

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: P533456

Luminaire Tested: **GALN-SA8D-827-U-RW-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533456
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-8)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-827-U-RW-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40238 lumens
Efficiency: N/A
Efficacy: 81.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

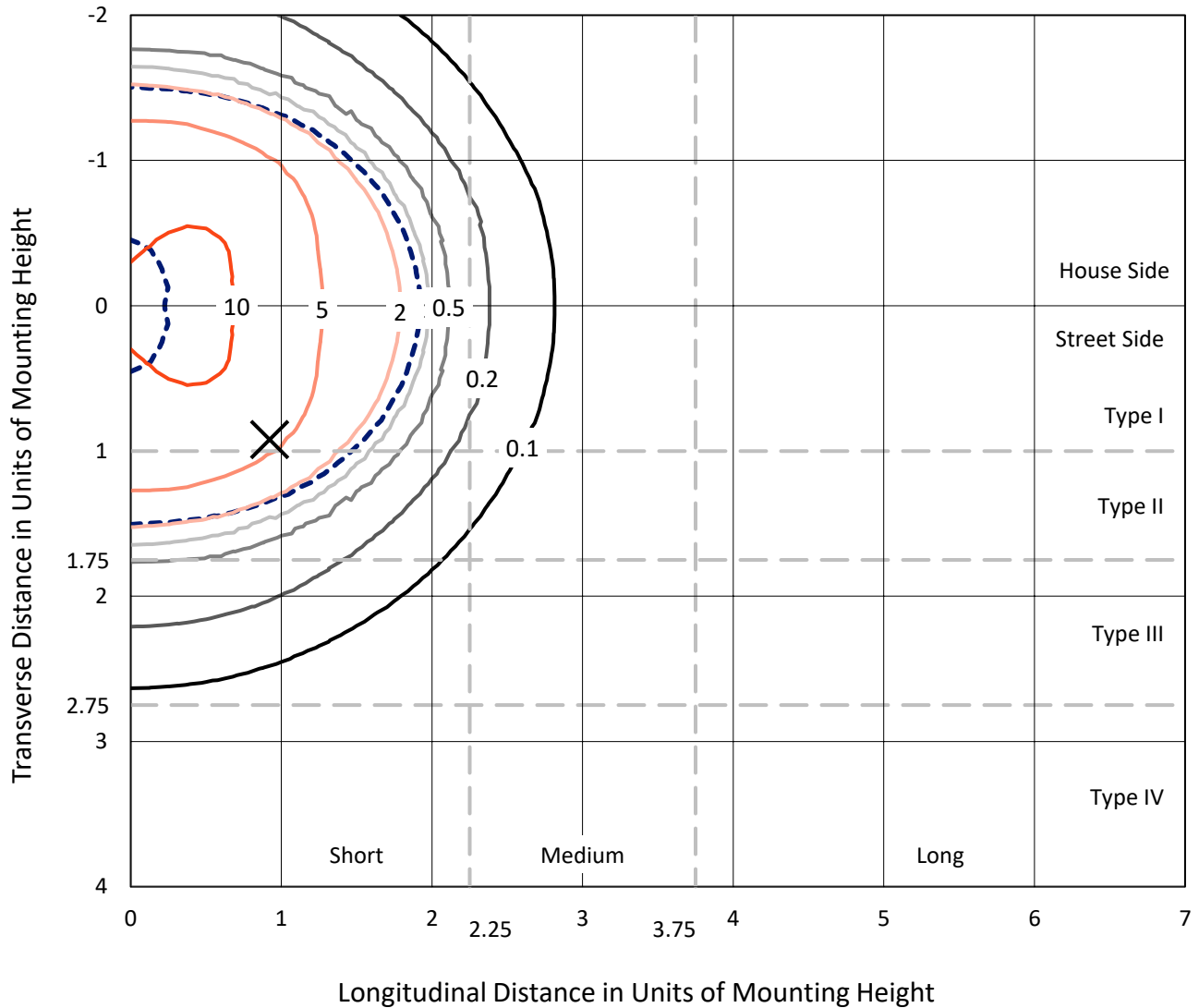
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

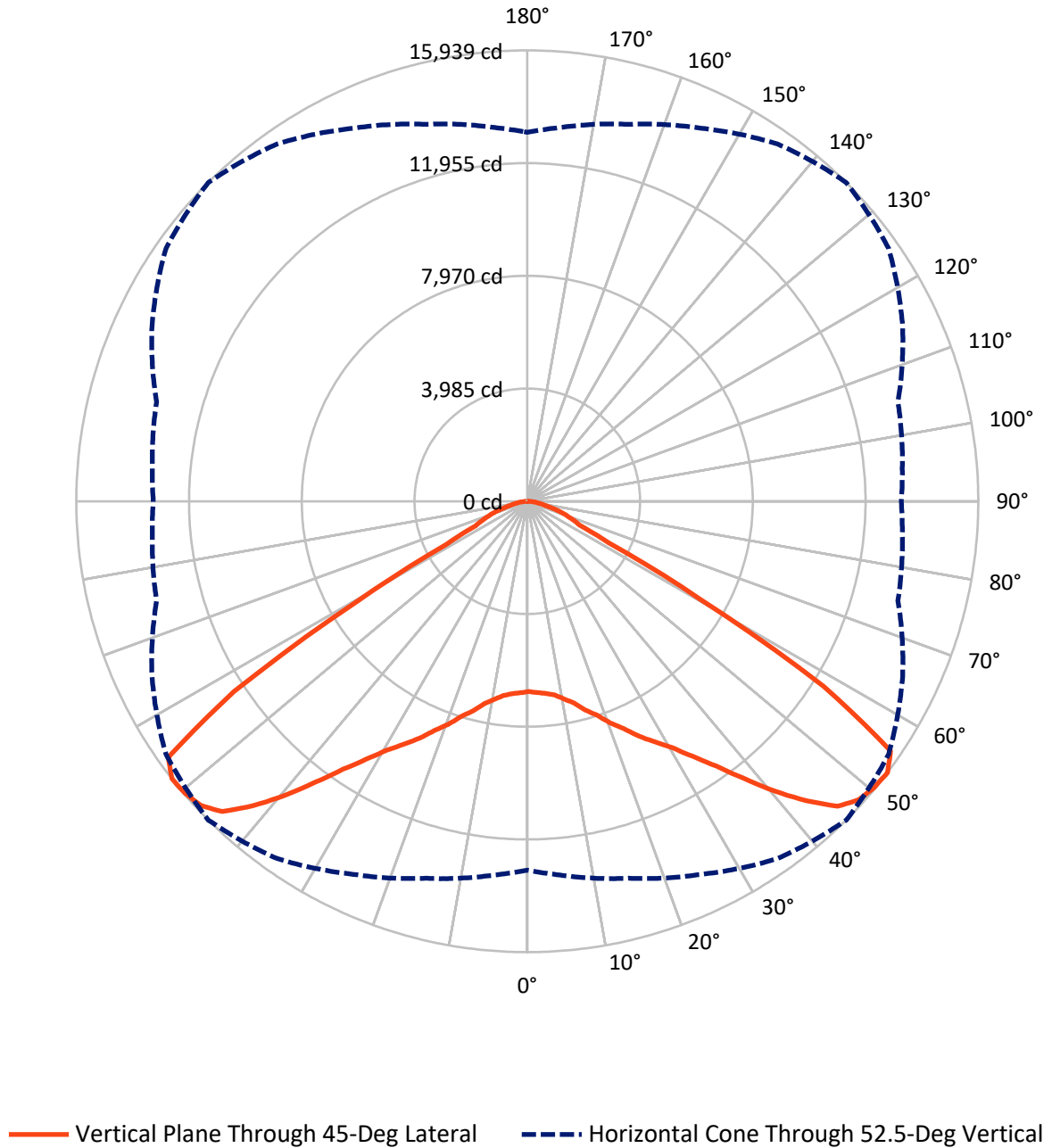
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20119.0	0.0	20119.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20119.0	0.0	20119.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	40238.0	0.0	40238.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	660.8	1.6
10°-20°	2171.5	5.4
20°-30°	4134.2	10.3
30°-40°	7098.7	17.6
40°-50°	10910.9	27.1
50°-60°	11079.8	27.5
60°-70°	3087.8	7.7
70°-80°	910.9	2.3
80°-90°	183.5	0.5
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°	40238.0	100.0
0°-180°	40238.0	100.0

Coefficient of Utilization

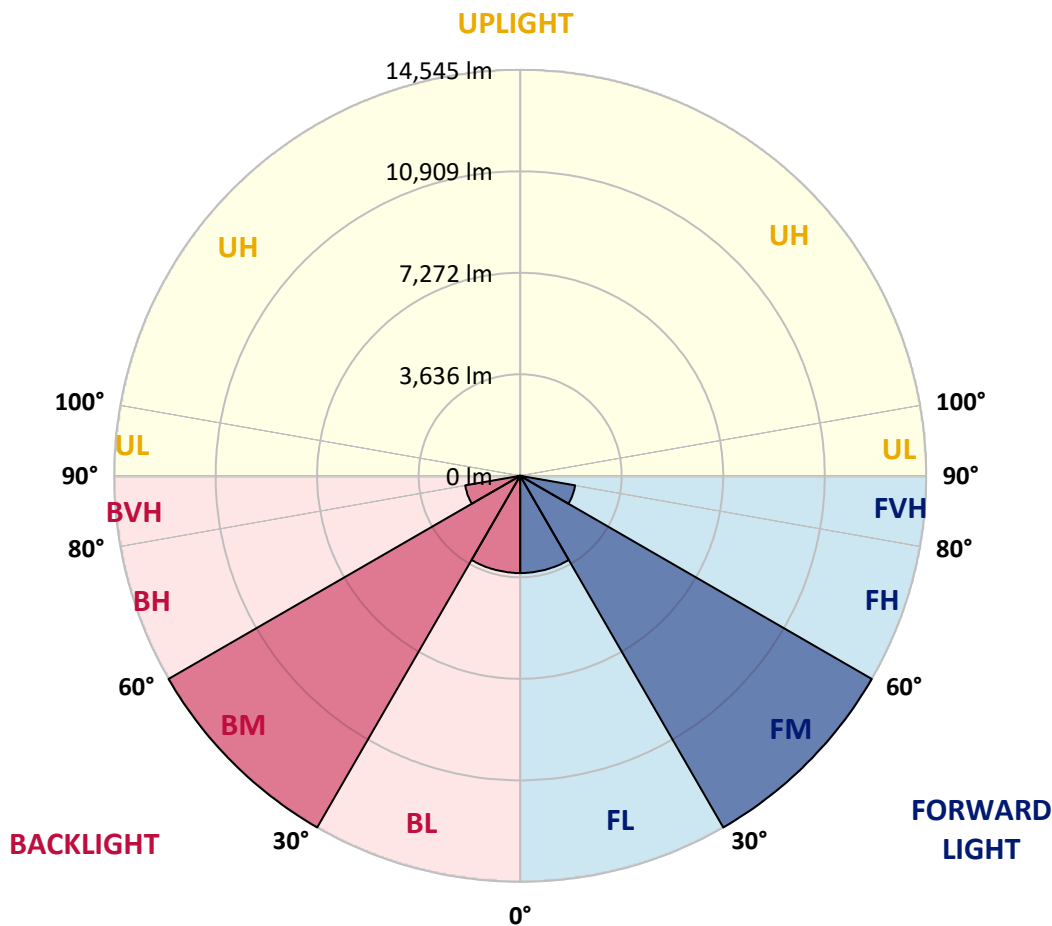


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3483.3	8.7			
FM (30°-60°)	14544.7	36.1			
FH (60°-80°)	1999.3	5.0			G2/5000
FVH (80°-90°)	91.7	0.2			G1/100
BL (0°-30°)	3483.3	8.7	B4/5000		
BM (30°-60°)	14544.7	36.1	B5		
BH (60°-80°)	1999.3	5.0	B3/2500		G2/5000
BVH (80°-90°)	91.7	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-G2
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6726.3	6726.3	6726.3	6726.3	6726.3	6726.3	6726.3	6726.3	6726.3	6726.3	6726.3
2.5°	6741.3	6671.4	6696.4	6711.3	6776.2	6771.3	6756.3	6776.2	6796.2	6801.2	6791.2
5°	6736.3	6686.4	6706.3	6721.3	6786.2	6821.2	6811.2	6896.1	6956.0	6941.0	7015.9
7.5°	6696.4	6726.3	6701.3	6776.2	6831.2	6916.1	7006.0	7085.8	7160.8	7245.6	7260.6
10°	6786.2	6786.2	6831.2	6891.1	7035.9	7100.8	7230.7	7345.5	7490.3	7590.2	7550.2
12.5°	6881.1	6896.1	6896.1	7050.9	7170.7	7315.6	7435.4	7590.2	7794.9	7914.8	7974.7
15°	6976.0	6986.0	7035.9	7245.6	7425.4	7655.1	7765.0	7904.8	8019.6	8244.4	8249.3
17.5°	7060.9	7115.8	7265.6	7500.3	7725.0	7944.7	8119.5	8264.3	8364.2	8454.1	8434.1
20°	7380.5	7420.4	7575.2	7809.9	8144.5	8359.2	8419.1	8444.1	8509.0	8688.8	8633.8
22.5°	7690.1	7705.0	7849.9	8209.4	8444.1	8728.7	8793.6	8778.7	8803.6	8848.6	8928.5
25°	8009.7	8034.6	8234.4	8539.0	8868.5	9208.1	9263.0	9148.2	9113.2	9163.2	9168.2
27.5°	8419.1	8424.1	8678.8	8943.4	9318.0	9637.6	9722.4	9632.6	9467.8	9507.7	9572.6
30°	8938.5	8903.5	9158.2	9537.7	9932.2	10111.9	10256.8	10211.8	10032.0	9997.1	9942.2
32.5°	9537.7	9547.7	9777.4	10191.8	10451.5	10751.1	10905.9	10831.0	10716.2	10656.2	10691.2
35°	10381.6	10426.5	10581.3	10925.9	11345.3	11495.2	11739.8	11580.0	11280.4	11355.3	11420.2
37.5°	11075.7	11205.5	11495.2	11904.6	12154.3	12428.9	12518.8	12304.1	12084.4	11994.5	12209.2
40°	12139.3	12099.4	12419.0	12828.4	13198.0	13472.6	13357.7	13143.0	12598.7	12603.7	12663.6
42.5°	13053.1	13073.1	13317.8	13807.2	14311.5	14481.3	14116.8	13592.4	12988.2	12923.3	13053.1
45°	13822.1	13902.0	14041.9	14696.0	15190.4	15375.1	14701.0	14081.8	13272.9	13003.2	13217.9
47.5°	14096.8	14226.6	14531.2	15130.5	15619.8	15769.6	15230.3	14341.5	13537.5	13098.1	13212.9
50°	14136.7	14091.8	14591.2	15140.4	15569.9	15894.5	15420.1	14531.2	13472.6	13242.9	13207.9
52.5°	13043.2	13262.9	13797.2	14551.2	15420.1	15939.4	15589.9	14636.1	13562.5	13302.8	13217.9
55°	10556.4	10296.7	11270.4	12538.8	14136.7	15579.9	15529.9	14691.0	13617.4	13402.7	13287.8
57.5°	5892.4	5967.3	6516.6	7894.8	9957.1	12354.0	13807.2	14111.8	13592.4	13467.6	13527.5
60°	2726.5	2751.4	2986.1	3630.3	4908.7	7006.0	8918.5	10861.0	11754.8	11934.6	11934.6
62.5°	2032.4	2022.4	2082.3	2197.2	2466.8	3220.8	4299.4	5842.5	7070.9	7929.8	8154.5
65°	1837.6	1832.6	1862.6	1902.5	1922.5	2027.4	2267.1	2741.5	3140.9	3370.6	3330.7
67.5°	1607.9	1602.9	1612.9	1637.9	1672.8	1727.8	1787.7	1887.6	2027.4	2017.4	1992.4
70°	1298.3	1298.3	1313.3	1333.3	1373.2	1438.1	1508.1	1578.0	1697.8	1722.8	1717.8
72.5°	958.8	943.8	973.7	1013.7	1053.6	1133.5	1208.4	1273.4	1358.2	1383.2	1373.2
75°	609.2	619.2	639.2	684.1	754.0	809.0	888.9	943.8	998.7	1018.7	1023.7
77.5°	339.6	349.5	384.5	439.4	509.3	569.3	639.2	684.1	719.1	724.1	729.1
80°	204.7	209.7	244.7	294.6	354.5	419.5	474.4	519.3	549.3	534.3	529.3
82.5°	124.8	129.8	159.8	204.7	254.7	304.6	364.5	404.5	434.4	414.5	394.5
85°	64.9	69.9	94.9	124.8	164.8	189.8	189.8	169.8	164.8	154.8	149.8
87.5°	20.0	20.0	25.0	30.0	25.0	30.0	35.0	39.9	39.9	44.9	39.9
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)