PRECISION P2 PARAGON
EFFICIENCY, ECONOMY, SUSTAINABILITY.

www.P-2.com

(714) 386-5550 CA
(715) 381-2971 WI
(352) 692-5900 FL

TMD Series – LED Loading Dock Light

Up to 97% Less Electricity

- TMD Series LED Loading Dock Lights require far less energy than traditional fixtures while accomplishing the same lighting task.

Lower Maintenance Costs

- Based on our advanced thermal management techniques the TMD will perform over time where many competing offerings will not.

Higher Quality Lighting

- TMD Series LED Loading Dock Lights deliver a better quality of light than the incandescent, quartz or metal halide fixtures traditionally used in loading dock applications.

Real Cost Savings

- When you combine the energy savings, longevity and quality of our TMD Series Loading Dock Lights, the cost savings can be enormous.

Precision Lighting's Experience

- While many manufacturers promise long life and maintenance free performance from their LED products, it takes a real expert to create a fixture that delivers on that promise.
- Precision Lighting's experience lets us deliver on the promise of LED lighting technology.

Long Life, Low Wattage LED Load Light

Application

- Industrial, manufacturing and warehousing.
- Designed to illuminate tractor trailers up to 53' while loading and unloading.
- Excellent for any application requiring long life and low maintenance costs.

TMD – 14W – SP – 50K – 12C – UL – 350 – C6

TMD	14W	SP	50K	12C	UL	350	C6		
Fixture Series	Input Watts	Optics	Color Temp.	LED Chip Quantity	Voltage	Drive Current	Cord Plug	Other	Other

Fixture Series
TMD = Load Light

Input Watts
14W = 14 Watt (12 Chip, 350mA)
16W = 16 Watt (6 Chip, 700mA)
21W = 21 Watt (18 Chip, 350mA)
21W = 21 Watt (12 Chip, 520mA)

Optics
SP = 12° Spot (Standard)
DSP = 32° Diffused Flood

Qty of LED Chips
6C = 6 Chip Board
12C = 12 Chip Board
18C = 18 Chip Board

Voltage
UL = 120 through 277 volt

Drive Current
350 = 350 mA Across Chip
520 = 520 mA Across Chip*
700 = 700 mA Across Chip**
* Available only with 21W 12C
** Available only with 16W 6C

Other
IRS = In-Line Rocker Switch (120 V only)
CP = Clear Polycarbonate Lens

Color Temperature
50K = 5000 Kelvin

Dock Arms*
SD40 = 40" Single Strut Dock Arm
DL40 = 40" Double Strut Dock Arm
DSDL40 = 40" Double Strut Swing Arm
* Additional configurations available

Cord and Plug
C6 = 6' Cord, No Plug
C6/L715 = 6' Cord & 277v Twistlock Plug (NEMA L7-15P)
C6/515 = 6' Cord & 120v Convenience Plug (NEMA 5-15P)
C3/C14 = 3' Cord & 120v Dedicated Dock Arm Plug (IEC C-14P)

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TMD Series – LED Loading Dock Light

Fixture Construction

- Die cast aluminum body designed for maximum heat dissipation.
- Designed to meet IP66 standards.
- Sealed tempered glass lens.
- Stainless steel fasteners.
- Powered by Evolucia light engines using high quality Cree LED chips.
- Dedicated constant current driver.
- Advanced thermal management techniques and components.

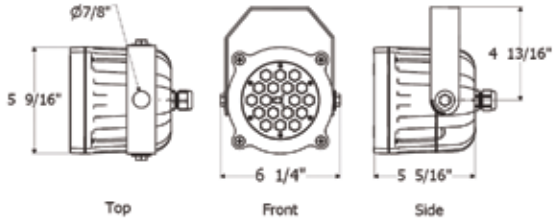
Our Commitment

Just as when we were at the front end of the fluorescent Hi-bay development curve, Precision commits extensive resources to the thermal design and testing of our LED fixtures.

Why? Because heat is directly related to the usable life of LED components. Our thermal management focus allows us to deliver on the promise of LED, without the risk of premature failure.

Our commitment is that any product that bears our name can be specified with confidence, knowing that we have taken the steps necessary to ensure maximum component life and future serviceability.

Shown with DL40 Double Strut Dock Arm



TMD – LED Performance Data

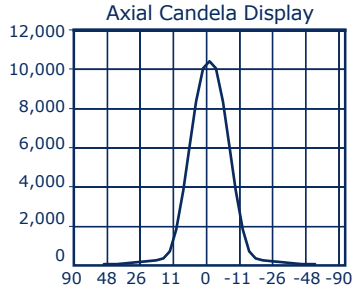
LED System Configuration	Drive Current	Qty LED Chips	Initial Lumens	At 25C (77F) Ambient			At 35C (98F) Ambient		
				Junction Temp (1)	L70 Hours	L90 Hours	Junction Temp (1)	L70 Hours	L90 Hours
TMD - 14 Watt Spot	350mA	12	1163	48.9	210,000	60,000	59.1	140,000	40,000
TMD - 16 Watt Spot	700mA	6	825	60.9	100,000	32,000	71.2	80,000	24,000
TMD - 21 Watt Spot	350mA	18	1506	58.1	140,000	42,000	68.4	98,000	30,000

1) The junction temperature of the LED chip is the single most important factor determining expected life and lumen maintenance.
2) LED chip manufacturers project 70% lumen maintenance at 50,000 hours, provided JT is maintained below 80°C.
3) L70 represents expected hours the chip will maintain 70% of its initial lumens, based on TMD measured JT and Cree chip data.
4) L90 represents expected hours the chip will maintain 90% of its initial lumens, based on TMD measured JT and Cree chip data.
5) The table above refers to LED component life. Driver life expectancy is 50,000 hours @ 25C ambient.

TMD vs. Traditional Load Light – Operating Cost Comparison

Load Light System	Input Watts	Rated Lamp Life (Hours)	Average Annual Cost of Operation		
			Energy Cost	Maint Cost	Total Cost
Q500 T3 Quartz	500	2,000	$240	$60	$300
Q300 T3 Quartz	300	2,000	$144	$60	$204
MH70 Med	88	12,000	$42	$27	$69
MH100 Med	119	15,000	$57	$24	$81
MH150 Med	186	15,000	$89	$24	$113
100 PAR	100	3,000	$48	$47	$95
TMD - 14 Watt LED	14	210,000	$7	-	$7
TMD - 16 Watt LED	16	100,000	$8	-	$8
TMD - 21 Watt LED	21	140,000	$10	-	$10

TMD-15W-SP
Axial Candela Display



1) All operating cost estimates are for general illustrative purposes. Actual values will vary on a site specific basis.
2) Annual maintenance and energy costs are estimated based upon 4,000 annual operating hours per year, for 10 years.
3) Energy costs are based upon $0.12 cents per kWh; maintenance cost estimates include lamps, ballasts and labor.