

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P457528

Luminaire Tested: **GALN-SA8D-827-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457528
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8D-827-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47924 lumens
Efficiency: N/A
Efficacy: 97.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

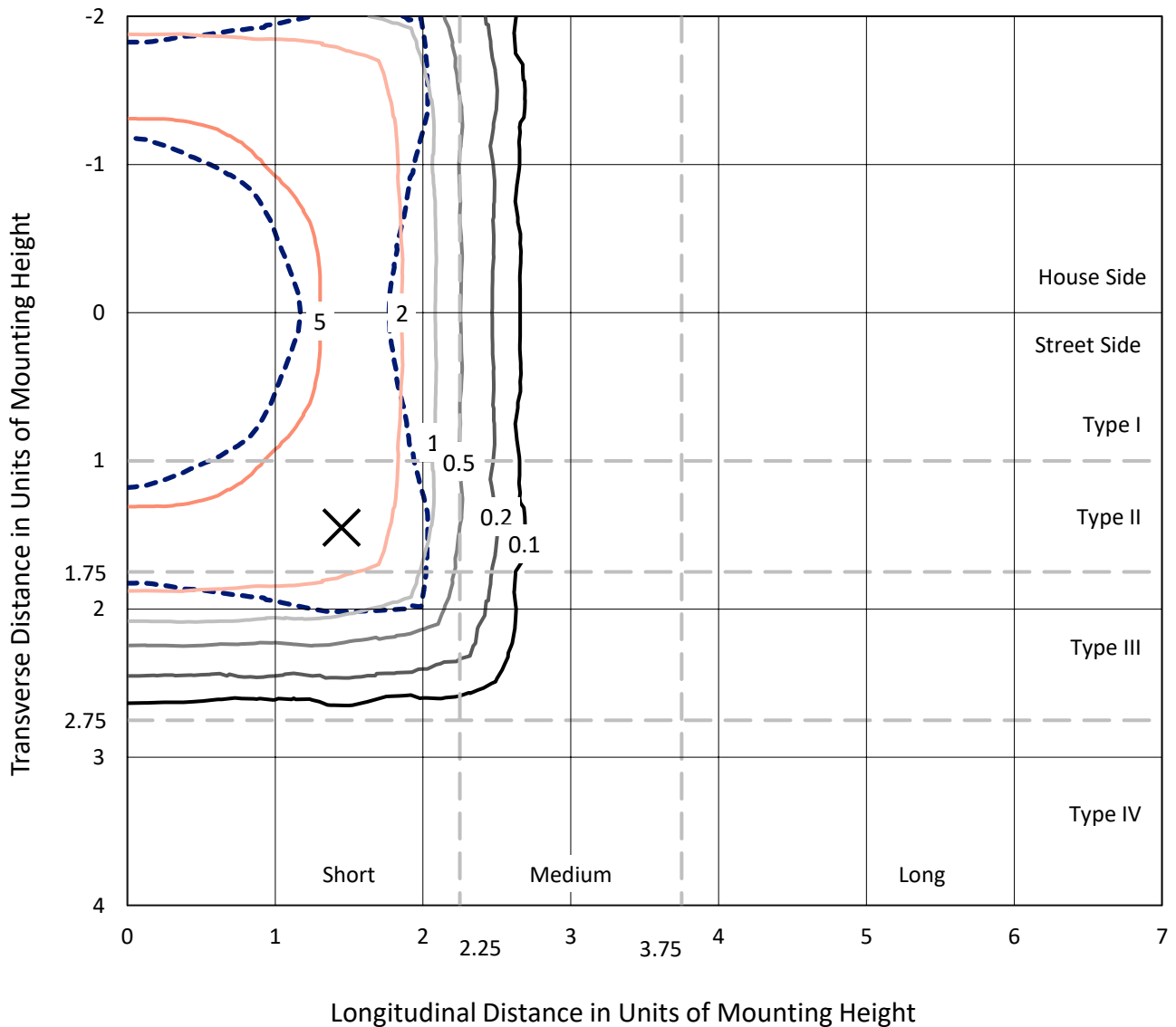
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

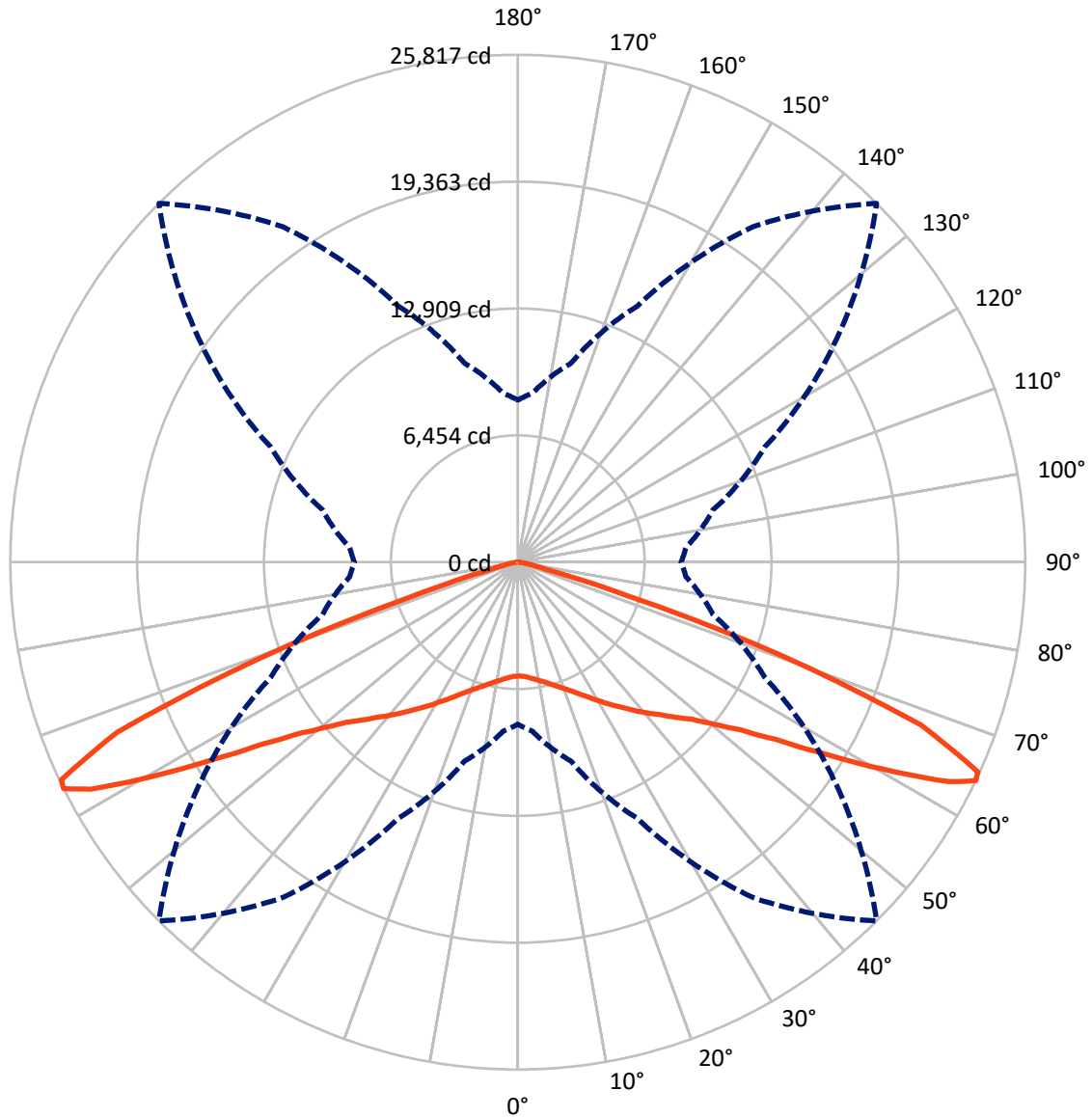
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	23962.0	0.0	23962.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	23962.0	0.0	23962.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	47924.0	0.0	47924.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	569.1	1.2
10°-20°	1835.6	3.8
20°-30°	3468.8	7.2
30°-40°	5744.7	12.0
40°-50°	8968.4	18.7
50°-60°	13864.9	28.9
60°-70°	11955.5	24.9
70°-80°	1354.9	2.8
80°-90°	162.3	0.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	47924.0	100.0
0°-180°	47924.0	100.0

Coefficient of Utilization



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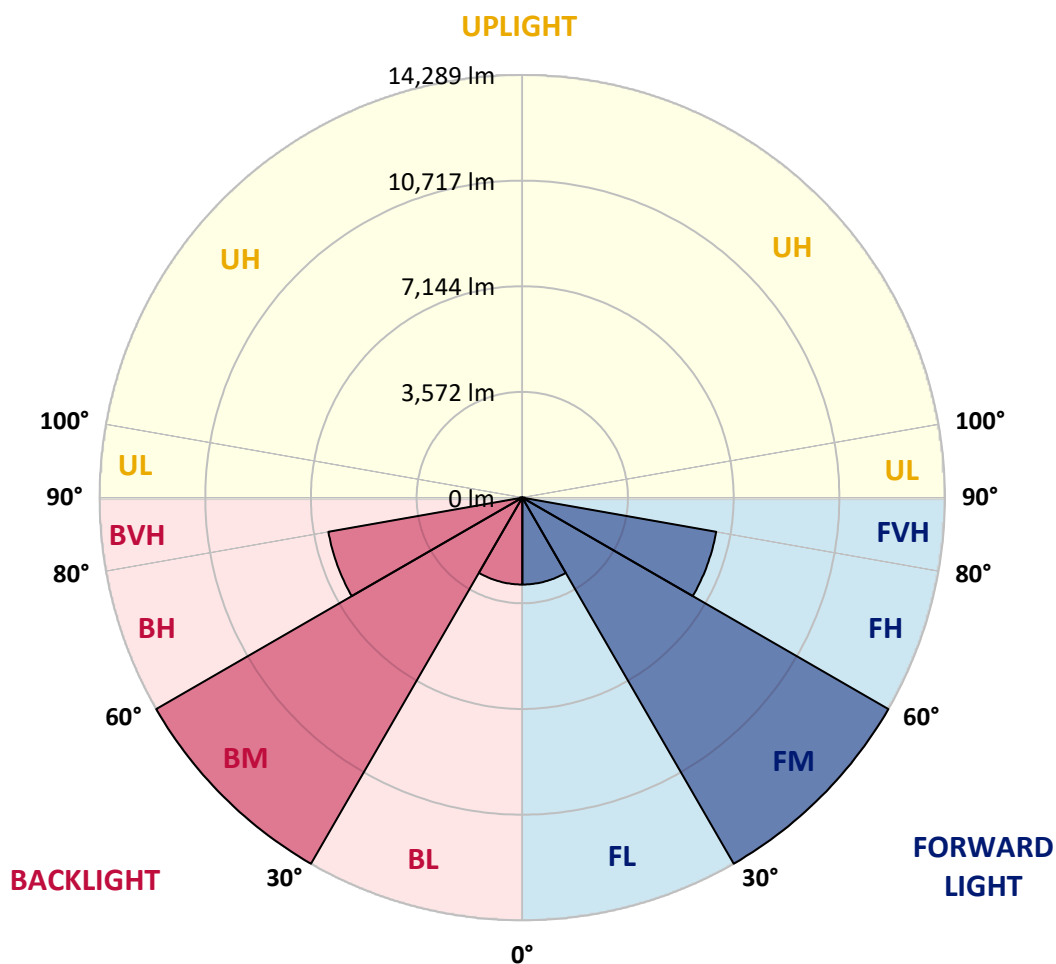
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2936.7	6.1			
FM	(30°-60°)	14288.9	29.8			
FH	(60°-80°)	6655.2	13.9			G3/7500
FVH	(80°-90°)	81.2	0.2			G1/100
BL	(0°-30°)	2936.7	6.1	B4/5000		
BM	(30°-60°)	14288.9	29.8	B5		
BH	(60°-80°)	6655.2	13.9	B5		G3/7500
BVH	(80°-90°)	81.2	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5792.4	5792.4	5792.4	5792.4	5792.4	5792.4	5792.4	5792.4	5792.4	5792.4	5792.4
2.5°	5815.3	5828.0	5817.8	5815.3	5812.7	5812.7	5812.7	5815.3	5825.4	5833.0	5828.0
5°	5888.9	5899.0	5894.0	5891.4	5888.9	5888.9	5886.3	5883.8	5891.4	5891.4	5888.9
7.5°	5980.3	5992.9	5987.9	5992.9	5995.5	5998.0	5985.3	5975.2	5972.6	5980.3	5975.2
10°	6104.6	6114.8	6117.3	6119.9	6124.9	6122.4	6107.2	6089.4	6086.9	6084.3	6081.8
12.5°	6244.2	6251.9	6254.4	6264.5	6272.2	6274.7	6256.9	6241.7	6216.3	6221.4	6211.2
15°	6401.6	6416.8	6414.3	6429.5	6449.8	6454.9	6437.2	6411.8	6388.9	6376.2	6368.6
17.5°	6594.5	6604.7	6599.6	6614.8	6640.2	6652.9	6637.7	6604.7	6581.8	6553.9	6538.7
20°	6823.0	6840.7	6845.8	6845.8	6868.7	6881.4	6858.5	6848.4	6812.8	6792.5	6779.8
22.5°	7081.9	7089.5	7104.7	7120.0	7142.8	7137.7	7130.1	7114.9	7081.9	7064.1	7043.8
25°	7373.8	7381.4	7419.5	7452.5	7460.1	7455.0	7444.9	7437.2	7406.8	7366.2	7350.9
27.5°	7713.9	7729.2	7779.9	7810.4	7810.4	7812.9	7792.6	7818.0	7752.0	7703.8	7698.7
30°	8140.4	8150.5	8193.7	8224.1	8208.9	8196.2	8191.1	8216.5	8145.4	8059.1	8038.8
32.5°	8561.7	8597.3	8635.3	8701.3	8648.0	8625.2	8620.1	8637.9	8556.6	8460.2	8432.3
35°	9013.5	9038.9	9110.0	9165.8	9117.6	9064.3	9087.1	9143.0	9046.5	8917.1	8912.0
37.5°	9513.6	9536.4	9627.8	9686.2	9650.7	9559.3	9597.3	9663.3	9566.9	9407.0	9374.0
40°	10033.9	10082.2	10196.4	10257.3	10198.9	10077.1	10148.2	10219.2	10132.9	9947.6	9874.0
42.5°	10617.7	10693.9	10858.9	10889.3	10777.7	10612.7	10737.0	10851.3	10790.4	10577.1	10549.2
45°	11300.6	11346.2	11549.3	11615.3	11460.5	11254.9	11409.7	11617.8	11572.2	11325.9	11272.6
47.5°	12064.6	12107.7	12318.4	12417.4	12222.0	11945.3	12224.5	12496.1	12468.2	12204.2	12178.8
50°	12968.2	12978.4	13270.3	13382.0	13186.5	12947.9	13196.7	13534.3	13422.6	13085.0	13079.9
52.5°	13958.2	13970.9	14338.9	14554.7	14445.5	14176.5	14470.9	14676.5	14392.2	13950.5	13917.5
55°	14816.1	14879.6	15382.2	15955.8	16105.6	15910.1	15999.0	15902.5	15201.9	14582.6	14486.1
57.5°	15166.4	15290.8	16054.8	17126.0	18100.7	18390.0	17704.7	16785.8	15524.3	14648.6	14554.7
60°	14311.0	14445.5	15630.9	17664.1	20151.6	21408.1	19481.5	16935.6	14790.7	13559.6	13412.4
62.5°	11460.5	11498.5	13242.4	16397.5	21347.2	24601.3	20230.3	15658.8	12656.0	10983.3	10924.9
64°	8247.0	8637.9	10485.8	14377.0	20824.3	25817.1	19798.8	13869.3	10280.2	8587.1	8313.0
65°	6168.1	6274.7	8452.6	12277.8	19902.9	25725.8	18961.2	12158.5	8513.5	6571.7	6267.1
67.5°	2330.2	2342.9	3119.6	6119.9	14168.8	22134.1	14470.9	6614.8	3586.6	2594.2	2500.2
70°	967.1	984.9	1144.8	2058.6	6089.4	14212.0	6977.8	2386.0	1312.3	1063.6	1048.3
72.5°	708.2	718.3	766.6	913.8	1873.3	5835.6	2294.6	1012.8	769.1	687.9	680.3
75°	555.9	561.0	596.5	672.7	873.2	1616.9	954.4	695.5	586.3	528.0	522.9
77.5°	423.9	436.6	462.0	512.7	586.3	766.6	632.0	520.4	451.8	403.6	396.0
80°	291.9	307.1	355.4	375.7	393.4	497.5	431.5	393.4	352.8	294.4	276.7
82.5°	180.2	190.4	238.6	256.4	248.8	279.2	276.7	281.8	251.3	182.8	170.1
85°	93.9	99.0	129.5	134.5	124.4	114.2	142.1	165.0	154.8	104.1	101.5
87.5°	20.3	22.8	27.9	25.4	27.9	27.9	35.5	53.3	55.8	35.5	33.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)