

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: P459080

Luminaire Tested: **GALN-SA5D-735-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459080
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-SA5D-735-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 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: 36025 lumens
Efficiency: N/A
Efficacy: 116.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

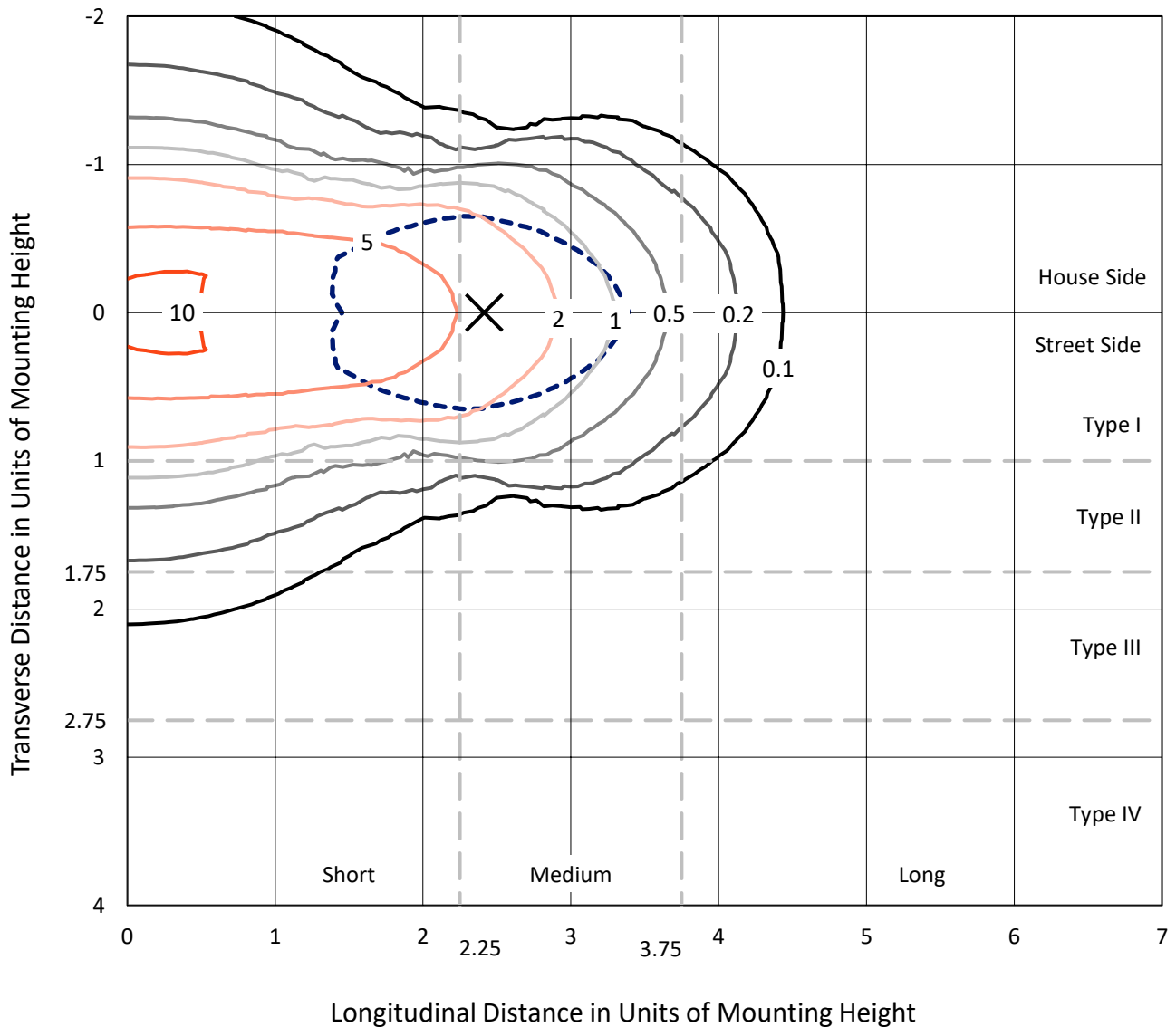
Input Watts (W): 309
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

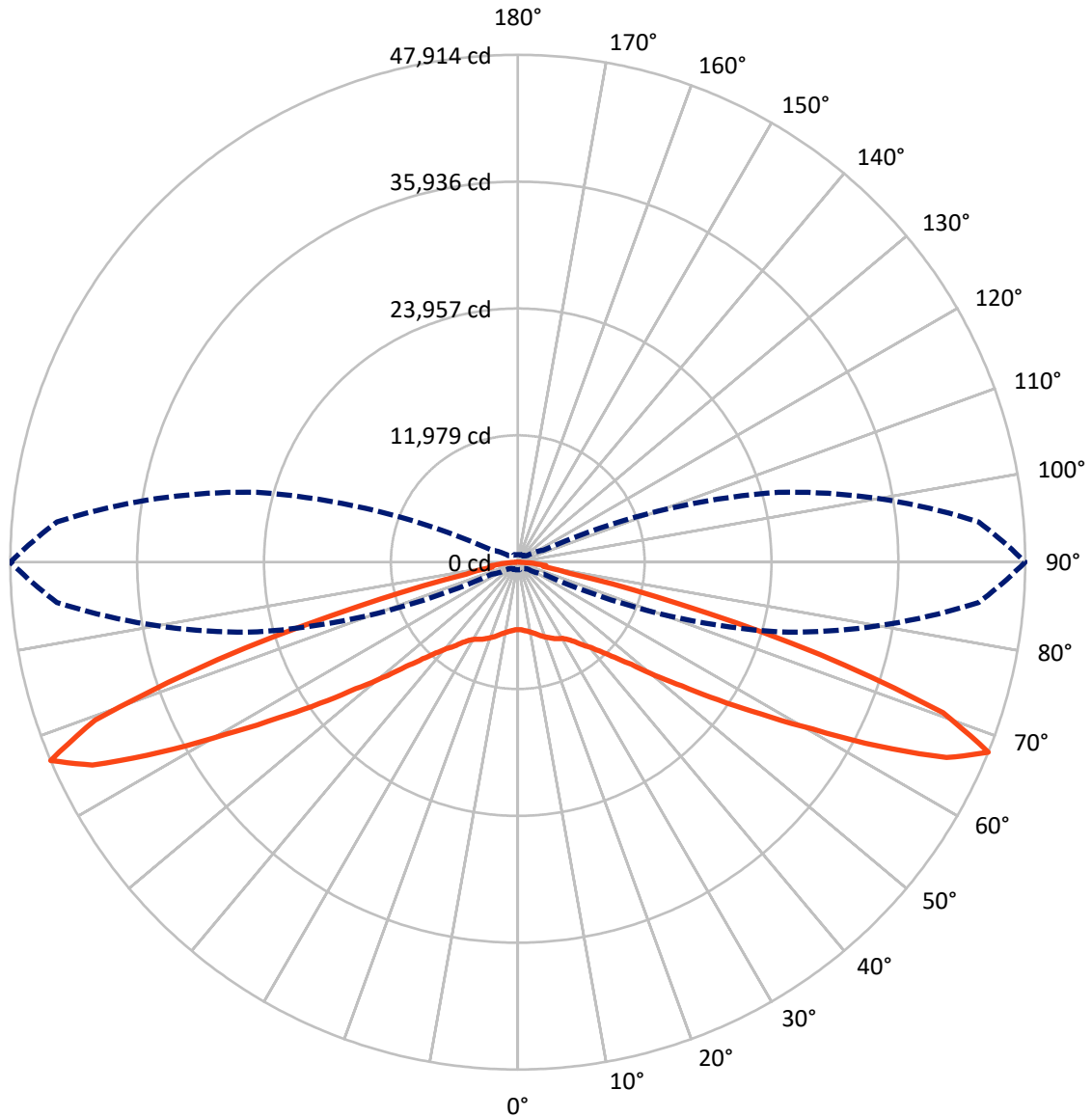
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 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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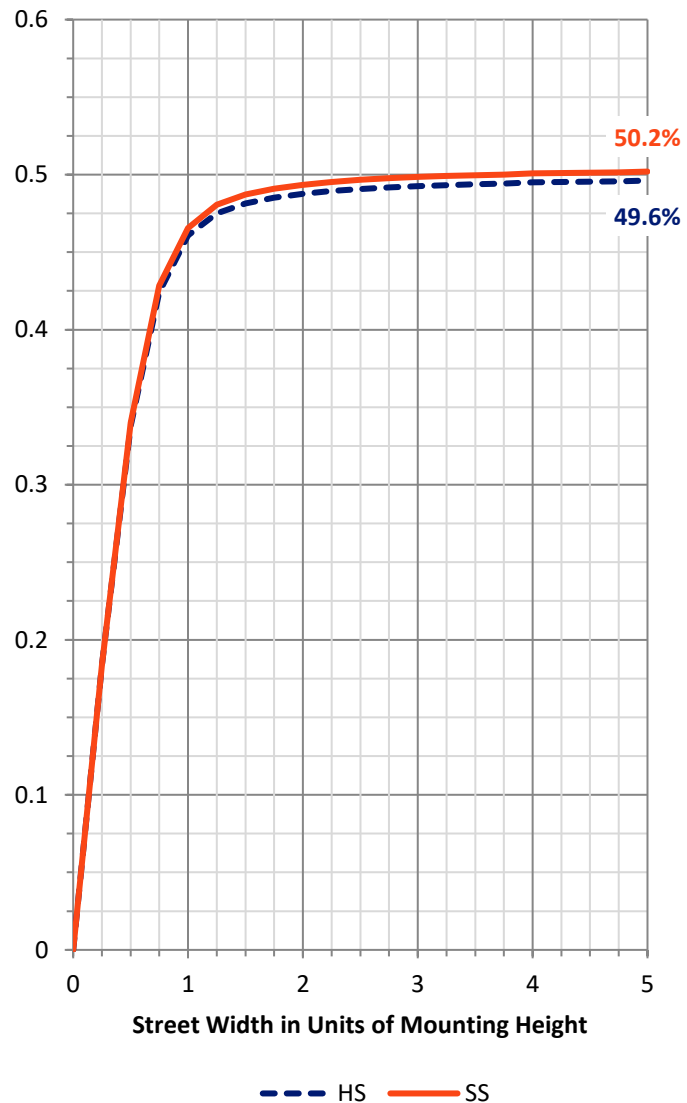
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18012.5	0.0	18012.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18012.5	0.0	18012.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	36025.0	0.0	36025.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	635.8	1.8
10°-20°	2034.3	5.6
20°-30°	3405.0	9.5
30°-40°	4612.8	12.8
40°-50°	5842.9	16.2
50°-60°	7299.3	20.3
60°-70°	8580.0	23.8
70°-80°	3282.2	9.1
80°-90°	332.5	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°	36025.0	100.0
0°-180°	36025.0	100.0



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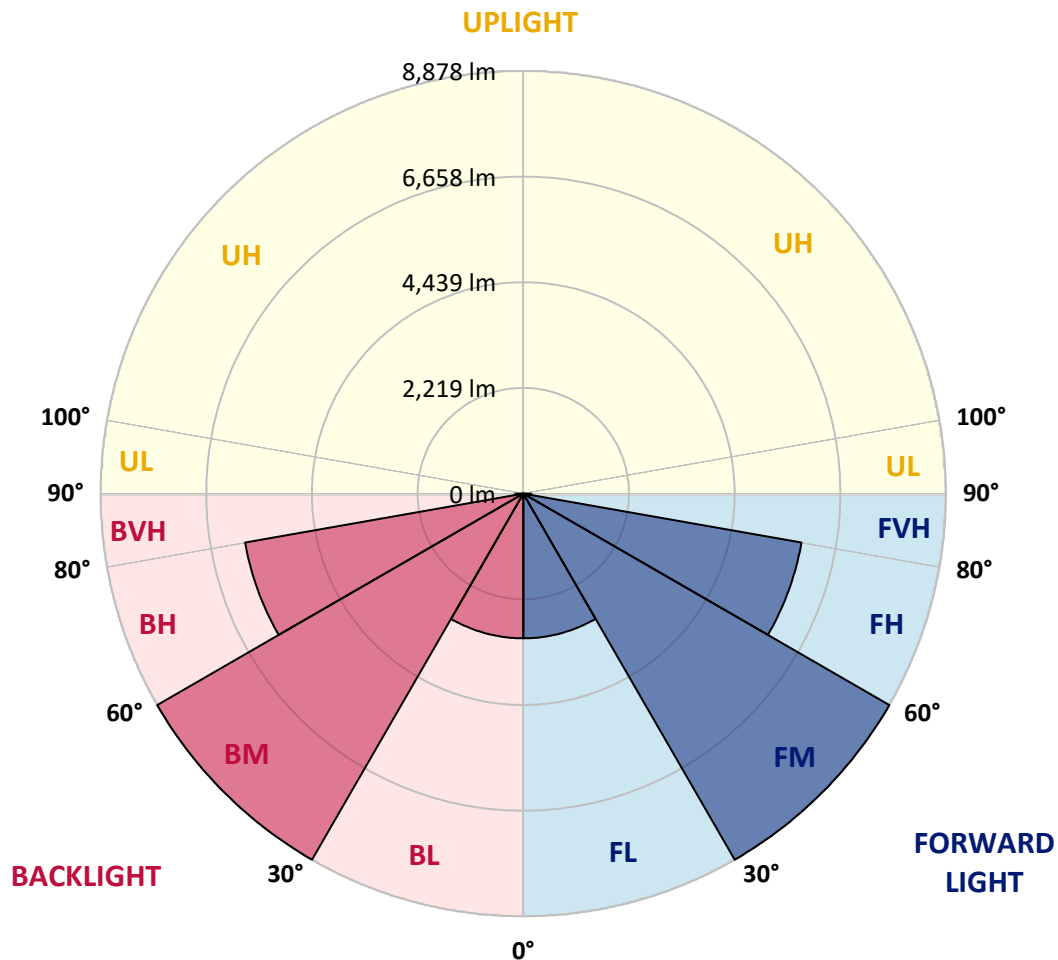
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3037.6	8.4			
FM (30°-60°)	8877.5	24.6			
FH (60°-80°)	5931.1	16.5			G3/7500
FVH (80°-90°)	166.3	0.5			G2/225
BL (0°-30°)	3037.6	8.4	B4/5000		
BM (30°-60°)	8877.5	24.6	B5		
BH (60°-80°)	5931.1	16.5	B5		G5
BVH (80°-90°)	166.3	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°	6377.5	6377.5	6377.5	6377.5	6377.5	6377.5	6377.5	6377.5	6377.5	6377.5	6377.5
2.5°	6459.3	6455.3	6457.3	6455.3	6461.3	6457.3	6433.4	6413.5	6397.5	6399.5	6393.5
5°	6597.0	6599.0	6601.0	6591.0	6605.0	6597.0	6559.1	6527.2	6495.2	6483.3	6479.3
7.5°	6710.7	6720.7	6726.6	6736.6	6760.6	6760.6	6740.6	6694.7	6624.9	6585.0	6583.0
10°	6824.4	6832.4	6850.3	6882.2	6922.1	6960.0	6952.1	6890.2	6800.5	6732.6	6716.7
12.5°	6864.3	6874.3	6934.1	7025.9	7115.6	7189.5	7189.5	7139.6	7023.9	6920.1	6890.2
15°	6724.7	6742.6	6850.3	7045.8	7281.2	7442.8	7478.7	7408.9	7285.2	7125.6	7089.7
17.5°	6447.4	6491.3	6648.8	6938.1	7329.1	7664.2	7768.0	7734.0	7574.5	7371.0	7329.1
20°	6150.1	6198.0	6365.6	6748.6	7289.2	7793.9	8095.1	8103.1	7905.6	7610.4	7548.5
22.5°	5823.0	5858.9	6074.3	6523.2	7169.5	7823.8	8376.4	8514.0	8246.7	7849.7	7762.0
25°	5455.9	5495.8	5721.2	6206.0	6944.1	7789.9	8633.7	8936.9	8603.8	8105.1	7993.4
27.5°	5104.8	5120.8	5362.2	5854.9	6646.9	7702.1	8823.2	9325.9	8998.8	8316.5	8174.9
30°	4767.7	4805.6	5019.1	5505.8	6305.7	7530.6	8986.8	9768.8	9423.7	8538.0	8356.4
32.5°	4410.6	4456.5	4687.9	5180.6	5964.6	7273.2	9086.6	10253.5	10016.2	8897.0	8703.5
35°	4067.5	4097.4	4330.8	4809.6	5631.5	6974.0	9104.5	10800.1	10780.2	9441.6	9184.3
37.5°	3716.4	3760.3	3995.7	4454.5	5278.4	6656.8	9014.7	11380.6	11701.8	10197.7	9920.4
40°	3379.3	3417.2	3648.6	4111.4	4877.4	6269.8	8801.3	11911.3	12777.0	10975.7	10582.7
42.5°	3012.2	3022.2	3275.5	3746.3	4484.4	5821.0	8494.1	12384.1	13975.9	12019.0	11530.3
45°	2595.3	2621.2	2856.6	3319.4	4033.6	5318.3	8077.2	12775.0	15496.0	13465.3	12799.0
47.5°	2178.4	2200.3	2415.8	2872.6	3540.9	4741.8	7434.8	13118.2	17056.0	15302.5	14428.8
50°	1771.4	1783.4	1958.9	2363.9	2986.3	4135.3	6638.9	13227.9	18819.4	17903.8	16788.7
52.5°	1400.4	1418.3	1552.0	1869.2	2393.8	3419.2	5779.1	12956.6	20878.1	20987.9	19415.9
55°	1135.1	1141.1	1240.8	1474.2	1871.2	2669.1	4741.8	12200.5	23092.4	24939.7	22934.8
57.5°	977.5	981.5	1037.3	1167.0	1440.3	2012.8	3678.5	10770.2	25081.3	29569.7	26992.4
60°	887.7	889.7	921.6	997.4	1141.1	1544.0	2635.2	8751.4	27044.2	34722.4	32035.4
62.5°	831.9	831.9	853.8	895.7	965.5	1184.9	1909.1	6313.7	28388.8	39950.9	38251.3
65°	778.0	778.0	794.0	823.9	861.8	969.5	1410.4	4117.4	28354.8	43759.1	44503.2
67.5°	716.2	716.2	728.1	758.0	780.0	833.8	1089.2	2697.0	25470.3	43675.3	47914.4
70°	642.3	642.3	658.3	684.2	702.2	736.1	859.8	1845.2	18711.7	37291.8	42612.1
72.5°	568.5	570.5	580.5	606.4	620.4	640.3	714.2	1292.7	11478.4	25392.5	29795.1
75°	486.7	490.7	500.7	526.6	538.6	546.6	602.4	921.6	5807.0	13690.7	15587.8
77.5°	393.0	401.0	407.0	434.9	442.9	454.8	496.7	666.3	2549.4	4919.3	4963.2
80°	287.3	297.2	315.2	341.1	347.1	355.1	379.0	472.8	1155.0	2246.2	2439.7
82.5°	211.5	225.4	203.5	237.4	237.4	227.4	267.3	317.2	530.6	2224.3	2661.1
85°	115.7	117.7	105.7	121.7	129.7	127.7	141.6	155.6	257.3	1484.2	1530.1
87.5°	27.9	29.9	31.9	37.9	45.9	45.9	49.9	43.9	83.8	480.8	275.3
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)