

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: P647672

Luminaire Tested: **GALN-SA9D-835-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647672
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-SA9D-835-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 54815.5 lumens
Efficiency: N/A
Efficacy: 99.3 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

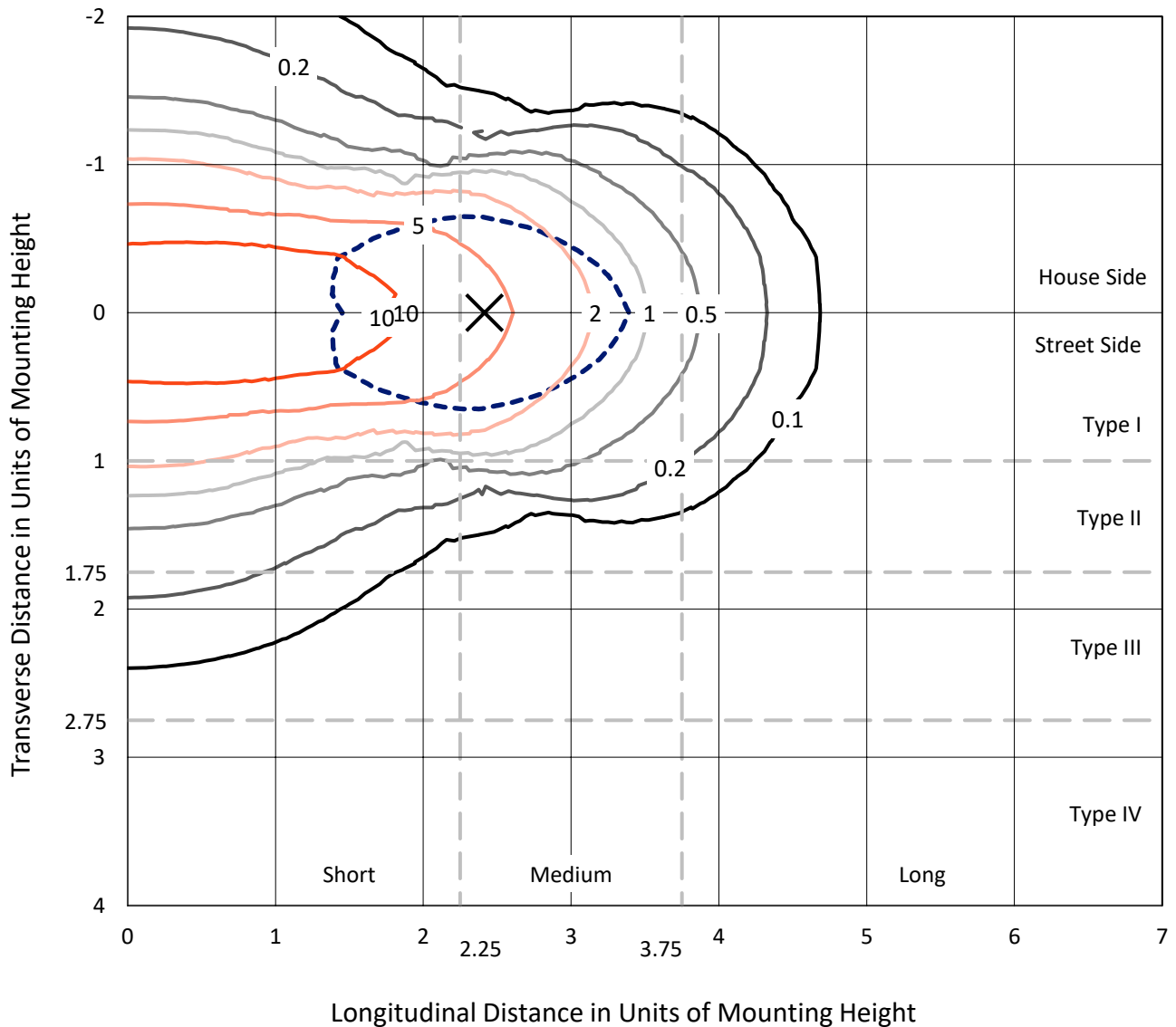
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

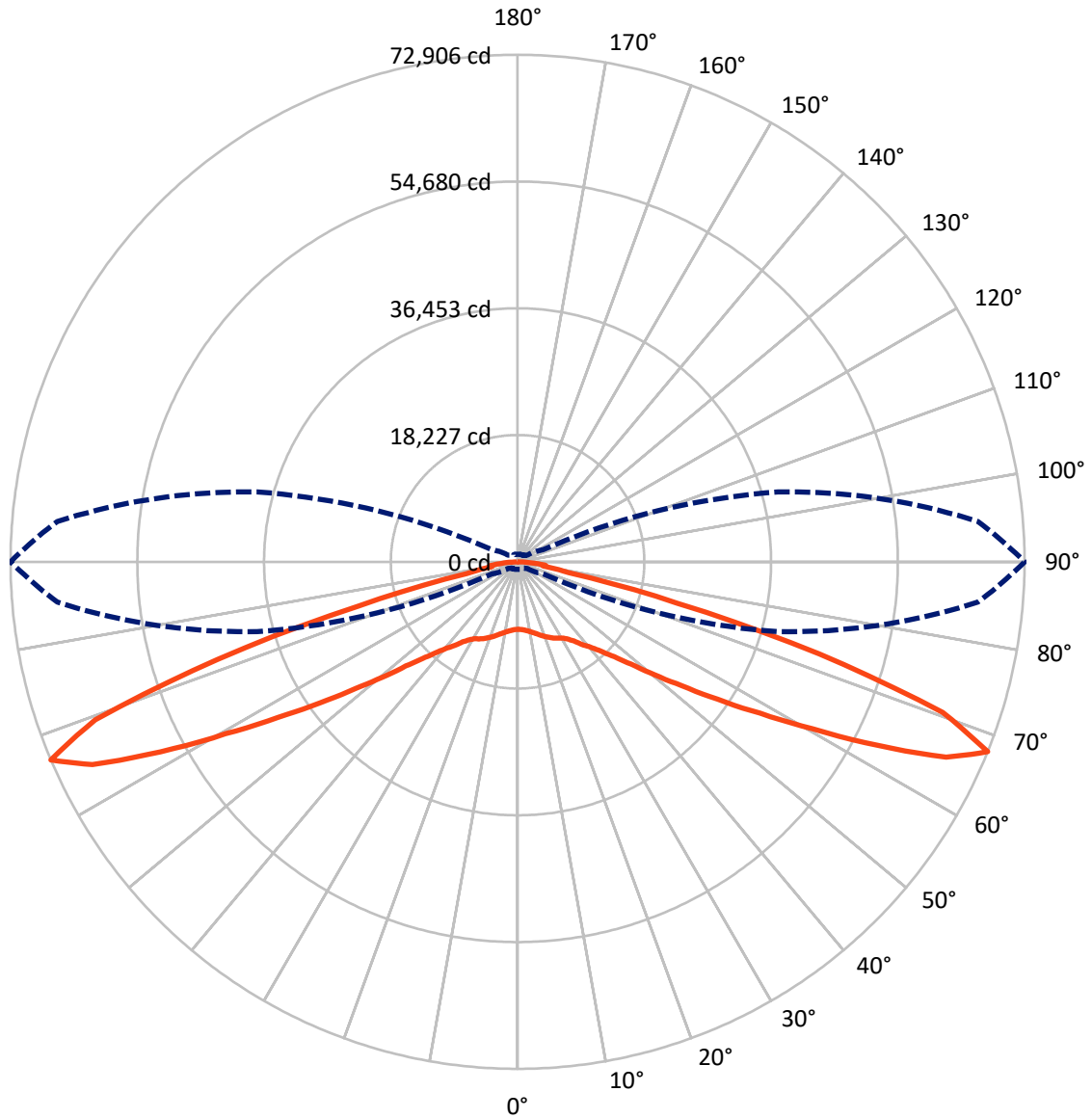
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.3 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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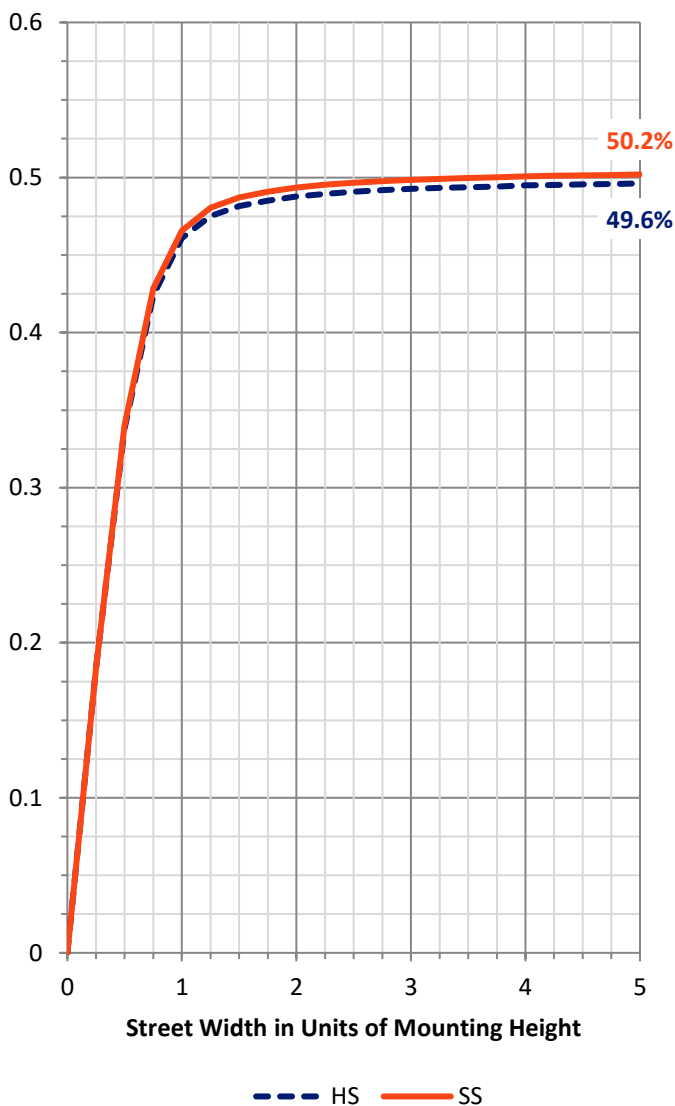
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	27407.7	0.0	27407.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	27407.7	0.0	27407.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	54815.5	0.0	54815.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	967.5	1.8
10°-20°	3095.5	5.6
20°-30°	5181.0	9.5
30°-40°	7018.9	12.8
40°-50°	8890.6	16.2
50°-60°	11106.6	20.3
60°-70°	13055.3	23.8
70°-80°	4994.2	9.1
80°-90°	506.0	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°	54815.5	100.0
0°-180°	54815.5	100.0

Coefficient of Utilization

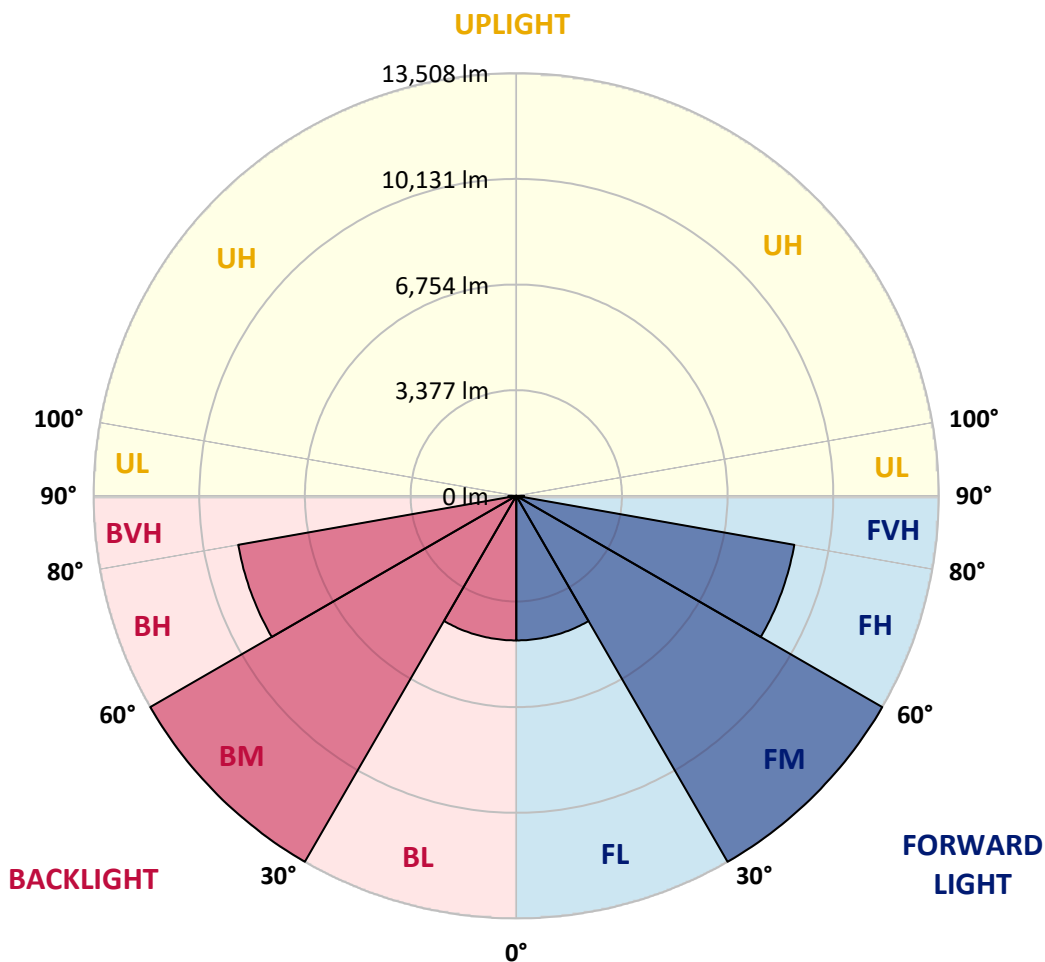


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4622.0	8.4			
FM	(30°-60°)	13508.0	24.6			
FH	(60°-80°)	9024.8	16.5			G4/12000
FVH	(80°-90°)	253.0	0.5			G3/500
BL	(0°-30°)	4622.0	8.4	B4/5000		
BM	(30°-60°)	13508.0	24.6	B5		
BH	(60°-80°)	9024.8	16.5	B5		G5
BVH	(80°-90°)	253.0	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°	9704.0	9704.0	9704.0	9704.0	9704.0	9704.0	9704.0	9704.0	9704.0	9704.0	9704.0
2.5°	9828.5	9822.4	9825.5	9822.4	9831.5	9825.5	9789.1	9758.7	9734.4	9737.5	9728.3
5°	10037.9	10041.0	10044.0	10028.8	10050.0	10037.9	9980.3	9931.7	9883.1	9864.9	9858.8
7.5°	10210.9	10226.1	10235.2	10250.4	10286.8	10286.8	10256.5	10186.7	10080.4	10019.7	10016.7
10°	10384.0	10396.1	10423.5	10472.0	10532.7	10590.4	10578.3	10484.1	10347.6	10244.3	10220.0
12.5°	10444.7	10459.9	10550.9	10690.5	10827.2	10939.4	10939.4	10863.6	10687.5	10529.6	10484.1
15°	10232.2	10259.5	10423.5	10720.9	11079.1	11324.9	11379.6	11273.3	11085.2	10842.3	10787.7
17.5°	9810.3	9877.1	10116.8	10557.0	11151.9	11661.8	11819.7	11768.1	11525.3	11215.7	11151.9
20°	9358.0	9430.8	9685.9	10268.7	11091.2	11859.2	12317.5	12329.7	12029.2	11579.9	11485.8
22.5°	8860.2	8914.8	9242.7	9925.6	10909.1	11904.7	12745.4	12954.9	12548.2	11944.1	11810.6
25°	8301.7	8362.4	8705.4	9443.0	10566.1	11853.1	13137.0	13598.4	13091.5	12332.6	12162.7
27.5°	7767.5	7791.8	8159.0	8908.8	10113.9	11719.6	13425.4	14190.3	13692.5	12654.5	12438.9
30°	7254.5	7312.2	7637.0	8377.6	9594.8	11458.5	13674.3	14864.2	14339.1	12991.4	12715.1
32.5°	6711.2	6781.0	7133.1	7882.9	9075.8	11066.9	13826.1	15601.7	15240.5	13537.7	13243.3
35°	6189.1	6234.6	6589.8	7318.2	8568.8	10611.6	13853.4	16433.4	16403.1	14366.3	13974.8
37.5°	5654.9	5721.6	6079.8	6778.0	8031.5	10129.0	13716.8	17316.7	17805.4	15516.8	15094.8
40°	5141.9	5199.6	5551.7	6255.9	7421.4	9540.2	13392.0	18124.1	19441.5	16700.5	16102.6
42.5°	4583.4	4598.6	4984.0	5700.4	6823.5	8857.2	12924.6	18843.5	21265.7	18288.1	17544.4
45°	3949.0	3988.4	4346.7	5050.8	6137.5	8092.3	12290.2	19438.4	23578.7	20488.7	19474.9
47.5°	3314.6	3348.0	3675.8	4370.9	5387.7	7215.0	11312.8	19960.5	25952.3	23284.2	21954.8
50°	2695.4	2713.6	2980.7	3596.9	4543.9	6292.3	10101.7	20127.5	28635.6	27242.4	25545.6
52.5°	2130.9	2158.1	2361.5	2844.2	3642.4	5202.6	8793.4	19714.7	31768.1	31935.0	29543.1
55°	1727.1	1736.2	1888.0	2243.1	2847.1	4061.3	7215.0	18564.2	35137.4	37948.1	34897.5
57.5°	1487.3	1493.4	1578.4	1775.7	2191.5	3062.7	5597.2	16387.9	38163.6	44993.1	41071.5
60°	1350.8	1353.8	1402.4	1517.7	1736.2	2349.4	4009.7	13316.1	41150.4	52833.5	48744.9
62.5°	1265.7	1265.7	1299.2	1362.9	1469.1	1803.0	2904.9	9606.9	43196.2	60789.1	58203.1
65°	1183.8	1183.8	1208.1	1253.6	1311.3	1475.2	2146.0	6265.0	43144.6	66583.7	67715.9
67.5°	1089.7	1089.7	1107.9	1153.4	1186.8	1268.8	1657.3	4103.8	38755.4	66456.2	72906.3
70°	977.4	977.4	1001.7	1041.2	1068.5	1120.1	1308.2	2807.7	28471.7	56743.0	64838.4
72.5°	865.1	868.1	883.3	922.8	944.0	974.4	1086.6	1966.9	17465.4	38637.1	45336.2
75°	740.6	746.7	761.9	801.3	819.6	831.7	916.7	1402.4	8835.9	20831.7	23718.3
77.5°	598.0	610.1	619.2	661.7	673.8	692.1	755.8	1013.8	3879.2	7485.2	7552.0
80°	437.1	452.3	479.6	519.1	528.1	540.3	576.7	719.3	1757.4	3417.8	3712.3
82.5°	321.7	343.0	309.6	361.2	361.2	346.0	406.8	482.6	807.4	3384.4	4049.2
85°	176.0	179.1	160.9	185.2	197.3	194.3	215.5	236.8	391.6	2258.3	2328.1
87.5°	42.5	45.5	48.5	57.7	69.8	69.8	75.9	66.8	127.5	731.6	418.9
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)