

LED WATTAGE CHART

DRIVE CURRENT	16L
175 milliamps	10w (1206-1273 Lumens)
400 milliamps	21w (2478-2911 Lumens)
530 milliamps	28w (3508-3776 Lumens)
700 milliamps	36w (4385-4720 Lumens)
1050 milliamps	56w (6022-6482 Lumens)

FORM

- Elegant Rectilinear Extruded 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 T2, T3, T4FTW, T5W
- 0-10V Dimming Drivers THD @ Max Load < 15% Power factor @ Max Load < 0.95
- Amber, Amber/PC, 2700K, 3000K, 3500K, 4000K, or 5000K
- 16L LED Configuration
- 10-56 Watts
- CRI 70, 80, or 90
- Extruded Aluminum Heat Sink
- 5 Mils Powder Coat

RELIABILITY

- Silicone Micro Optics
- 5 Year Standard Warranty
- IP67 Optics
- Reduces Energy Consumption And Costs Up To 65%

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 American Act), or BABA (Build America, Buy America).



Project Name:

Type:

TWL ORDERING GUIDE

Cat#	Light Dist.	# of LEDs	Drive Current	Color Temp./CRI
Trac Linear Pole Mount (TWL-P)	Type 2 (T2)	16 (16L)	175 (175)	Amber 585-600nm (AMBER) 4, 6, 7
	Type 3 (T3)		400 (40)	Amber LED Phosphor Converted (AMBER/PC) 6, 7
	Type 4 Forward Throw Wide (T4FTW)		530 (53)	2700K, 70 CRI (27K7)
	Type 5 Wide (T5W)		700 (7)	2700K, 80 CRI (27K8) 1
			1050 (1)	3000K, 70 CRI (30K7)
				3000K, 80 CRI (30K8) 1
				3500K, 80 CRI (35K8)
				4000K, 70 CRI (40K7)
				4000K, 80 CRI (40K8) 1
				5000K, 70 CRI (50K7)
			5000K, 80 CRI (50K8) 1	

Voltage	Mounting	Color	Options
120-277 (UNV)	Architectural Sweep Arm (ASA)	Bronze Textured (BRZ)	Button Photo Cell (PC)
347-480 (HV)	Direct Pole Arm (DPS3)	White Textured (WHT)	Marine Grade Finish (MGF)
	Knuckle Mount (KM)	Smooth White Gloss (SWT)	Emergency Battery 8W (EM8)
	Mast Arm Mount (MAM)	Silver Metallic (SVR)	Buy American Act (BAA) 5
	Square Mount (SQ)	Black Textured (BLK)	Trade Agreement Act (TAA) 5
	Tennis Arm Mount (TAM)	Smooth Black Gloss (SBK)	Build America Buy American (BABA) 5
		Graphite Textured (GPH)	Custom Controls Integration (CCI) 3
		Grey Textured (GRY)	GFI Kit (GFI) 8
		Green Textured (GRN)	
		Hunter Green Textured (HGN)	
		Custom (CS)	

NOTES:

1. Consult Factory for Lead Time. Consult Factory for 90 CRI Requests.
2. Please contact Factory for Custom Control Integration requests (nLight, NX, WaveLinx, Crestron, DMX/RDM, Synapse, Casambi, Dali II, Avi-On, or other control systems)
3. Turtle Safe
4. Consult factory for all BAA/TAA/BABA requests
5. Consult Factory for Lead Time
6. Not Available above 530mA
7. GFCI installed 12" from base, street side. Contact Factory for custom height



701 Kingshill Place, Carson, CA 90746
Call Us Today (310) 341-2037

nlsighting.com

PRODUCT SPECIFICATIONS

ELECTRICAL

- 120-277 Volts (UNV) or 347-480 Volts (HV)
- 0-10V dimming driver by Philips Advance
- 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 compartment
- CRI 70, 80, or 90
- Color temperatures: Amber, 2700K, 3000K, 3500K, 4000K, 5000K
- Surge Protection: 20KA.

CONSTRUCTION

- Formed Aluminum
- Internal cooling fins
- Corrosion resistant external hardware
- One-piece silicone gasket ensures water tight seal for electronics compartment
- Two-piece silicone Micro Optic system ensures IP67 seal around each PCB

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.
- Emergency Battery Backup 8W (EM8)

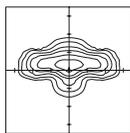
CONTROLS

- Button Type Photo Cell (PC)
- 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)

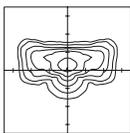
OPTICS

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

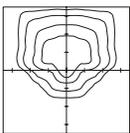
- IES Types



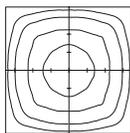
TYPE II (T2)



TYPE III (T3)



TYPE IV FORWARD (T4FTW)



TYPE V WIDE (T5W)

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.

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 standards0
- CSA C22.2 No. 250.0
- IP67 Rated Optics
- IK10 Rated

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://nslighting.com/buy-american/>



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.

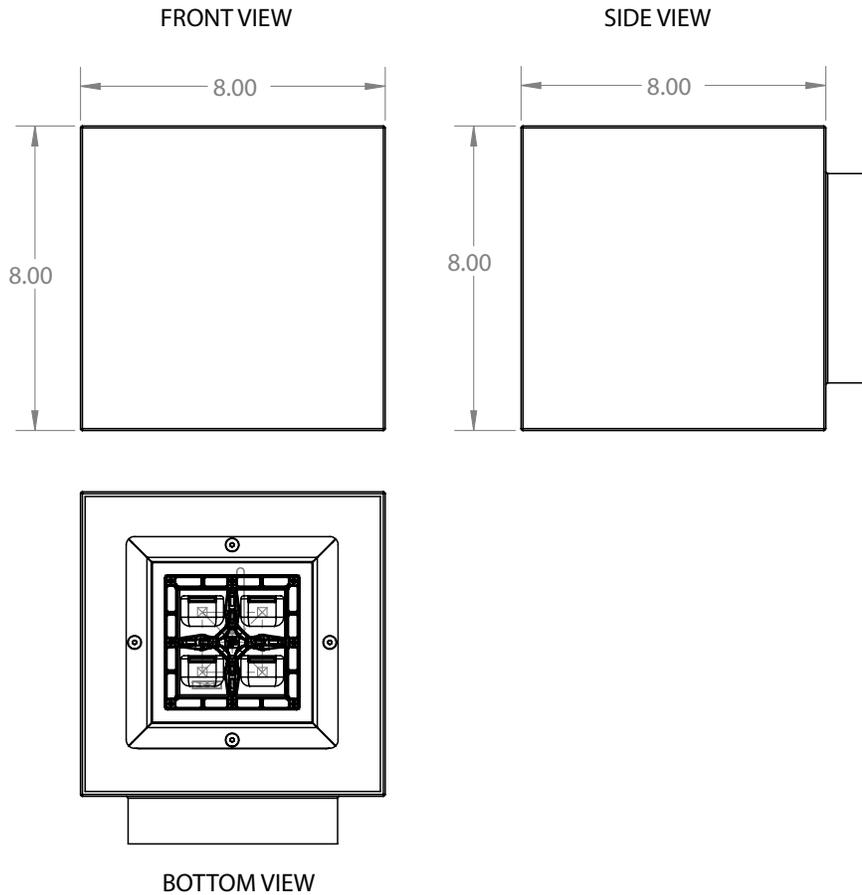


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Call Us Today (310) 341-2037

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PRODUCT SPECIFICATIONS

MODEL	WEIGHT
TWL-P	7.13 LBS



LED KELVIN RANGE



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	48,000	143,000	94.3%	89.5%	87.2%	78.5%

*Reported extrapolations per IESNA TM-21

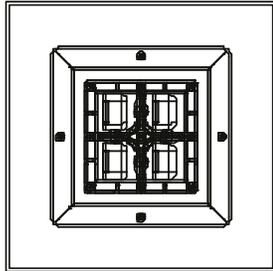
**Projected extrapolations per IESNA TM-21

PRODUCT SPECIFICATIONS

OPTICAL CONFIGURATIONS

Rotatable Optics (ROR) Rotated Right, (ROL) Rotated Left options available. Optics field and factory rotatable.

TWL / 16L



EPA CHART

TWL-P	ASA		DPS-3		KM		SQUARE		TA		MA	
	EPA (ft ²)	lbs										
Front	0.37	6.1	0.37	5.1	0.37	6.1	0.37	4.3	0.37	5.9	0.37	7.6
Side	0.63		0.43		0.53		0.53		0.61		0.43	

PRODUCT SPECIFICATIONS

TWL-P LUMEN CHART

TWL-P LUMEN CHART										
PART NUMBER	T4FTW	LM/W	BUG	T5W	LM/W	BUG	T2	LM/W	BUG	WATTAGE
TWL-P-16L-175-27K7	1092	109	B0-U0-G1	1184	118	B1-U0-G1	1235	123	B0-U0-G1	10
TWL-P-16L-175-27K8	1018	102	B0-U0-G1	1104	110	B1-U0-G1	1151	115	B0-U0-G1	10
TWL-P-16L-175-30K7	1268	127	B0-U0-G1	1375	137	B1-U0-G1	1433	143	B0-U0-G1	10
TWL-P-16L-175-30K8	1099	110	B0-U0-G1	1191	119	B1-U0-G1	1242	124	B0-U0-G1	10
TWL-P-16L-175-35K8	1102	110	B0-U0-G1	1196	120	B1-U0-G1	1247	125	B0-U0-G1	10
TWL-P-16L-175-40K7	1300	130	B0-U0-G1	1410	141	B1-U0-G1	1470	147	B0-U0-G1	10
TWL-P-16L-175-40K8	1170	117	B0-U0-G1	1269	127	B1-U0-G1	1323	132	B0-U0-G1	10
TWL-P-16L-175-50K7	1300	130	B0-U0-G1	1410	141	B1-U0-G1	1470	147	B0-U0-G1	10
TWL-P-16L-175-50K8	1170	117	B0-U0-G1	1269	127	B1-U0-G1	1323	132	B0-U0-G1	10
TWL-P-16L-4-27K7	2134	102	B1-U0-G1	2346	112	B2-U0-G1	2434	116	B1-U0-G1	21
TWL-P-16L-4-27K8	1990	95	B1-U0-G1	2187	104	B2-U0-G1	2269	108	B1-U0-G1	21
TWL-P-16L-4-30K7	2477	118	B1-U0-G1	2723	130	B2-U0-G1	2826	135	B1-U0-G1	21
TWL-P-16L-4-30K8	2147	102	B1-U0-G1	2360	112	B2-U0-G1	2449	117	B1-U0-G1	21
TWL-P-16L-4-35K8	2155	103	B1-U0-G1	2368	113	B2-U0-G1	2458	117	B1-U0-G1	21
TWL-P-16L-4-40K7	2541	121	B1-U0-G1	2793	133	B2-U0-G1	2898	138	B1-U0-G1	21
TWL-P-16L-4-40K8	2287	109	B1-U0-G1	2514	120	B2-U0-G1	2608	124	B1-U0-G1	21
TWL-P-16L-4-50K7	2541	121	B1-U0-G1	2793	133	B2-U0-G1	2898	138	B1-U0-G1	21
TWL-P-16L-4-50K8	2287	109	B1-U0-G1	2514	120	B2-U0-G1	2608	124	B1-U0-G1	21
TWL-P-16L-53-27K7	2611	93	B1-U0-G1	2893	103	B2-U0-G1	3011	108	B1-U0-G1	28
TWL-P-16L-53-27K8	2434	87	B1-U0-G1	2697	96	B2-U0-G1	2806	100	B1-U0-G1	28
TWL-P-16L-53-30K7	3030	108	B1-U0-G2	3358	120	B2-U0-G1	3494	125	B1-U0-G1	28
TWL-P-16L-53-30K8	2626	94	B1-U0-G1	2910	104	B3-U0-G1	3028	108	B1-U0-G1	28
TWL-P-16L-53-35K8	2636	94	B1-U0-G1	2921	104	B2-U0-G1	3039	109	B1-U0-G1	28
TWL-P-16L-53-40K7	3108	111	B1-U0-G2	3444	123	B3-U0-G1	3584	128	B1-U0-G1	28
TWL-P-16L-53-40K8	2797	100	B1-U0-G2	3100	111	B3-U0-G1	3226	115	B1-U0-G1	28
TWL-P-16L-53-50K7	3108	111	B1-U0-G2	3444	123	B3-U0-G1	3584	128	B1-U0-G1	28
TWL-P-16L-53-50K8	2797	100	B1-U0-G2	3100	111	B3-U0-G1	3226	115	B1-U0-G1	28
TWL-P-16L-7-27K7	3054	85	B1-U0-G2	3417	95	B3-U0-G1	3568	99	B1-U0-G1	36
TWL-P-16L-7-27K8	2847	79	B1-U0-G2	3185	88	B3-U0-G1	3326	92	B1-U0-G1	36
TWL-P-16L-7-30K7	3545	98	B1-U0-G2	3966	110	B3-U0-G1	4142	115	B1-U0-G1	36
TWL-P-16L-7-30K8	3072	85	B1-U0-G2	3437	95	B3-U0-G1	3590	100	B1-U0-G1	36
TWL-P-16L-7-35K8	3083	86	B1-U0-G2	3450	96	B3-U0-G1	3602	100	B1-U0-G1	36
TWL-P-16L-7-40K7	3636	101	B1-U0-G2	4068	113	B3-U0-G1	4248	118	B1-U0-G1	36
TWL-P-16L-7-40K8	3272	91	B1-U0-G2	3661	102	B3-U0-G1	3823	106	B1-U0-G1	36
TWL-P-16L-7-50K7	3636	101	B1-U0-G2	4068	113	B3-U0-G1	4248	118	B1-U0-G1	36
TWL-P-16L-7-50K8	3272	91	B1-U0-G2	3661	102	B3-U0-G1	3823	106	B1-U0-G1	36
TWL-P-16L-1-27K7	4647	83	B1-U0-G2	5208	93	B3-U0-G2	5452	97	B1-U0-G1	56
TWL-P-16L-1-27K8	4332	77	B1-U0-G2	4855	87	B3-U0-G2	5082	91	B1-U0-G1	56
TWL-P-16L-1-30K7	5394	96	B1-U0-G2	6045	108	B3-U0-G2	6328	113	B1-U0-G1	56
TWL-P-16L-1-30K8	4675	83	B1-U0-G2	5239	94	B3-U0-G2	5484	98	B1-U0-G1	56
TWL-P-16L-1-35K8	4691	84	B1-U0-G2	5258	94	B3-U0-G2	5504	98	B1-U0-G1	56
TWL-P-16L-1-40K7	5532	99	B1-U0-G2	6200	111	B3-U0-G2	6490	116	B1-U0-G1	56
TWL-P-16L-1-40K8	4979	89	B1-U0-G2	5580	100	B3-U0-G2	5841	104	B1-U0-G1	56
TWL-P-16L-1-50K7	5532	99	B1-U0-G2	6200	111	B3-U0-G2	6490	116	B1-U0-G1	56
TWL-P-16L-1-50K8	4979	89	B1-U0-G2	5580	100	B3-U0-G2	5841	104	B1-U0-G1	56

PRODUCT SPECIFICATIONS

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

BUTTON PHOTOCELL

Photo Cell for dusk to dawn operation.

