

Catalog Number _____
 Type _____
 Date _____
 Prepared By _____
 Project _____



The EN2 LED is an energy-efficient harsh environment LED vaportight series designed to operate in commercial, institutional, and industrial applications that require a watertight seal. The LED vaportight series is designed to operate in temperatures from -30°C (-22°F) to 45°C (113°F) and is ideal for indoor and outdoor applications including parking garages, canopies, food processing, and cold storage. EN2 LED is Designlights™ Consortium (DLC) listed for Fuel Pump Canopy Luminaires and Parking Garage Luminaires. NSF (National Sanitation Foundation) Listed for Splash Zone operation.

HOUSING 1-piece, corrosion proof reinforced fiberglass housing. Housing material to be UL 5VA noncombustible and f1 rated as suitable for outdoor use with respect to exposure to ultraviolet light, water, and immersion in accordance with UL 746C. Gasket to be a seamless, custom formulated, poured-in-place, urethane gasket, chemically attached to the housing and robotically applied to ensure consistency, accuracy, and reliability. IP67 rated for dust-free and water-free ingress protection (temporary submersion for 30 minutes).

LEDS 4' fixtures available in 3 light levels (delivered): 3600 lumens (46W), 4900 lumens (56W), and 7200 lumens (92W). 8' fixtures are available in 2 light levels (delivered): 7200 lumens (92W), and 9700 lumens (125W). LEDs are 4100K CCT, >80 CRI standard. Other color temperatures available; consult factory for lead times. LED operating life is up to 85,000 hours (L70) LEDs are LM-80 tested. Light engines consist of 128, 256 or 512 LED multi chip packages mounted to a metal core PC board.

ELECTRICAL High efficiency LED power supply 120V-277V operation. Power factor >0.9. 0-10V dimmable. One power supply used in 46W and 56W units. Two power supplies used in 92W and 125W units. Power supply output current is 1500 mA (46W and 92W units) and 2100 mA (56W and 125W units).

GEAR TRAY/LENS/LATCHING Gear tray to be die-formed, heavy gauge steel

with high-gloss, baked white polyester finish over rust inhibiting phosphate coat. Five injection-molded lenses available: Ribbed Frosted Acrylic (RFA), Ribbed Clear Acrylic (RA), Ribbed Polycarbonate (RP), Deep Clear Acrylic with Frosted Ends (DA) and Deep Frosted Acrylic (DFA). EN2 LED units are standard with LED boards mounted to flat gear tray. Angled gear trays for wide-angle distribution are available. Lens is held securely in place by the fixtures' 8 (4' units) or 14 (8' units) polycarbonate latches. Lens latches to be tool-free Delrin, positive lock over-center cam latches, tamper-proof ready. Optional stainless steel latches recommended for food applications and environments in which compounds known to compromise polyoxymethylene may be used.

MOUNTING Mounting to be surface, ceiling, or wall capable. Optional stainless steel brackets or swivel brackets are available for mounting without drilling into the housing. Safety strap included.

LISTINGS UL-cUL, IP67. NSF Certified Splash Zone. EN2 LED DesignLights™ Consortium Listed fixtures available for Parking Garage and Fuel Pump Canopy categories. See configuration information below ordering tables.

WARRANTY 5 year limited warranty.

EN2 LED Performance

	Size	Input Power	Light Output*	Equivalent Fluorescent/HID ¹
EN2LED4RFAF4641U1	4'	46W	3600 Lumens	(2) 32WT8 or (2) 28WT5 Fluorescent
EN2LED4RFAF5641U1	4'	56W	4900 Lumens	(2) 32WT8, (2) 28WT5 or 150-175W Metal Halide
EN2LED4RFAF9241U1	4'	92W	7200 Lumens	(2) 54WT5HO Fluorescent
EN2LED8RFAF9241U1	8'	92W	7200 Lumens	(4) 32WT8 Fluorescent
EN2LED8RFAF12541U1	8'	125W	9700 Lumens	(4) 54WT5HO Fluorescent

*Delivered lumens

¹ Consult a lighting engineer to meet specific requirements.

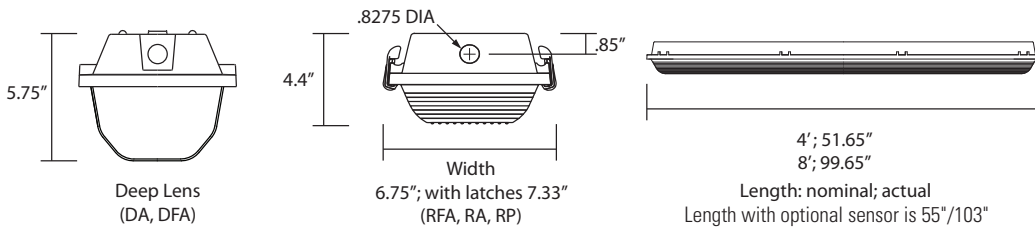
Projected LED Lumen Maintenance

Operating Hours	0	25,000	50,000	85,000
Lumen Maintenance Factor	1.0	0.93	0.83	0.72

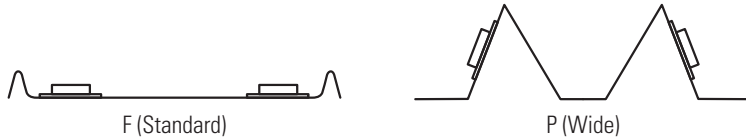
Projected Lumen Maintenance data refers to extrapolated performance projections for EN2 LED platform in a 25° C ambient environment based on 10,000 hours of LED testing per IESNA LM80-08 and projected per IESNA TM-21-11.

Dimensions

EN2 LED 4' and 8' LED Vaportight Series



Gear Tray/Distribution SEE ORDER OPTIONS FOR DLC REQUIREMENTS



EN2 LED Ordering Information See information below table for DLC Listed ordering info

SERIES	SIZE	LENS	GEAR TRAY/DISTRIBUTION	WATTAGE / LIGHT OUTPUT	COLOR
EN2LED	4 = 4' 8 = 8'	RFA = Ribbed frosted 100% injection molded high impact acrylic RA = Ribbed 100% injection molded high impact acrylic RP = Ribbed injection molded polycarbonate DA = Clear, frosted-end deep acrylic (required for DLC Listed Parking Garage) DFA = Deep Frosted Acrylic	F = Standard; DLC Listed Fuel Pump Canopy Luminaire (required with DLCC option.) P = Wide; DLC Listed Parking Garage Luminaire (required with DLCP option)	<i>4' UNITS ONLY</i> 46 = 46W / 3600 Lumens (Non-DLC only) 56 = 56W / 4900 Lumens <i>4' AND 8' UNITS</i> 92 = 92W / 7200 Lumens <i>8' UNITS</i> 125 = 125W / 9700 Lumens	35 = 3500K 41 = 4100K (standard) 50 = 5000K

VOLTAGE	OPTIONS
U1 = 120-277	<p>BP = Bulk Pack</p> <p>WLH = Wet Location Hub ELS = Emergency Power Supply (Consult factory)</p> <p>ENTS = Tamperproof screws ENTSD = Tamperproof screwdriver</p> <p><i>STAINLESS STEEL MOUNTING BRACKETS (2)</i> EN2MB = Standard EN2SMB = Swiveling</p> <p>SSL = Stainless Steel Latches (recommended for food applications and environments in which compounds known to compromise polyoxymethylene may be used.) OS¹ = Individual Fixture PIR Occupancy Sensor* CP3¹ = Cord & Plug-120V Straight Blade with 6' Cord* CPT(xx)¹ = Cord & Plug: Twist + Lock with 6' Cord*; (specify voltage: 12 = 120, 20 = 208, 24 = 240, 27 = 277)</p> <p><i>For cords without plugs, please contact factory.</i></p> <p><i>DESIGNLIGHTS CONSORTIUM QUALIFIED</i> DLCC = DLC Listed Fuel Pump Canopy Luminaire; 56W, 92W, and 125W only. Includes RA or RFA lens and F gear tray. 4100K. See configuration below. DLCP = DLC Listed Parking Garage Luminaire. 56, 92W, and 125W only. Includes DA lens and P gear tray. 4100K. See configuration below.</p>

*UL Damp Location Rated
1 Fixture not IP67 Rated with option installed

DLC Listed Fuel Pump Canopy Luminaire Configurations

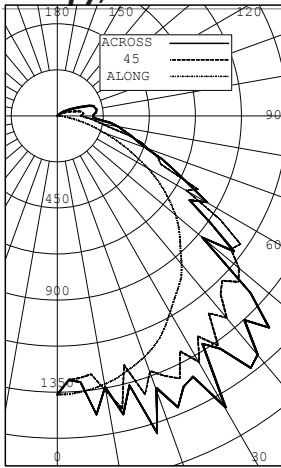
EN2LED4RFAF5641U1DLCC
EN2LED4RFAF9241U1DLCC
EN2LED4RAF5641U1DLCC
EN2LED4RAF9241U1DLCC
EN2LED8RFAF9241U1DLCC
EN2LED8RAF12541U1DLCC
EN2LED8RAF9241U1DLCC
EN2LED8RAF1251U1DLCC

DLC Listed Parking Garage Luminaire Configurations

EN2LED4DAP5641U1DLCP
EN2LED4DAP9241U1DLCP
EN2LED8DAP9241U1DLCP
EN2LED8DAP12541U1DLCP

Photometric Data EN2LED4RAF5641U1DLCC (DLC Fuel Canopy)

EN2 LED 4' and 8' LED Vaportight Series



ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LUMINAIRE
0-30	1144	22.99
0-40	1941	39.01
0-60	3614	72.64
0-90	4701	94.48
40-90	2760	55.47
60-90	1087	21.84
90-180	275	5.52
0-180	4976	100.00

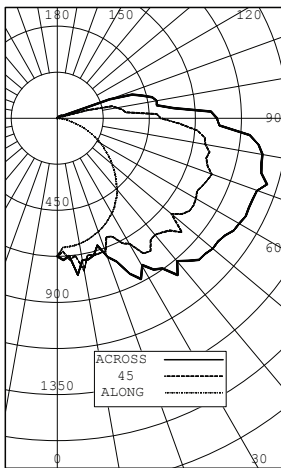
EFFICACY (LUMENS PER WATT): 89.5

LUMINANCE SUMMARY CD./SQ.M.

ANGLE	ALONG	45	ACROSS
45	6077	6628	7889
55	5655	7241	5499
65	4503	4463	4463
75	2952	3732	3272
85	1816	2625	2451

S/MH: 1.7
SC Along: 1.2
SC Across 1.7

Photometric Data EN2LED4DA5641U1DLCP (DLC Parking Garage)



ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LUMINAIRE
0-30	583	11.87
0-40	1037	21.13
0-60	2250	45.84
0-90	4289	87.39
40-90	3253	66.27
60-90	2040	41.56
90-180	619	12.61
0-180	4908	100.00

EFFICACY (LUMENS PER WATT): 89.2

LUMINANCE SUMMARY CD./SQ.M.

ANGLE	ALONG	45	ACROSS
45	2887	3954	4447
55	2603	4407	4836
65	2298	4993	5525
75	1703	5812	6376
85	1499	7009	7183

S/MH: 2.0
SC Along: 1.2
SC Across 2.0

DLC GARAGE

56W

lighting facts
A Program of the U.S. DOE

Light Output (Lumens) **5094**
Watts **54.98**
Lumens per Watt (Efficacy) **92**

Color Accuracy
Color Rendering Index (CRI) **84**

Light Color
Correlated Color Temperature (CCT) **3854 (Bright White)**

Warranty** **Yes**

All results, except LED Lumen Maintenance, are according to IESNA LM-79-2008. Approved Method for the Electrical and Photometric Testing of Solid State Lighting. The U.S. Department of Energy (DOE) verifies product test data and results.

** See www.lightingfacts.com/products for details.

Registration Number: SZBC-CM54LY (7/12/2013)
Model Number: EN2LED4DAP5641U1DLCP
Type: Parking garage fixture

92W

lighting facts
A Program of the U.S. DOE

Light Output (Lumens) **7454**
Watts **91.44**
Lumens per Watt (Efficacy) **81**

Color Accuracy
Color Rendering Index (CRI) **85**

Light Color
Correlated Color Temperature (CCT) **3882 (Bright White)**

Warranty** **Yes**

All results, except LED Lumen Maintenance, are according to IESNA LM-79-2008. Approved Method for the Electrical and Photometric Testing of Solid State Lighting. The U.S. Department of Energy (DOE) verifies product test data and results.

** See www.lightingfacts.com/products for details.

Registration Number: SZBC-T35CVY (7/9/2013)
Model Number: EN2LED4DAP9241U1DLCP
Type: Parking garage fixture

DLC FUEL PUMP CANOPY

56W

lighting facts
A Program of the U.S. DOE

Light Output (Lumens) **5267**
Watts **55.28**
Lumens per Watt (Efficacy) **95**

Color Accuracy
Color Rendering Index (CRI) **85**

Light Color
Correlated Color Temperature (CCT) **3856 (Bright White)**

Warranty** **Yes**

All results, except LED Lumen Maintenance, are according to IESNA LM-79-2008. Approved Method for the Electrical and Photometric Testing of Solid State Lighting. The U.S. Department of Energy (DOE) verifies product test data and results.

** See www.lightingfacts.com/products for details.

Registration Number: SZBC-GD33SZ (7/16/2013)
Model Number: EN2LED4RAF5641U1DLCC
Type: Canopy light

92W

lighting facts
A Program of the U.S. DOE

Light Output (Lumens) **7767**
Watts **90.17**
Lumens per Watt (Efficacy) **86**

Color Accuracy
Color Rendering Index (CRI) **85**

Light Color
Correlated Color Temperature (CCT) **3887 (Bright White)**

Warranty** **Yes**

All results, except LED Lumen Maintenance, are according to IESNA LM-79-2008. Approved Method for the Electrical and Photometric Testing of Solid State Lighting. The U.S. Department of Energy (DOE) verifies product test data and results.

** See www.lightingfacts.com/products for details.

Registration Number: SZBC-G8J3BM (7/23/2013)
Model Number: EN2LED4RAF9241U1DLCC
Type: Canopy light