

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: P647177

Luminaire Tested: **GALN-SA9C-835-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647177
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-SA9C-835-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49816.8 lumens
Efficiency: N/A
Efficacy: 103.6 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

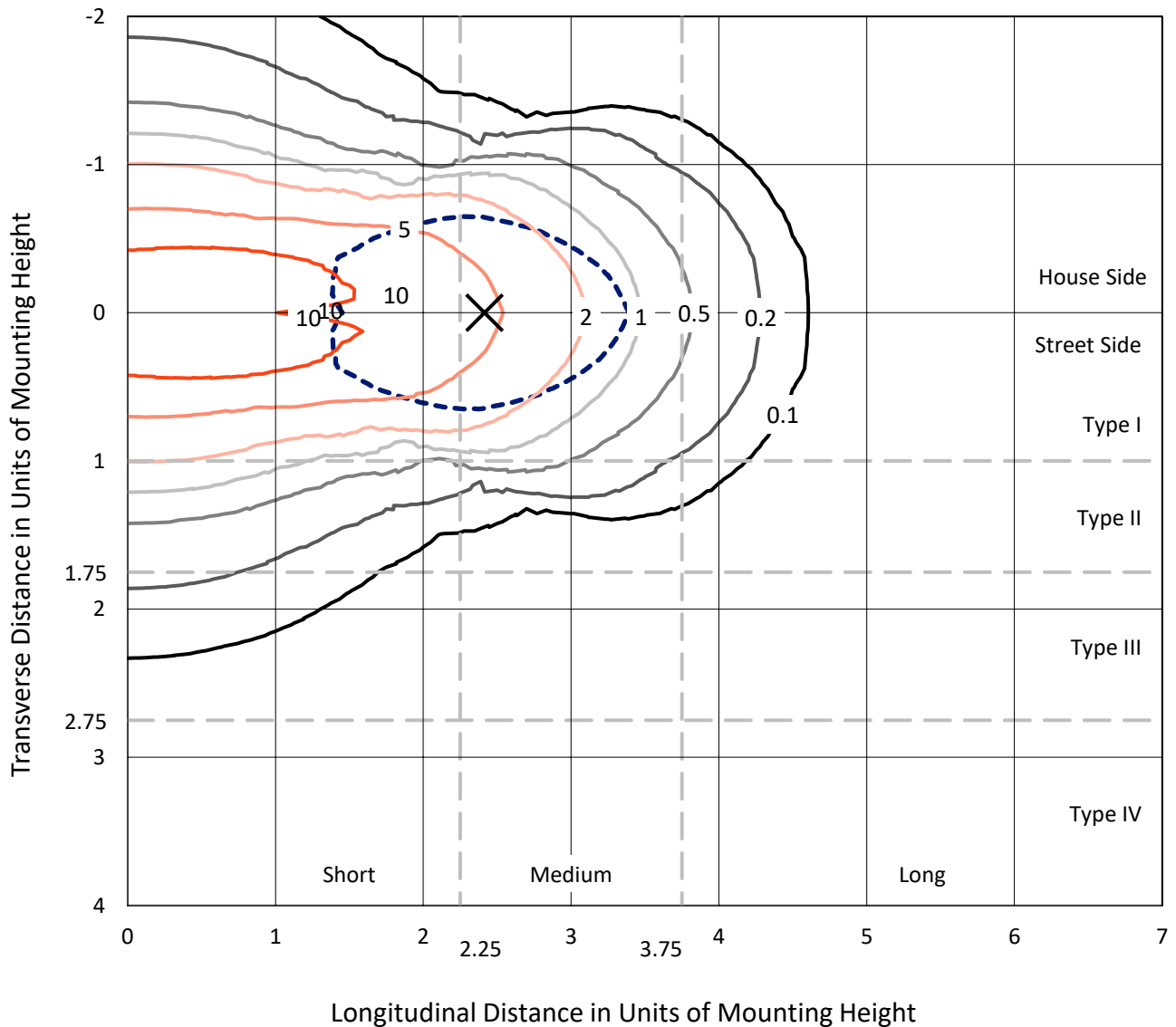
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

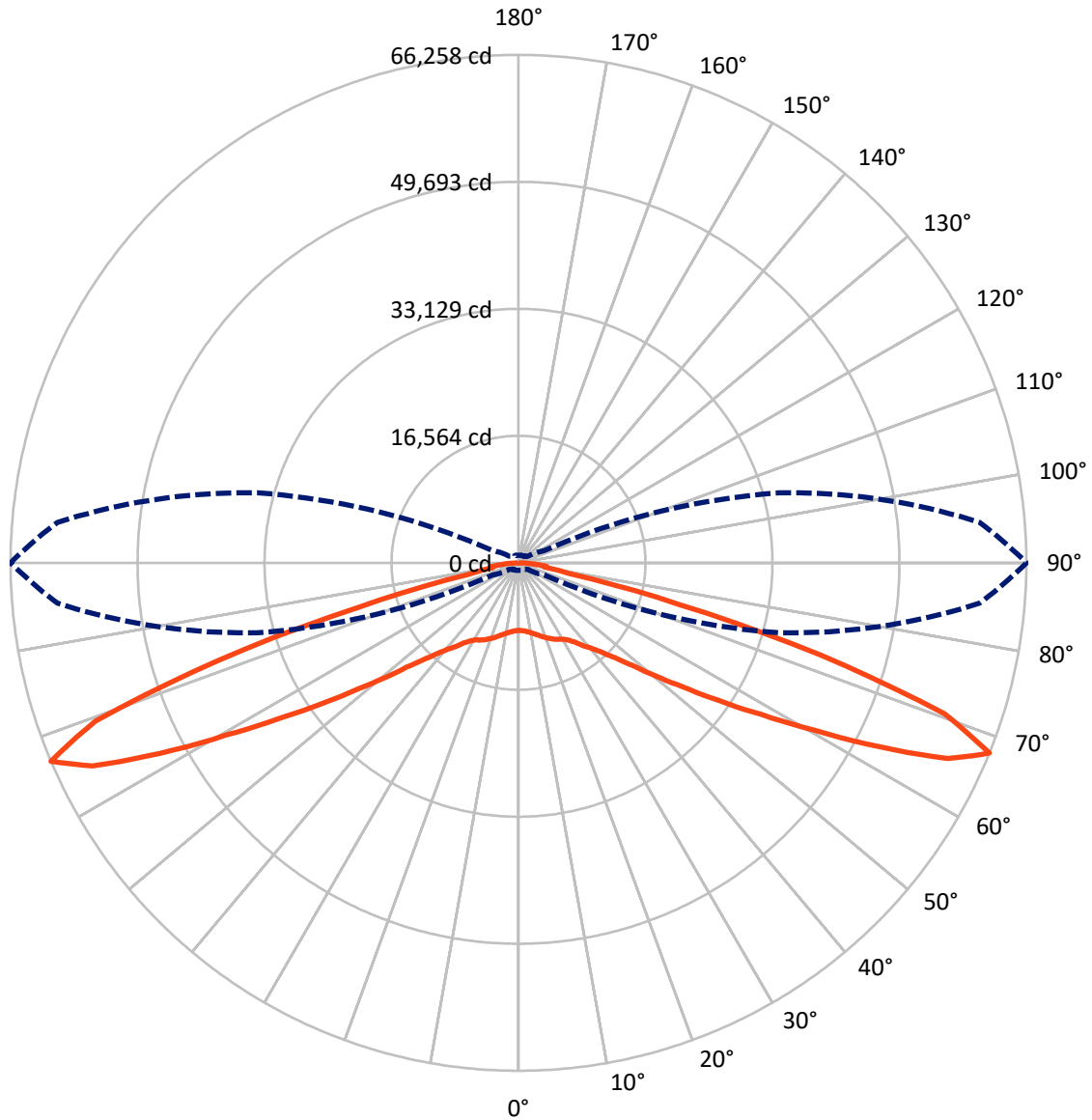
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.8 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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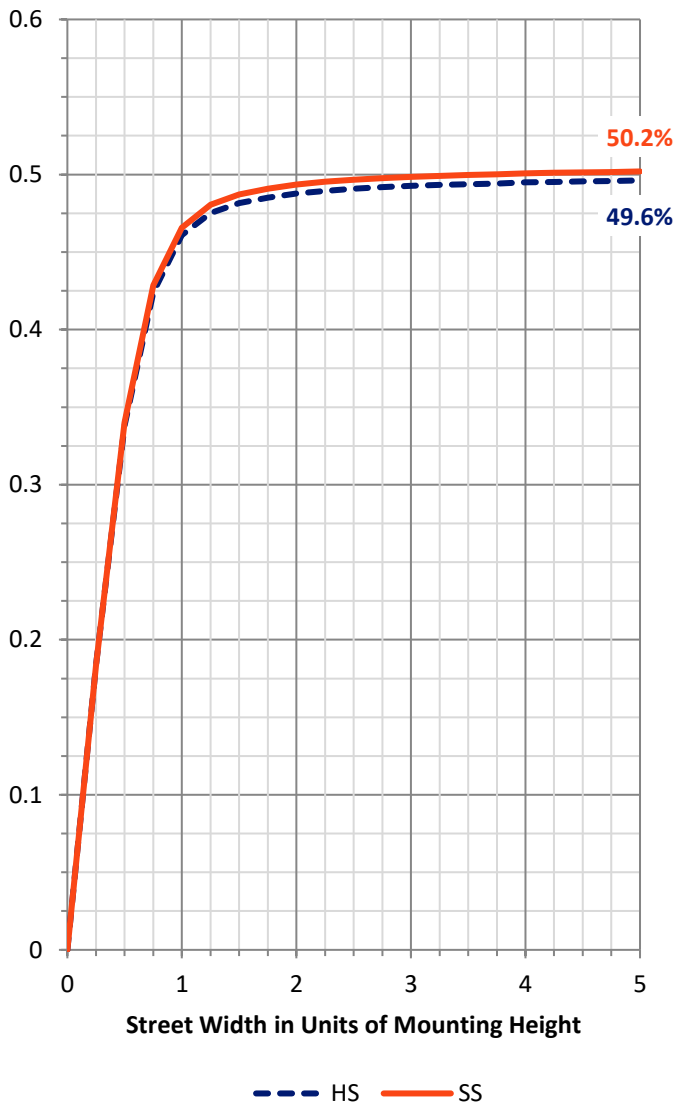
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	24908.4	0.0	24908.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	24908.4	0.0	24908.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	49816.8	0.0	49816.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	879.3	1.8
10°-20°	2813.2	5.6
20°-30°	4708.5	9.5
30°-40°	6378.8	12.8
40°-50°	8079.8	16.2
50°-60°	10093.7	20.3
60°-70°	11864.8	23.8
70°-80°	4538.8	9.1
80°-90°	459.8	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°	49816.8	100.0
0°-180°	49816.8	100.0

Coefficient of Utilization

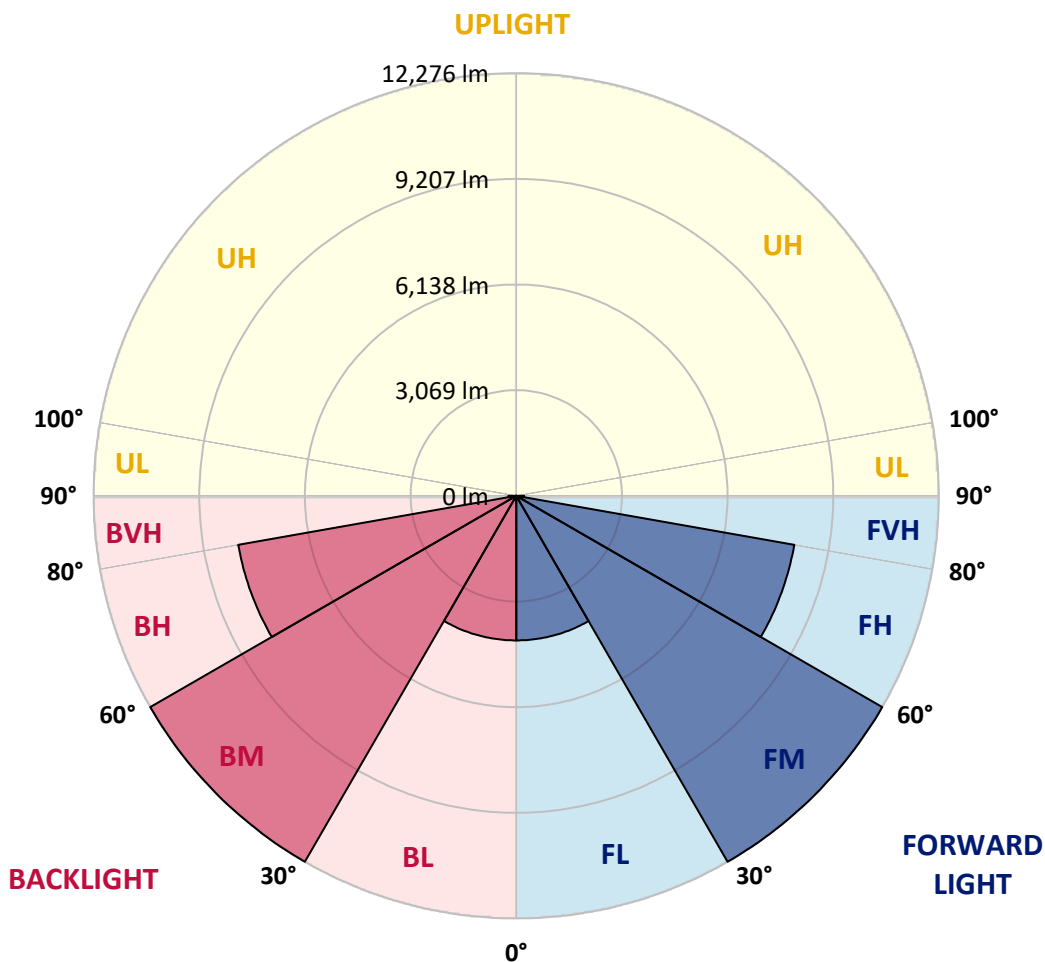


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4200.5	8.4			
FM	(30°-60°)	12276.2	24.6			
FH	(60°-80°)	8201.8	16.5			G4/12000
FVH	(80°-90°)	229.9	0.5			G3/500
BL	(0°-30°)	4200.5	8.4	B4/5000		
BM	(30°-60°)	12276.2	24.6	B5		
BH	(60°-80°)	8201.8	16.5	B5		G5
BVH	(80°-90°)	229.9	0.5			G3/500
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°	8819.2	8819.2	8819.2	8819.2	8819.2	8819.2	8819.2	8819.2	8819.2	8819.2	8819.2
2.5°	8932.2	8926.7	8929.5	8926.7	8935.0	8929.5	8896.4	8868.8	8846.7	8849.5	8841.2
5°	9122.6	9125.3	9128.1	9114.3	9133.6	9122.6	9070.2	9026.0	8981.9	8965.4	8959.8
7.5°	9279.8	9293.6	9301.9	9315.7	9348.8	9348.8	9321.2	9257.7	9161.2	9106.1	9103.2
10°	9437.0	9448.1	9472.9	9517.1	9572.2	9624.6	9613.6	9528.1	9403.9	9310.2	9288.1
12.5°	9492.2	9506.0	9588.8	9715.6	9839.8	9941.8	9941.8	9872.9	9712.9	9569.4	9528.1
15°	9299.1	9324.0	9472.9	9743.3	10068.8	10292.2	10341.9	10245.3	10074.2	9853.6	9803.9
17.5°	8915.7	8976.4	9194.3	9594.3	10135.0	10598.4	10741.8	10694.9	10474.3	10192.9	10135.0
20°	8504.6	8570.9	8802.6	9332.2	10079.8	10777.7	11194.2	11205.3	10932.2	10523.9	10438.4
22.5°	8052.2	8101.9	8399.8	9020.5	9914.3	10819.1	11583.2	11773.6	11403.9	10855.0	10733.6
25°	7544.7	7599.9	7911.6	8581.9	9602.6	10772.2	11939.0	12358.3	11897.7	11208.0	11053.5
27.5°	7059.1	7081.2	7415.0	8096.4	9191.6	10650.8	12201.1	12896.2	12443.9	11500.5	11304.6
30°	6592.9	6645.4	6940.5	7613.7	8719.8	10413.6	12427.3	13508.7	13031.5	11806.6	11555.6
32.5°	6099.2	6162.6	6482.6	7164.0	8248.1	10057.7	12565.3	14179.0	13850.7	12303.2	12035.6
35°	5624.7	5666.1	5988.9	6650.9	7787.4	9643.9	12590.1	14934.9	14907.3	13056.3	12700.4
37.5°	5139.2	5199.9	5525.4	6159.9	7299.1	9205.3	12465.9	15737.6	16181.7	14101.8	13718.3
40°	4673.0	4725.4	5045.4	5685.4	6744.7	8670.2	12170.8	16471.3	17668.6	15177.6	14634.2
42.5°	4165.4	4179.2	4529.6	5180.6	6201.3	8049.5	11745.9	17125.1	19326.5	16620.3	15944.5
45°	3588.9	3624.7	3950.2	4590.3	5577.8	7354.3	11169.4	17665.8	21428.5	18620.3	17698.9
47.5°	3012.4	3042.7	3340.6	3972.3	4896.4	6557.1	10281.2	18140.3	23585.7	21161.0	19952.7
50°	2449.6	2466.1	2708.9	3268.9	4129.5	5718.5	9180.5	18292.1	26024.3	24758.1	23216.0
52.5°	1936.5	1961.3	2146.1	2584.8	3310.3	4728.1	7991.5	17916.8	28871.1	29022.8	26849.1
55°	1569.6	1577.9	1715.8	2038.5	2587.5	3691.0	6557.1	16871.4	31933.1	34487.5	31715.2
57.5°	1351.7	1357.2	1434.5	1613.8	1991.7	2783.4	5086.8	14893.5	34683.4	40890.2	37326.1
60°	1227.6	1230.3	1274.5	1379.3	1577.9	2135.2	3644.1	12101.8	37397.8	48015.5	44299.8
62.5°	1150.3	1150.3	1180.7	1238.6	1335.2	1638.6	2640.0	8730.8	39257.1	55245.7	52895.4
65°	1075.8	1075.8	1097.9	1139.3	1191.7	1340.7	1950.3	5693.7	39210.2	60511.8	61540.7
67.5°	990.3	990.3	1006.9	1048.3	1078.6	1153.0	1506.2	3729.6	35221.3	60396.0	66257.9
70°	888.2	888.2	910.3	946.2	971.0	1017.9	1188.9	2551.6	25875.3	51568.6	58925.7
72.5°	786.2	789.0	802.7	838.6	857.9	885.5	987.6	1787.5	15872.7	35113.7	41201.9
75°	673.1	678.6	692.4	728.3	744.8	755.8	833.1	1274.5	8030.2	18932.0	21555.4
77.5°	543.4	554.4	562.7	601.3	612.4	629.0	686.8	921.4	3525.5	6802.6	6863.3
80°	397.2	411.0	435.8	471.7	480.0	491.0	524.1	653.8	1597.2	3106.2	3373.7
82.5°	292.4	311.7	281.4	328.2	328.2	314.5	369.7	438.6	733.7	3075.8	3679.9
85°	160.0	162.8	146.2	168.3	179.3	176.6	195.8	215.2	355.9	2052.4	2115.8
87.5°	38.6	41.3	44.2	52.4	63.4	63.4	69.0	60.7	115.9	664.8	380.7
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)