0-G1	B1-U0-G1
HRM-1-16L-7-30K8	B1-U0-G1	B1-U0-G1	B1-U0-G1
HRM-1-16L-7-35K8	B1-U0-G1	B1-U0-G1	B1-U0-G1
HRM-1-16L-7-40K7	B1-U0-G1	B1-U0-G1	B1-U0-G1
HRM-1-16L-7-40K8	B1-U0-G1	B1-U0-G1	B1-U0-G1
HRM-1-16L-7-50K7	B1-U0-G1	B1-U0-G1	B1-U0-G1
HRM-1-16L-7-50K8	B1-U0-G1	B1-U0-G1	B1-U0-G1
HRM-1-16L-1-27K7	B1-U0-G1	B1-U0-G1	B1-U0-G1
HRM-1-16L-1-27K8	B1-U0-G1	B1-U0-G1	B1-U0-G1
HRM-1-16L-1-30K7	B1-U0-G1	B1-U0-G1	B1-U0-G1
HRM-1-16L-1-30K8	B1-U0-G1	B1-U0-G1	B1-U0-G1
HRM-1-16L-1-35K8	B1-U0-G1	B1-U0-G1	B1-U0-G1
HRM-1-16L-1-40K7	B1-U0-G1	B1-U0-G1	B1-U0-G2
HRM-1-16L-1-40K8	B1-U0-G1	B1-U0-G1	B1-U0-G1
HRM-1-16L-1-50K7	B1-U0-G1	B1-U0-G1	B1-U0-G2
HRM-1-16L-1-50K8	B1-U0-G1	B1-U0-G1	B1-U0-G1

SILICONE MICRO OPTICS - 32 LED			
Part Number	STANDARD		PERFORMANCE
	T2	T3	T4FTW
HRM-1-32L-40-27K7	B1-U0-G1	B1-U0-G1	B1-U0-G1
HRM-1-32L-40-27K8	B1-U0-G1	B1-U0-G1	B1-U0-G1
HRM-1-32L-40-30K7	B1-U0-G1	B1-U0-G1	B1-U0-G1
HRM-1-32L-40-30K8	B1-U0-G1	B1-U0-G1	B1-U0-G1
HRM-1-32L-40-35K8	B1-U0-G1	B1-U0-G1	B1-U0-G1
HRM-1-32L-40-40K7	B1-U0-G1	B1-U0-G1	B1-U0-G1
HRM-1-32L-40-40K8	B1-U0-G1	B1-U0-G1	B1-U0-G1
HRM-1-32L-40-50K7	B1-U0-G1	B1-U0-G1	B1-U0-G1
HRM-1-32L-40-50K8	B1-U0-G1	B1-U0-G1	B1-U0-G1
HRM-1-32L-53-27K7	B1-U0-G1	B1-U0-G1	B1-U0-G1
HRM-1-32L-53-27K8	B1-U0-G1	B1-U0-G1	B1-U0-G1
HRM-1-32L-53-30K7	B1-U0-G1	B1-U0-G1	B1-U0-G2
HRM-1-32L-53-30K8	B1-U0-G1	B1-U0-G1	B1-U0-G1
HRM-1-32L-53-35K8	B1-U0-G1	B1-U0-G1	B1-U0-G1
HRM-1-32L-53-40K7	B1-U0-G1	B1-U0-G1	B1-U0-G2
HRM-1-32L-53-40K8	B1-U0-G1	B1-U0-G1	B1-U0-G1
HRM-1-32L-53-50K7	B1-U0-G1	B1-U0-G1	B1-U0-G2
HRM-1-32L-53-50K8	B1-U0-G1	B1-U0-G1	B1-U0-G1
HRM-1-32L-7-27K7	B1-U0-G1	B1-U0-G1	B1-U0-G2
HRM-1-32L-7-27K8	B1-U0-G1	B1-U0-G1	B1-U0-G1
HRM-1-32L-7-30K7	B2-U0-G2	B2-U0-G2	B1-U0-G2
HRM-1-32L-7-30K8	B1-U0-G1	B1-U0-G1	B1-U0-G2
HRM-1-32L-7-35K8	B1-U0-G1	B1-U0-G1	B1-U0-G2
HRM-1-32L-7-40K7	B2-U0-G2	B2-U0-G2	B1-U0-G2
HRM-1-32L-7-40K8	B1-U0-G1	B1-U0-G1	B1-U0-G2
HRM-1-32L-7-50K7	B2-U0-G2	B2-U0-G2	B1-U0-G2
HRM-1-32L-7-50K8	B1-U0-G1	B1-U0-G1	B1-U0-G2
HRM-1-32L-1-27K7	B2-U0-G2	B2-U0-G2	B2-U0-G2
HRM-1-32L-1-27K8	B2-U0-G2	B2-U0-G2	B2-U0-G2
HRM-1-32L-1-30K7	B2-U0-G2	B2-U0-G2	B2-U0-G2
HRM-1-32L-1-30K8	B2-U0-G2	B2-U0-G2	B2-U0-G2
HRM-1-32L-1-35K8	B2-U0-G2	B2-U0-G2	B2-U0-G2
HRM-1-32L-1-40K7	B2-U0-G2	B2-U0-G2	B2-U0-G2
HRM-1-32L-1-40K8	B2-U0-G2	B2-U0-G2	B2-U0-G2
HRM-1-32L-1-50K7	B2-U0-G2	B2-U0-G2	B2-U0-G2
HRM-1-32L-1-50K8	B2-U0-G2	B2-U0-G2	B2-U0-G2

BUG RATING CHARTS - SILICONE MICRO OPTICS

SILICONE MICRO OPTICS - 48 LED			
Part Number	STANDARD		PERFORMANCE
	T2	T3	T4FTW
HRM-1-48L-40-27K7	B1-U0-G1	B1-U0-G1	B1-U0-G2
HRM-1-48L-40-27K8	B1-U0-G1	B1-U0-G1	B1-U0-G1
HRM-1-48L-40-30K7	B2-U0-G1	B2-U0-G1	B1-U0-G2
HRM-1-48L-40-30K8	B1-U0-G1	B1-U0-G1	B1-U0-G1
HRM-1-48L-40-35K8	B1-U0-G1	B1-U0-G1	B1-U0-G1
HRM-1-48L-40-40K7	B2-U0-G1	B2-U0-G2	B1-U0-G2
HRM-1-48L-40-40K8	B1-U0-G1	B1-U0-G1	B1-U0-G2
HRM-1-48L-40-50K7	B2-U0-G1	B2-U0-G2	B1-U0-G2
HRM-1-48L-40-50K8	B1-U0-G1	B1-U0-G1	B1-U0-G2
HRM-1-48L-53-27K7	B2-U0-G1	B2-U0-G2	B1-U0-G2
HRM-1-48L-53-27K8	B1-U0-G1	B1-U0-G1	B1-U0-G1
HRM-1-48L-53-30K7	B2-U0-G2	B2-U0-G2	B1-U0-G2
HRM-1-48L-53-30K8	B2-U0-G1	B2-U0-G1	B1-U0-G2
HRM-1-48L-53-35K8	B2-U0-G1	B2-U0-G1	B1-U0-G2
HRM-1-48L-53-40K7	B2-U0-G2	B2-U0-G2	B1-U0-G2
HRM-1-48L-53-40K8	B2-U0-G1	B2-U0-G2	B1-U0-G2
HRM-1-48L-53-50K7	B2-U0-G2	B2-U0-G2	B1-U0-G2
HRM-1-48L-53-50K8	B2-U0-G1	B2-U0-G2	B1-U0-G2
HRM-1-48L-7-27K7	B2-U0-G2	B2-U0-G2	B1-U0-G2
HRM-1-48L-7-27K8	B2-U0-G1	B2-U0-G2	B1-U0-G2
HRM-1-48L-7-30K7	B2-U0-G2	B2-U0-G2	B2-U0-G2
HRM-1-48L-7-30K8	B2-U0-G2	B2-U0-G2	B1-U0-G2
HRM-1-48L-7-35K8	B2-U0-G2	B2-U0-G2	B1-U0-G2
HRM-1-48L-7-40K7	B2-U0-G2	B2-U0-G2	B2-U0-G2
HRM-1-48L-7-40K8	B2-U0-G2	B2-U0-G2	B1-U0-G2
HRM-1-48L-7-50K7	B2-U0-G2	B2-U0-G2	B2-U0-G2
HRM-1-48L-7-50K8	B2-U0-G2	B2-U0-G2	B1-U0-G2
HRM-1-48L-9-27K7	B2-U0-G2	B2-U0-G2	B2-U0-G2
HRM-1-48L-9-27K8	B2-U0-G2	B1-U0-G2	B1-U0-G2
HRM-1-48L-9-30K7	B2-U0-G2	B2-U0-G2	B2-U0-G2
HRM-1-48L-9-30K8	B2-U0-G2	B2-U0-G2	B2-U0-G2
HRM-1-48L-9-35K8	B2-U0-G2	B2-U0-G2	B2-U0-G2
HRM-1-48L-9-40K7	B3-U0-G2	B2-U0-G2	B2-U0-G2
HRM-1-48L-9-40K8	B2-U0-G2	B2-U0-G2	B2-U0-G2
HRM-1-48L-9-50K7	B3-U0-G2	B2-U0-G2	B2-U0-G2
HRM-1-48L-9-50K8	B2-U0-G2	B2-U0-G2	B2-U0-G2

BUG RATING CHARTS - STAR POWER OPTICS

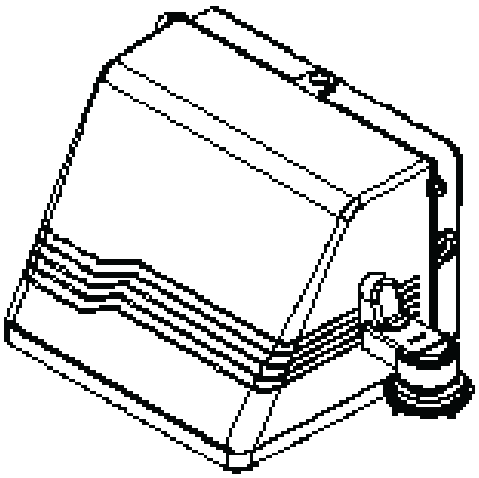
STAR POWER OPTICS - 16 LED	
Part Number	**T4LG**
HRM-1-T4LG-16L-53-27K7	B0-U0-G0
HRM-1-T4LG-16L-53-27K8	B0-U0-G0
HRM-1-T4LG-16L-53-30K7	B0-U0-G0
HRM-1-T4LG-16L-53-30K8	B0-U0-G0
HRM-1-T4LG-16L-53-35K8	B0-U0-G0
HRM-1-T4LG-16L-53-40K7	B0-U0-G0
HRM-1-T4LG-16L-53-40K8	B0-U0-G0
HRM-1-T4LG-16L-53-50K7	B0-U0-G0
HRM-1-T4LG-16L-53-50K8	B0-U0-G0
HRM-1-T4LG-16L-7-27K7	B1-U0-G1
HRM-1-T4LG-16L-7-27K8	B1-U0-G1
HRM-1-T4LG-16L-7-30K7	B1-U0-G1
HRM-1-T4LG-16L-7-30K8	B1-U0-G1
HRM-1-T4LG-16L-7-35K8	B1-U0-G1
HRM-1-T4LG-16L-7-40K7	B1-U0-G1
HRM-1-T4LG-16L-7-40K8	B1-U0-G1
HRM-1-T4LG-16L-7-50K7	B1-U0-G1
HRM-1-T4LG-16L-7-50K8	B1-U0-G1
HRM-1-T4LG-16L-1-27K7	B1-U0-G1
HRM-1-T4LG-16L-1-27K8	B1-U0-G1
HRM-1-T4LG-16L-1-30K7	B1-U0-G1
HRM-1-T4LG-16L-1-30K8	B1-U0-G1
HRM-1-T4LG-16L-1-35K8	B1-U0-G1
HRM-1-T4LG-16L-1-40K7	B1-U0-G1
HRM-1-T4LG-16L-1-40K8	B1-U0-G1
HRM-1-T4LG-16L-1-50K7	B1-U0-G1
HRM-1-T4LG-16L-1-50K8	B1-U0-G1

STAR POWER OPTICS - 32 LED	
Part Number	**T4LG**
HRM-1-T4LG-32L-53-27K7	B1-U0-G1
HRM-1-T4LG-32L-53-27K8	B1-U0-G1
HRM-1-T4LG-32L-53-30K7	B1-U0-G1
HRM-1-T4LG-32L-53-30K8	B1-U0-G1
HRM-1-T4LG-32L-53-35K8	B1-U0-G1
HRM-1-T4LG-32L-53-40K7	B1-U0-G1
HRM-1-T4LG-32L-53-40K8	B1-U0-G1
HRM-1-T4LG-32L-53-50K7	B1-U0-G1
HRM-1-T4LG-32L-53-50K8	B1-U0-G1
HRM-1-T4LG-32L-7-27K7	B1-U0-G1
HRM-1-T4LG-32L-7-27K8	B1-U0-G1
HRM-1-T4LG-32L-7-30K7	B1-U0-G1
HRM-1-T4LG-32L-7-30K8	B1-U0-G1
HRM-1-T4LG-32L-7-35K8	B1-U0-G1
HRM-1-T4LG-32L-7-40K7	B1-U0-G1
HRM-1-T4LG-32L-7-40K8	B1-U0-G1
HRM-1-T4LG-32L-7-50K7	B1-U0-G1
HRM-1-T4LG-32L-7-50K8	B1-U0-G1

FSP-221B-D WITH MOTION SENSOR (FSP-XX)

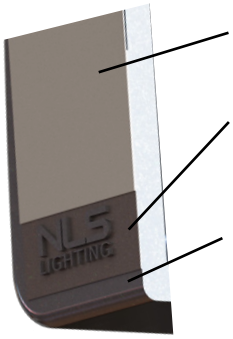
- FSP-221B-D (FSP-X)—Passive infrared (PIR) sensor providing multi-level control based on motion/daylight contribution.
- All control parameters adjustable via wireless configuration remote storing and transmitting sensor profiles.
- 100-347VAC Single Phase), 208/230/480VAC (Phase to Phase)
- FSP-8 mounting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

FSP-221B-D



MARINE GRADE FINISH (MGF)

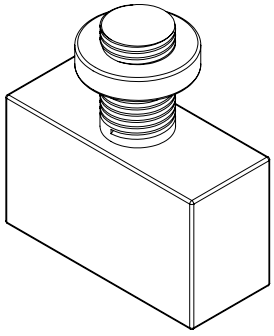
The (MGF) is a multi step process. Chemically washed in a 5 stage cleaning system. Pre-baked. Powder coated 3-5 mil of Zinc Rich Super Durable Polyester Primer. Oven Baked. Finished Powder Coating of Super Durable Polyester Powder Coat 3-5 mil thickness.



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

BUTTON PHOTOCELL

Photocell for dusk to dawn operation.
Consult Factory.