

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: P651577

Luminaire Tested: **GALN-SA8D-840-U-T1**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651577  
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-SA8D-840-U-T1  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 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: 52443.1 lumens  
Efficiency: N/A  
Efficacy: 106.4 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

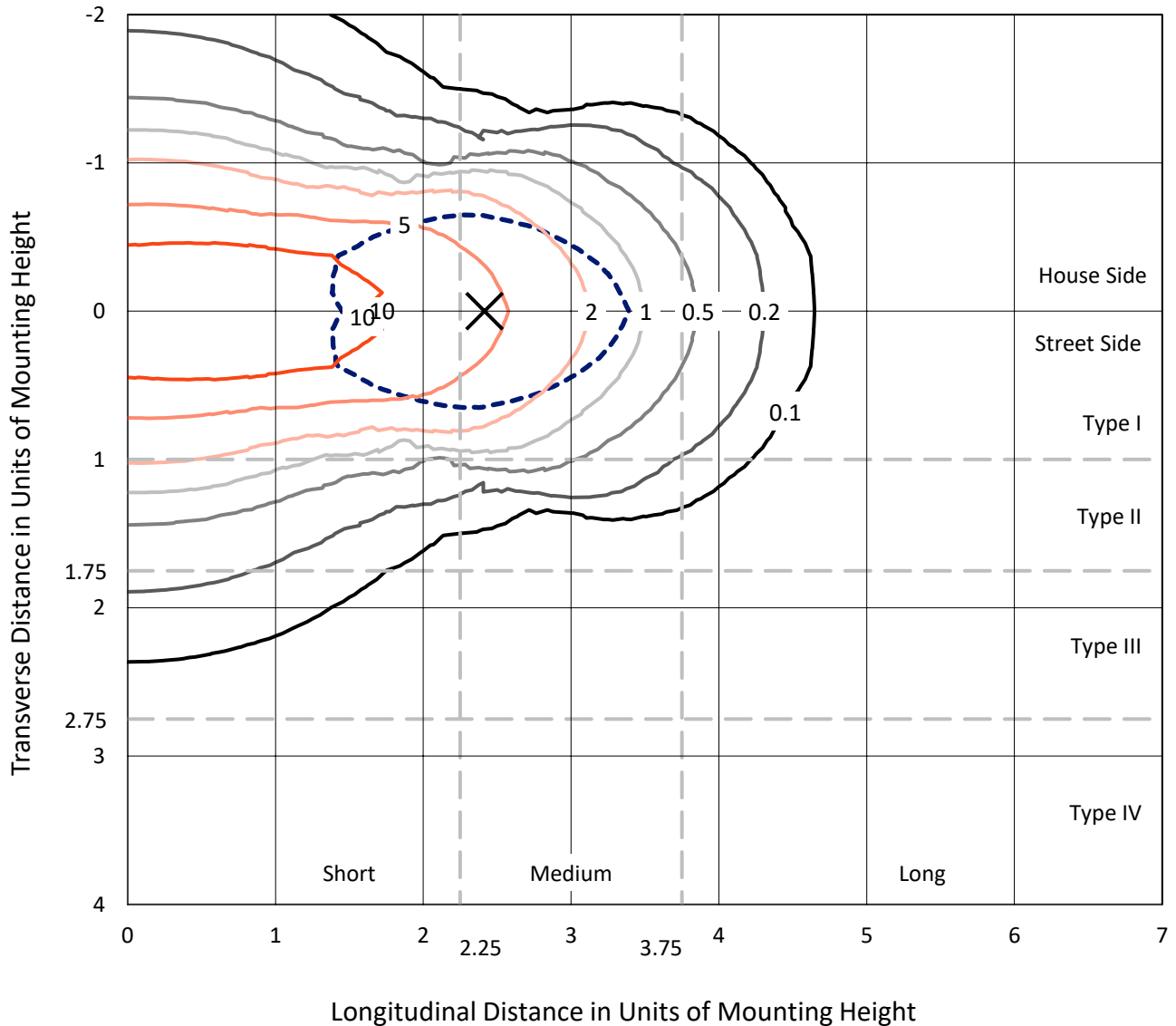
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

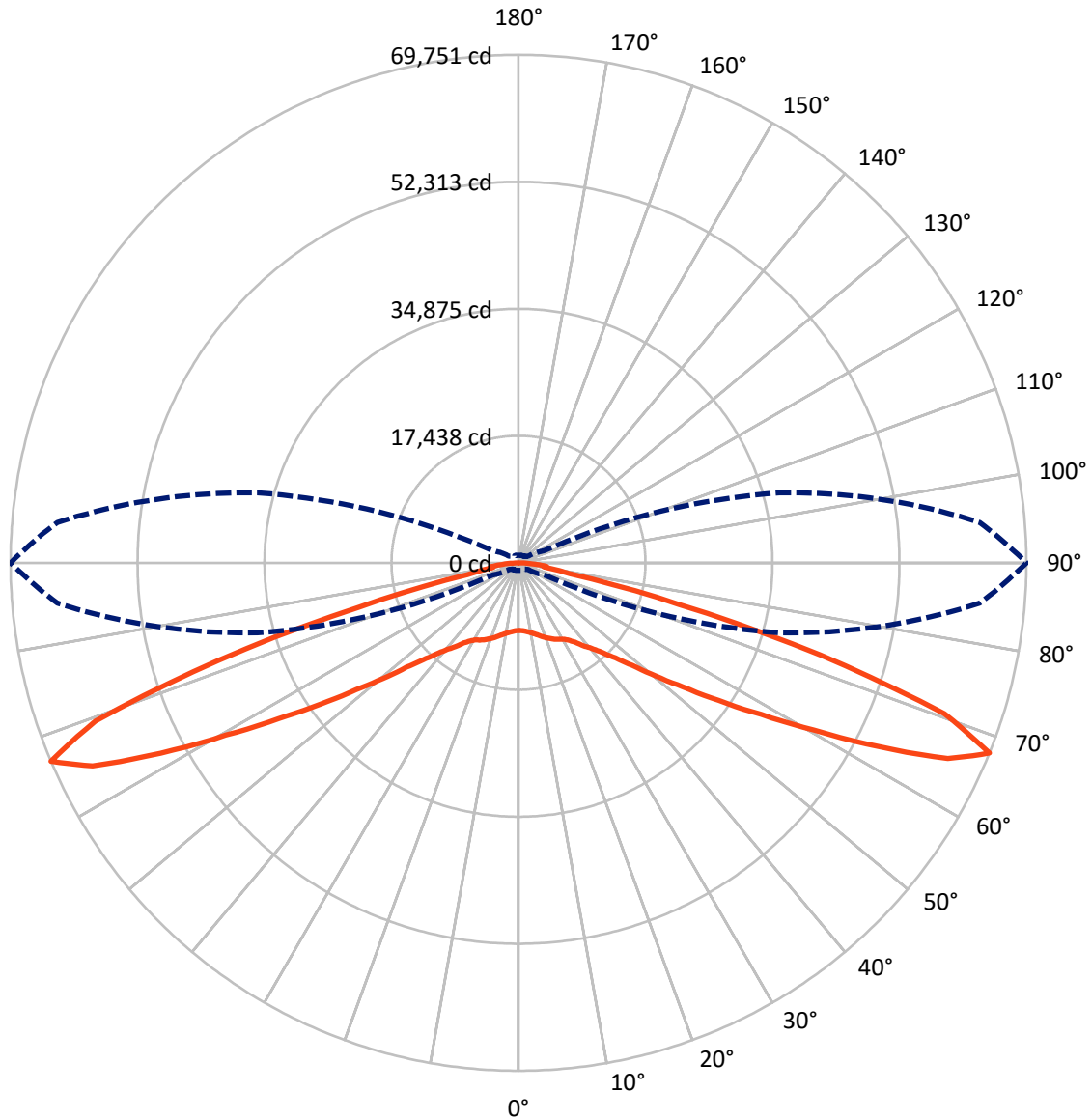
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.6 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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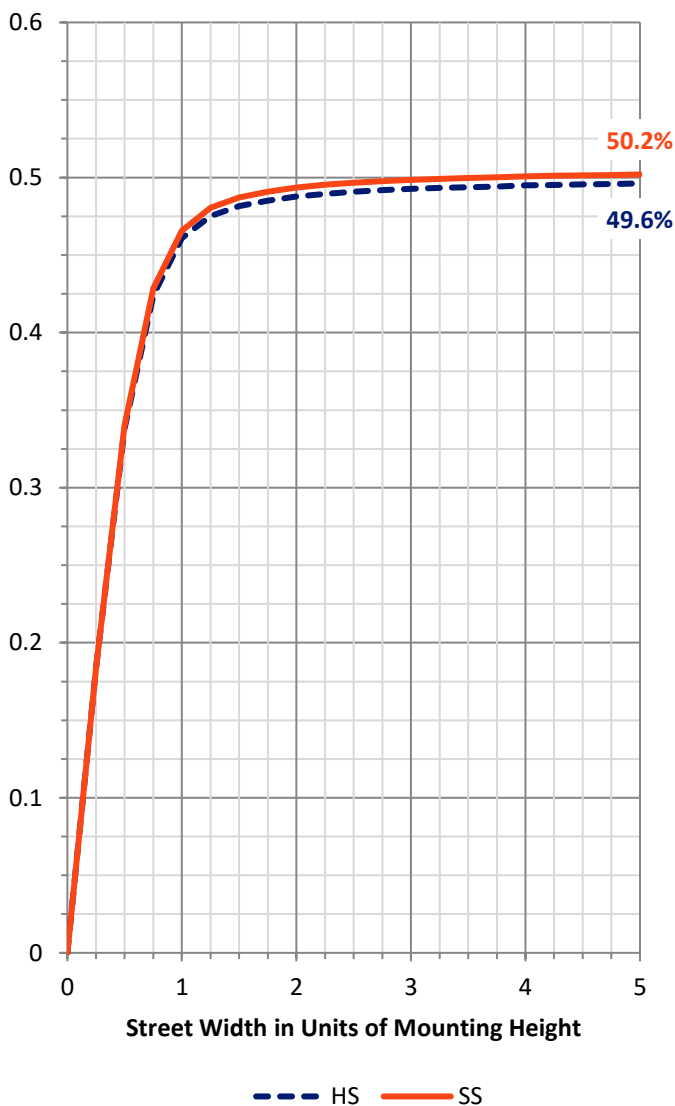
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	26221.5	0.0	26221.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	26221.5	0.0	26221.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	52443.1	0.0	52443.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	925.6	1.8
10°-20°	2961.5	5.6
20°-30°	4956.8	9.5
30°-40°	6715.1	12.8
40°-50°	8505.8	16.2
50°-60°	10625.9	20.3
60°-70°	12490.2	23.8
70°-80°	4778.1	9.1
80°-90°	484.1	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°	52443.1	100.0
0°-180°	52443.1	100.0

**Coefficient of Utilization**

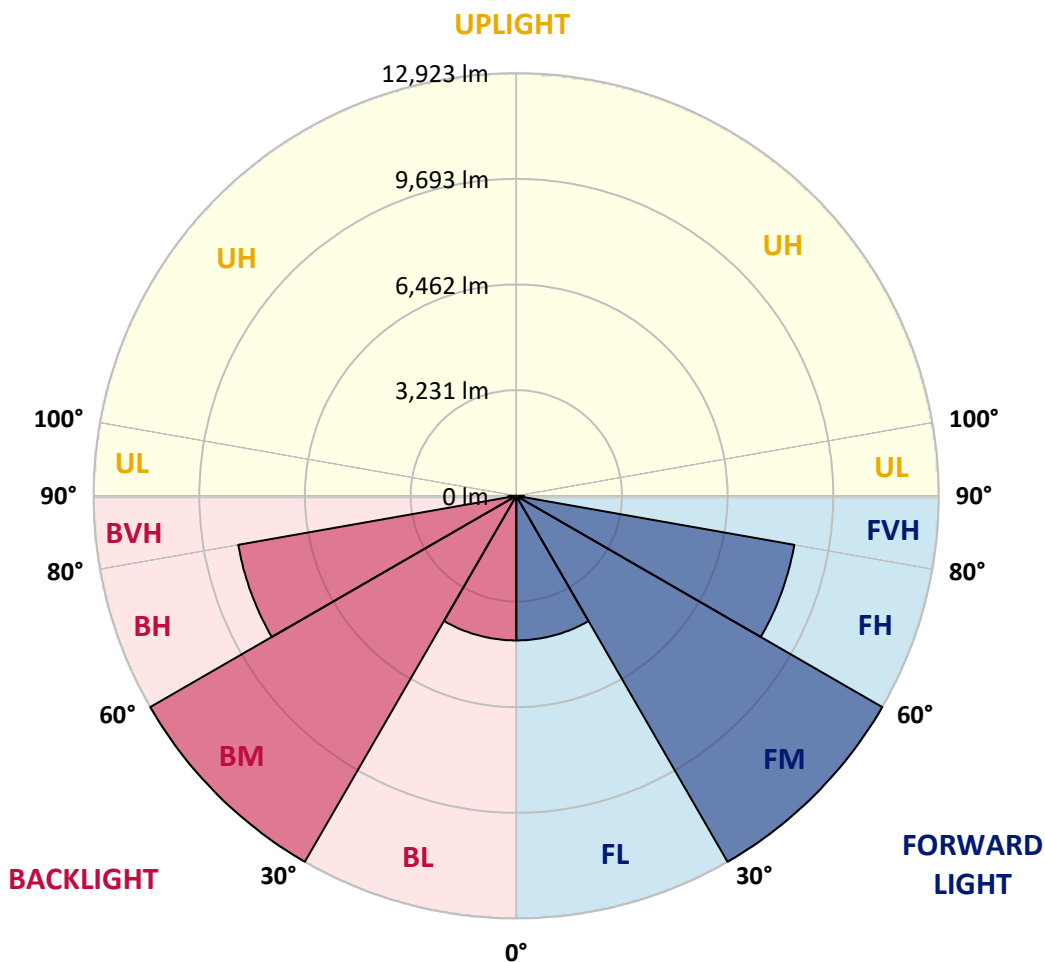


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4421.9	8.4			
FM	(30°-60°)	12923.4	24.6			
FH	(60°-80°)	8634.2	16.5			G4/12000
FVH	(80°-90°)	242.0	0.5			G3/500
BL	(0°-30°)	4421.9	8.4	B4/5000		
BM	(30°-60°)	12923.4	24.6	B5		
BH	(60°-80°)	8634.2	16.5	B5		G5
BVH	(80°-90°)	242.0	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°	9284.1	9284.1	9284.1	9284.1	9284.1	9284.1	9284.1	9284.1	9284.1	9284.1	9284.1
2.5°	9403.1	9397.3	9400.2	9397.3	9406.0	9400.2	9365.4	9336.4	9313.1	9316.0	9307.3
5°	9603.5	9606.4	9609.3	9594.8	9615.2	9603.5	9548.3	9501.9	9455.4	9438.0	9432.2
7.5°	9769.1	9783.5	9792.3	9806.8	9841.6	9841.6	9812.6	9745.8	9644.2	9586.1	9583.2
10°	9934.6	9946.2	9972.3	10018.7	10076.9	10132.0	10120.4	10030.4	9899.7	9800.9	9777.7
12.5°	9992.6	10007.1	10094.3	10227.8	10358.5	10466.0	10466.0	10393.4	10225.0	10073.9	10030.4
15°	9789.3	9815.5	9972.3	10256.9	10599.5	10834.8	10887.1	10785.4	10605.3	10373.1	10320.8
17.5°	9385.7	9449.6	9679.0	10100.1	10669.3	11157.1	11308.2	11258.8	11026.4	10730.2	10669.3
20°	8953.0	9022.7	9266.6	9824.2	10611.1	11345.9	11784.4	11796.0	11508.5	11078.7	10988.7
22.5°	8476.8	8529.0	8842.6	9496.1	10437.0	11389.4	12193.8	12394.2	12005.1	11427.2	11299.4
25°	7942.4	8000.5	8328.7	9034.3	10108.8	11340.0	12568.5	13009.8	12524.9	11798.9	11636.3
27.5°	7431.3	7454.5	7805.9	8523.2	9676.1	11212.3	12844.3	13576.2	13099.9	12106.7	11900.6
30°	6940.5	6995.7	7306.4	8015.0	9179.5	10962.6	13082.5	14220.8	13718.5	12429.1	12164.8
32.5°	6420.7	6487.5	6824.4	7541.7	8682.9	10587.9	13227.7	14926.5	14580.9	12951.8	12670.1
35°	5921.2	5964.8	6304.6	7001.5	8198.0	10152.4	13253.8	15722.2	15693.1	13744.5	13370.0
37.5°	5410.2	5474.0	5816.7	6484.6	7684.0	9690.6	13123.1	16567.3	17034.8	14845.2	14441.6
40°	4919.3	4974.5	5311.4	5985.1	7100.2	9127.2	12812.4	17339.7	18600.1	15977.7	15405.7
42.5°	4385.1	4399.5	4768.4	5453.7	6528.2	8473.8	12365.2	18028.0	20345.4	17496.6	16785.1
45°	3778.1	3815.9	4158.5	4832.2	5871.9	7742.1	11758.3	18597.1	22558.2	19601.9	18632.0
47.5°	3171.2	3203.1	3516.7	4181.7	5154.6	6902.8	10823.2	19096.7	24829.1	22276.5	21004.6
50°	2578.8	2596.2	2851.7	3441.2	4347.3	6020.0	9664.5	19256.4	27396.2	26063.3	24440.0
52.5°	2038.6	2064.7	2259.3	2721.1	3484.8	4977.5	8412.9	18861.4	30393.2	30552.9	28264.6
55°	1652.4	1661.1	1806.3	2146.1	2723.9	3885.5	6902.8	17760.8	33616.6	36305.7	33387.2
57.5°	1423.0	1428.8	1510.1	1698.8	2096.7	2930.1	5355.0	15678.7	36511.8	43045.8	39293.9
60°	1292.3	1295.1	1341.6	1452.0	1661.1	2247.7	3836.1	12739.8	39369.4	50546.9	46635.2
62.5°	1211.0	1211.0	1242.9	1303.9	1405.6	1725.0	2779.1	9191.1	41326.7	58158.2	55684.0
65°	1132.6	1132.6	1155.8	1199.4	1254.5	1411.4	2053.1	5993.8	41277.3	63702.0	64785.1
67.5°	1042.5	1042.5	1060.0	1103.5	1135.4	1213.9	1585.5	3926.2	37078.2	63579.9	69750.9
70°	935.1	935.1	958.3	996.1	1022.2	1071.6	1251.7	2686.2	27239.4	54287.2	62032.2
72.5°	827.6	830.6	845.0	882.8	903.1	932.2	1039.6	1881.8	16709.6	36964.9	43374.0
75°	708.5	714.3	728.9	766.7	784.1	795.7	877.0	1341.6	8453.5	19930.1	22691.8
77.5°	572.0	583.7	592.4	633.1	644.7	662.1	723.1	969.9	3711.3	7161.2	7225.1
80°	418.1	432.7	458.8	496.6	505.3	516.9	551.8	688.3	1681.4	3269.9	3551.5
82.5°	307.8	328.2	296.2	345.6	345.6	331.0	389.1	461.7	772.5	3237.9	3873.9
85°	168.5	171.3	153.9	177.1	188.7	185.9	206.2	226.5	374.6	2160.5	2227.4
87.5°	40.6	43.6	46.4	55.2	66.8	66.8	72.6	63.9	121.9	699.9	400.7
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)