

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: P651412

Luminaire Tested: **GALN-SA5D-840-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651412
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-840-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32523.2 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

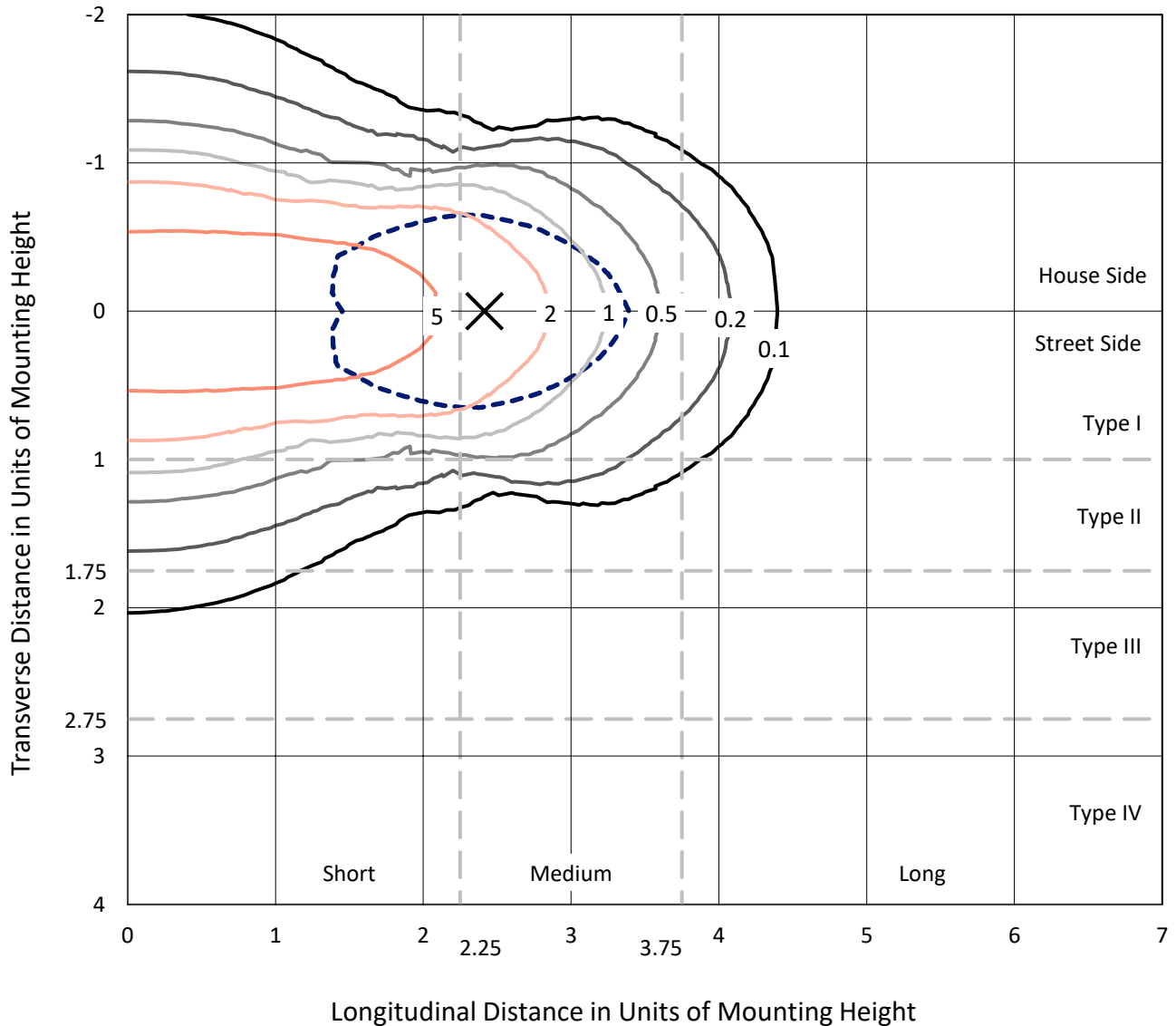
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

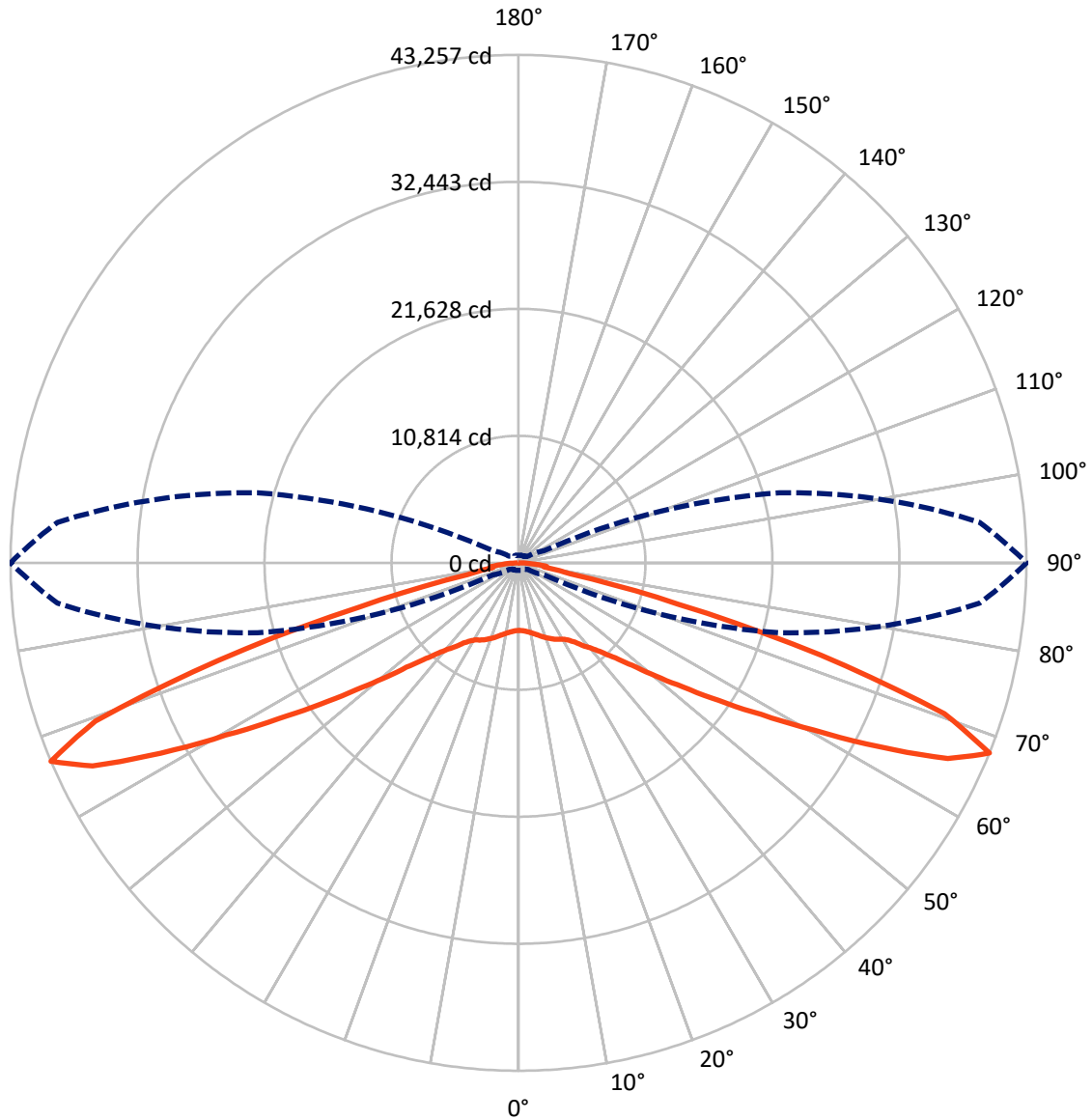
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 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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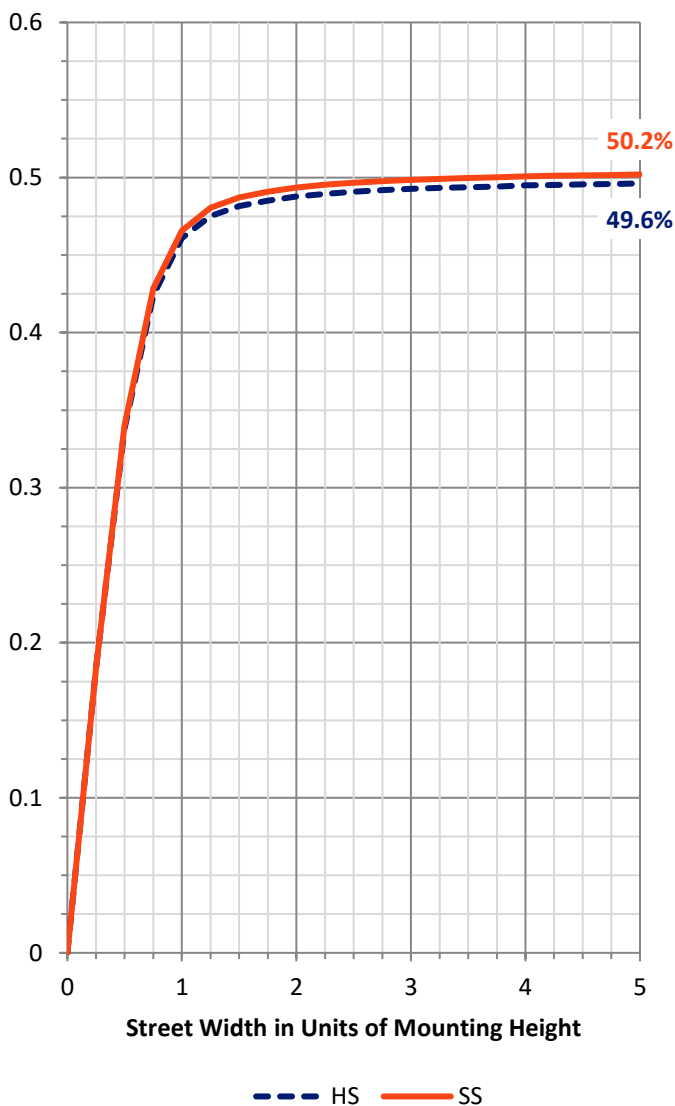
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16261.6	0.0	16261.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16261.6	0.0	16261.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	32523.2	0.0	32523.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	574.0	1.8
10°-20°	1836.6	5.6
20°-30°	3074.0	9.5
30°-40°	4164.5	12.8
40°-50°	5275.0	16.2
50°-60°	6589.8	20.3
60°-70°	7746.0	23.8
70°-80°	2963.2	9.1
80°-90°	300.2	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°	32523.2	100.0
0°-180°	32523.2	100.0

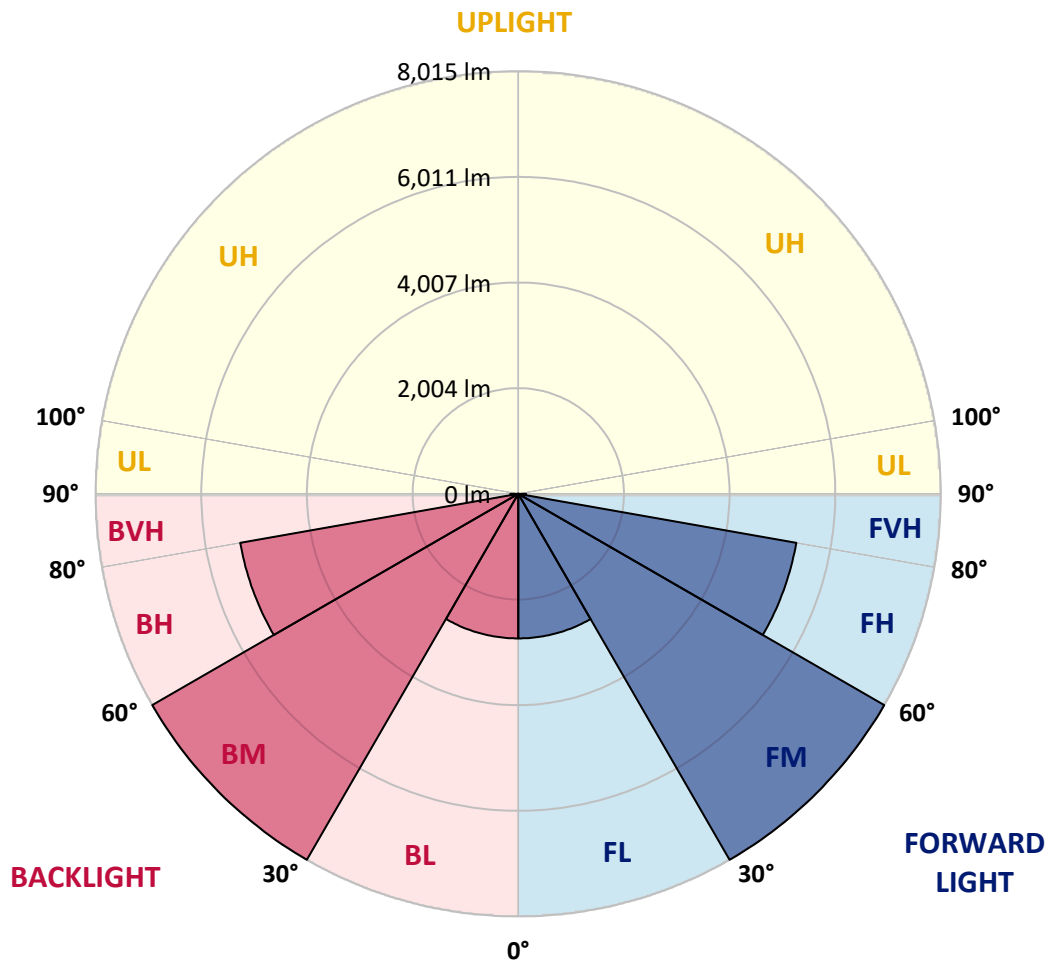


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2742.3	8.4			
FM (30°-60°)	8014.6	24.6			
FH (60°-80°)	5354.6	16.5			G3/7500
FVH (80°-90°)	150.1	0.5			G2/225
BL (0°-30°)	2742.3	8.4	B4/5000		
BM (30°-60°)	8014.6	24.6	B4/8500		
BH (60°-80°)	5354.6	16.5	B5		G5
BVH (80°-90°)	150.1	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°	5757.6	5757.6	5757.6	5757.6	5757.6	5757.6	5757.6	5757.6	5757.6	5757.6	5757.6
2.5°	5831.4	5827.9	5829.6	5827.9	5833.3	5829.6	5808.0	5790.0	5775.7	5777.4	5772.0
5°	5955.7	5957.5	5959.3	5950.3	5962.9	5955.7	5921.5	5892.7	5863.9	5853.0	5849.5
7.5°	6058.4	6067.4	6072.8	6081.8	6103.4	6103.4	6085.4	6043.9	5980.9	5944.9	5943.1
10°	6161.0	6168.2	6184.5	6213.2	6249.3	6283.4	6276.3	6220.5	6139.4	6078.2	6063.8
12.5°	6197.1	6206.1	6260.1	6342.9	6424.0	6490.6	6490.6	6445.6	6341.1	6247.5	6220.5
15°	6071.0	6087.2	6184.5	6360.9	6573.4	6719.3	6751.7	6688.7	6577.0	6433.0	6400.5
17.5°	5820.6	5860.3	6002.6	6263.7	6616.7	6919.2	7012.8	6982.2	6838.2	6654.5	6616.7
20°	5552.3	5595.5	5746.8	6092.6	6580.7	7036.3	7308.2	7315.4	7137.1	6870.6	6814.8
22.5°	5256.9	5289.4	5483.9	5889.1	6472.6	7063.3	7562.2	7686.4	7445.1	7086.7	7007.5
25°	4925.6	4961.6	5165.1	5602.7	6269.1	7032.7	7794.5	8068.2	7767.5	7317.2	7216.4
27.5°	4608.6	4623.0	4841.0	5285.8	6000.7	6953.5	7965.5	8419.4	8124.1	7508.1	7380.3
30°	4304.2	4338.5	4531.1	4970.6	5692.8	6798.6	8113.2	8819.2	8507.6	7708.0	7544.1
32.5°	3981.9	4023.3	4232.2	4677.1	5384.8	6566.2	8203.3	9256.8	9042.5	8032.2	7857.5
35°	3672.1	3699.1	3909.8	4342.1	5084.1	6296.1	8219.5	9750.3	9732.3	8523.9	8291.5
37.5°	3355.2	3394.8	3607.3	4021.5	4765.3	6009.7	8138.4	10274.4	10564.3	9206.4	8956.1
40°	3050.8	3085.0	3293.9	3711.8	4403.3	5660.4	7945.8	10753.4	11535.1	9908.7	9554.0
42.5°	2719.5	2728.5	2957.1	3382.2	4048.5	5255.2	7668.4	11180.3	12617.4	10850.7	10409.5
45°	2343.0	2366.4	2578.9	2996.7	3641.5	4801.3	7292.0	11533.2	13989.7	12156.3	11554.8
47.5°	1966.6	1986.4	2181.0	2593.4	3196.6	4280.9	6712.1	11843.0	15398.0	13815.0	13026.2
50°	1599.2	1610.0	1768.5	2134.1	2696.0	3733.4	5993.6	11942.0	16990.1	16163.4	15156.8
52.5°	1264.3	1280.5	1401.1	1687.5	2161.1	3086.8	5217.3	11697.1	18848.7	18947.7	17528.5
55°	1024.8	1030.1	1120.2	1330.9	1689.3	2409.6	4280.9	11014.6	20847.7	22515.3	20705.4
57.5°	882.5	886.1	936.5	1053.5	1300.3	1817.1	3320.9	9723.3	22643.3	26695.4	24368.6
60°	801.4	803.2	832.0	900.5	1030.1	1394.0	2379.0	7900.7	24415.4	31347.2	28921.3
62.5°	751.0	751.0	770.8	808.6	871.7	1069.8	1723.5	5700.0	25629.2	36067.5	34533.1
65°	702.4	702.4	716.8	743.8	778.0	875.2	1273.3	3717.1	25598.6	39505.5	40177.2
67.5°	646.6	646.6	657.3	684.3	704.2	752.8	983.3	2434.9	22994.5	39429.8	43256.8
70°	579.9	579.9	594.3	617.7	633.9	664.6	776.2	1665.9	16892.8	33666.8	38469.9
72.5°	513.3	515.0	524.1	547.5	560.1	578.1	644.7	1167.0	10362.6	22924.1	26898.9
75°	439.4	443.0	452.0	475.4	486.3	493.5	543.9	832.0	5242.5	12359.8	14072.5
77.5°	354.8	362.0	367.4	392.6	399.8	410.6	448.4	601.5	2301.6	4441.2	4480.8
80°	259.4	268.4	284.5	308.0	313.4	320.6	342.2	426.8	1042.8	2027.8	2202.6
82.5°	190.9	203.5	183.7	214.3	214.3	205.3	241.4	286.4	479.0	2008.1	2402.5
85°	104.5	106.2	95.5	109.8	117.1	115.3	127.8	140.4	232.3	1339.9	1381.3
87.5°	25.2	27.0	28.8	34.2	41.5	41.5	45.0	39.6	75.6	434.0	248.5
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)