

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: P457543

Luminaire Tested: **GALN-SA8D-827-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457543
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-5)
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-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45840 lumens
Efficiency: N/A
Efficacy: 93.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

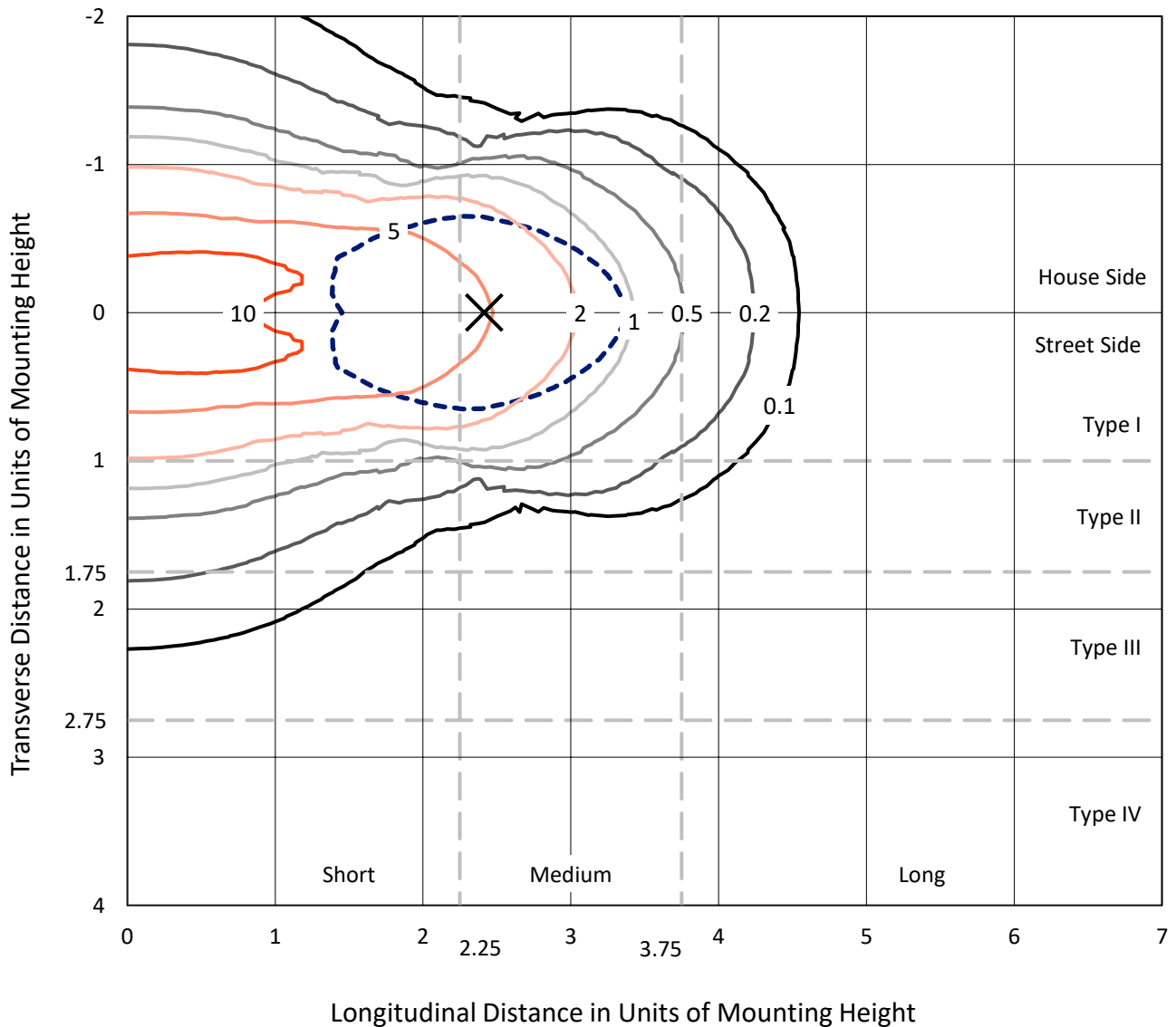
Input Watts (W): 493
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

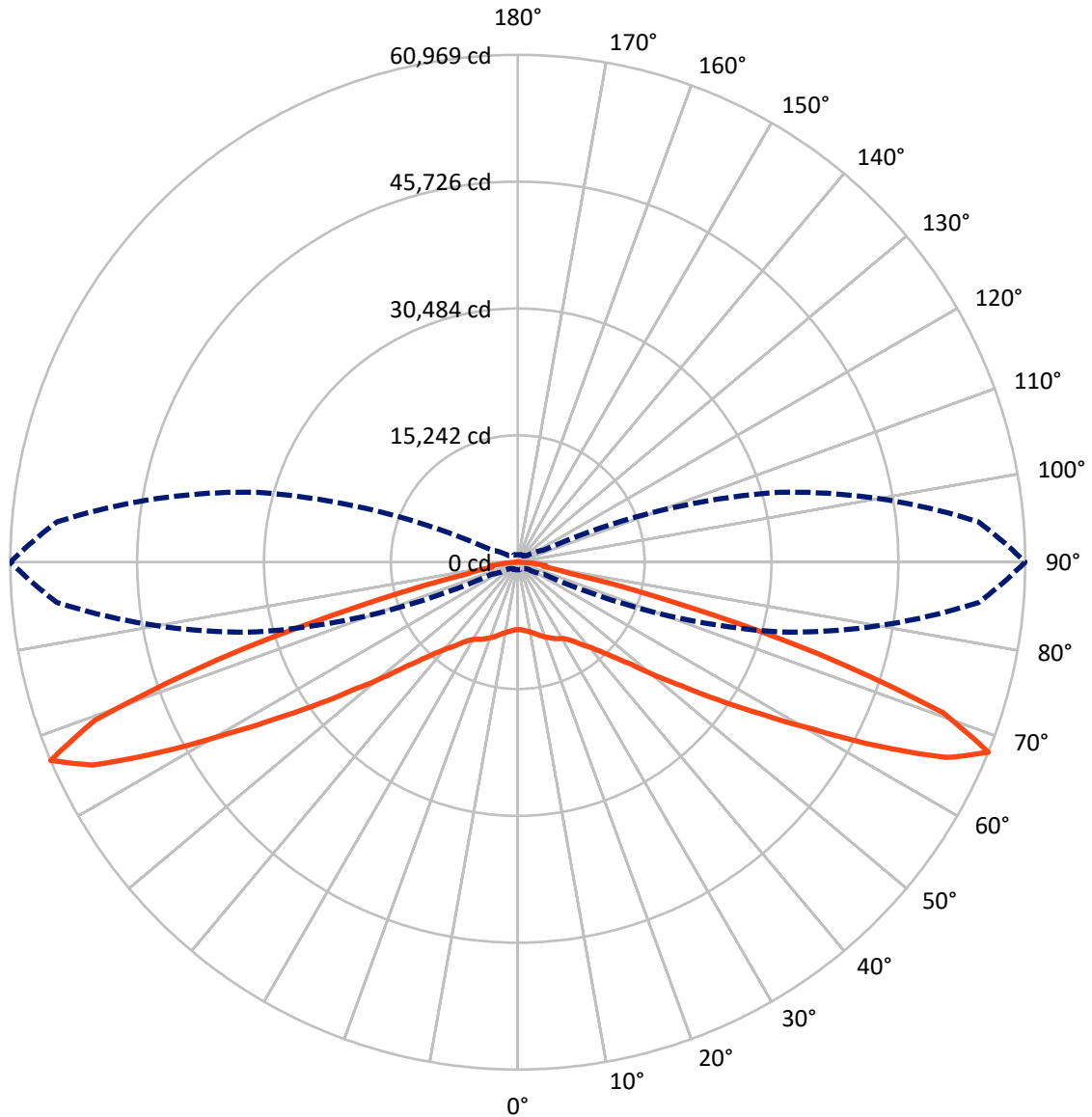
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.6 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	22920.0	0.0	22920.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	22920.0	0.0	22920.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	45840.0	0.0	45840.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	809.1	1.8
10°-20°	2588.6	5.6
20°-30°	4332.7	9.5
30°-40°	5869.6	12.8
40°-50°	7434.8	16.2
50°-60°	9288.0	20.3
60°-70°	10917.6	23.8
70°-80°	4176.5	9.1
80°-90°	423.1	0.9
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°	45840.0	100.0
0°-180°	45840.0	100.0

Coefficient of Utilization



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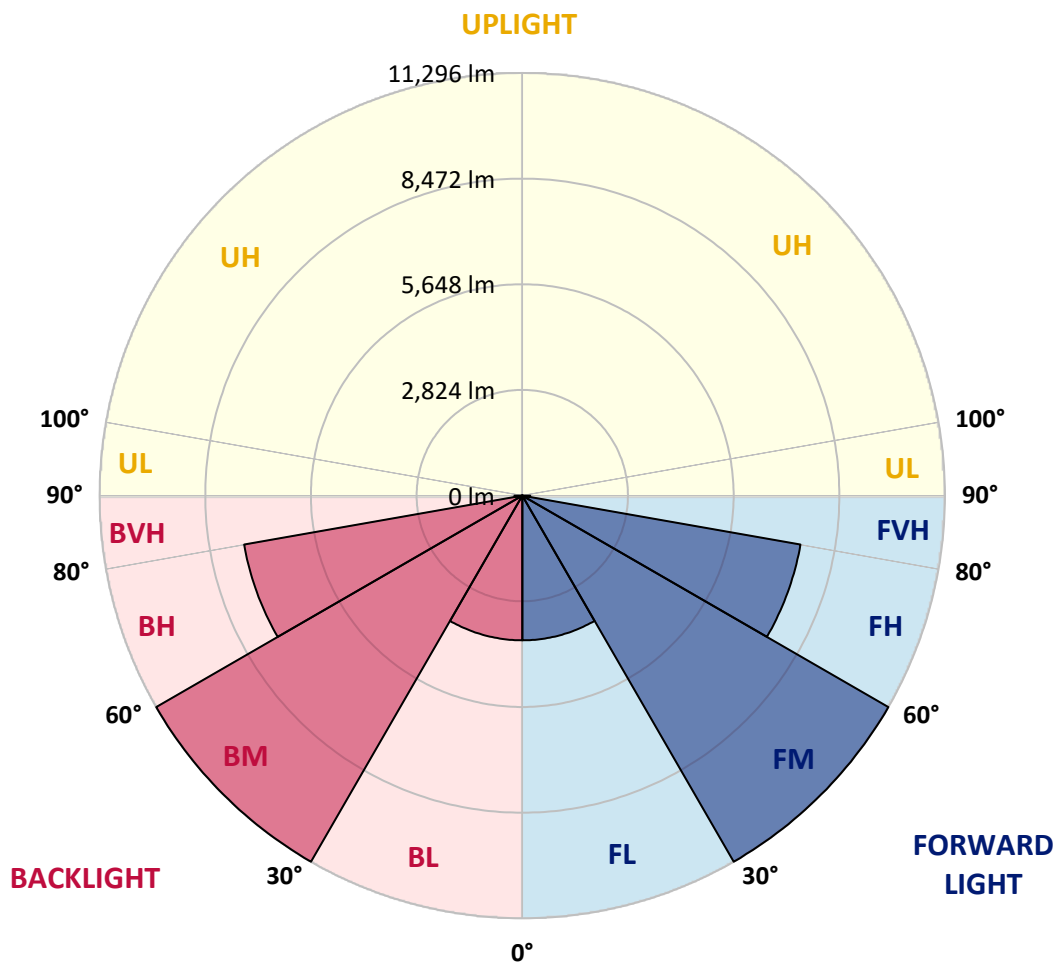
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3865.2	8.4			
FM (30°-60°)	11296.2	24.6			
FH (60°-80°)	7547.0	16.5			G4/12000
FVH (80°-90°)	211.6	0.5			G2/225
BL (0°-30°)	3865.2	8.4	B4/5000		
BM (30°-60°)	11296.2	24.6	B5		
BH (60°-80°)	7547.0	16.5	B5		G5
BVH (80°-90°)	211.6	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	8115.1	8115.1	8115.1	8115.1	8115.1	8115.1	8115.1	8115.1	8115.1	8115.1	8115.1
2.5°	8219.2	8214.1	8216.6	8214.1	8221.7	8216.6	8186.2	8160.8	8140.5	8143.0	8135.4
5°	8394.3	8396.9	8399.4	8386.7	8404.5	8394.3	8346.1	8305.5	8264.9	8249.6	8244.6
7.5°	8539.0	8551.7	8559.3	8572.0	8602.5	8602.5	8577.1	8518.7	8429.9	8379.1	8376.6
10°	8683.7	8693.9	8716.7	8757.3	8808.1	8856.3	8846.2	8767.5	8653.2	8566.9	8546.6
12.5°	8734.5	8747.2	8823.3	8940.1	9054.3	9148.2	9148.2	9084.8	8937.5	8805.5	8767.5
15°	8556.8	8579.6	8716.7	8965.5	9265.0	9470.6	9516.3	9427.4	9270.1	9067.0	9021.3
17.5°	8203.9	8259.8	8460.3	8828.4	9325.9	9752.3	9884.3	9841.2	9638.1	9379.2	9325.9
20°	7825.7	7886.7	8099.9	8587.2	9275.1	9917.3	10300.6	10310.8	10059.5	9683.8	9605.1
22.5°	7409.4	7455.1	7729.3	8300.4	9122.8	9955.4	10658.5	10833.7	10493.5	9988.4	9876.7
25°	6942.4	6993.2	7280.0	7896.8	8836.0	9912.3	10986.0	11371.8	10947.9	10313.3	10171.2
27.5°	6495.6	6515.9	6823.1	7450.1	8457.8	9800.6	11227.1	11866.8	11450.5	10582.4	10402.2
30°	6066.7	6114.9	6386.5	7005.8	8023.7	9582.3	11435.3	12430.3	11991.2	10864.1	10633.2
32.5°	5612.3	5670.7	5965.1	6592.1	7589.7	9254.8	11562.2	13047.1	12745.1	11321.0	11074.8
35°	5175.7	5213.8	5510.8	6120.0	7165.8	8874.1	11585.0	13742.6	13717.2	12014.0	11686.6
37.5°	4728.9	4784.8	5084.3	5668.1	6716.5	8470.5	11470.8	14481.3	14890.0	12976.0	12623.2
40°	4300.0	4348.2	4642.6	5231.5	6206.3	7978.0	11199.2	15156.5	16258.1	13966.0	13466.0
42.5°	3832.9	3845.6	4168.0	4767.0	5706.2	7406.9	10808.3	15758.1	17783.7	15293.6	14671.7
45°	3302.4	3335.4	3634.9	4223.8	5132.5	6767.2	10277.8	16255.6	19717.9	17133.9	16286.1
47.5°	2771.9	2799.8	3073.9	3655.2	4505.6	6033.7	9460.4	16692.2	21702.9	19471.7	18359.9
50°	2254.1	2269.3	2492.7	3007.9	3799.9	5262.0	8447.6	16831.8	23946.8	22781.7	21362.8
52.5°	1781.9	1804.8	1974.8	2378.4	3046.0	4350.7	7353.6	16486.6	26566.4	26706.0	24705.8
55°	1444.3	1451.9	1578.9	1875.8	2381.0	3396.3	6033.7	15524.6	29383.9	31734.5	29183.4
57.5°	1243.8	1248.9	1319.9	1484.9	1832.7	2561.2	4680.7	13704.6	31914.7	37626.0	34346.4
60°	1129.6	1132.1	1172.7	1269.2	1451.9	1964.7	3353.2	11135.7	34412.4	44182.5	40763.4
62.5°	1058.5	1058.5	1086.4	1139.7	1228.6	1507.8	2429.2	8033.9	36123.3	50835.5	48672.9
65°	990.0	990.0	1010.3	1048.3	1096.6	1233.6	1794.6	5239.2	36080.1	55681.3	56628.1
67.5°	911.3	911.3	926.5	964.6	992.5	1061.0	1385.9	3431.9	32409.7	55574.7	60968.6
70°	817.3	817.3	837.7	870.7	893.5	936.7	1094.0	2348.0	23809.7	47451.9	54221.7
72.5°	723.4	726.0	738.7	771.7	789.4	814.8	908.7	1644.9	14605.7	32310.7	37912.8
75°	619.4	624.4	637.1	670.1	685.4	695.5	766.6	1172.7	7389.1	17420.7	19834.7
77.5°	500.1	510.2	517.8	553.4	563.5	578.7	632.0	847.8	3244.0	6259.6	6315.4
80°	365.5	378.2	401.1	434.1	441.7	451.8	482.3	601.6	1469.7	2858.2	3104.4
82.5°	269.1	286.8	258.9	302.1	302.1	289.4	340.1	403.6	675.2	2830.3	3386.2
85°	147.2	149.8	134.5	154.8	165.0	162.5	180.2	198.0	327.4	1888.5	1946.9
87.5°	35.5	38.1	40.6	48.2	58.4	58.4	63.5	55.8	106.6	611.7	350.3
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)