

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: P454527

Luminaire Tested: **GALN-SA5C-827-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454527
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-SA5C-827-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25836 lumens
Efficiency: N/A
Efficacy: 96.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

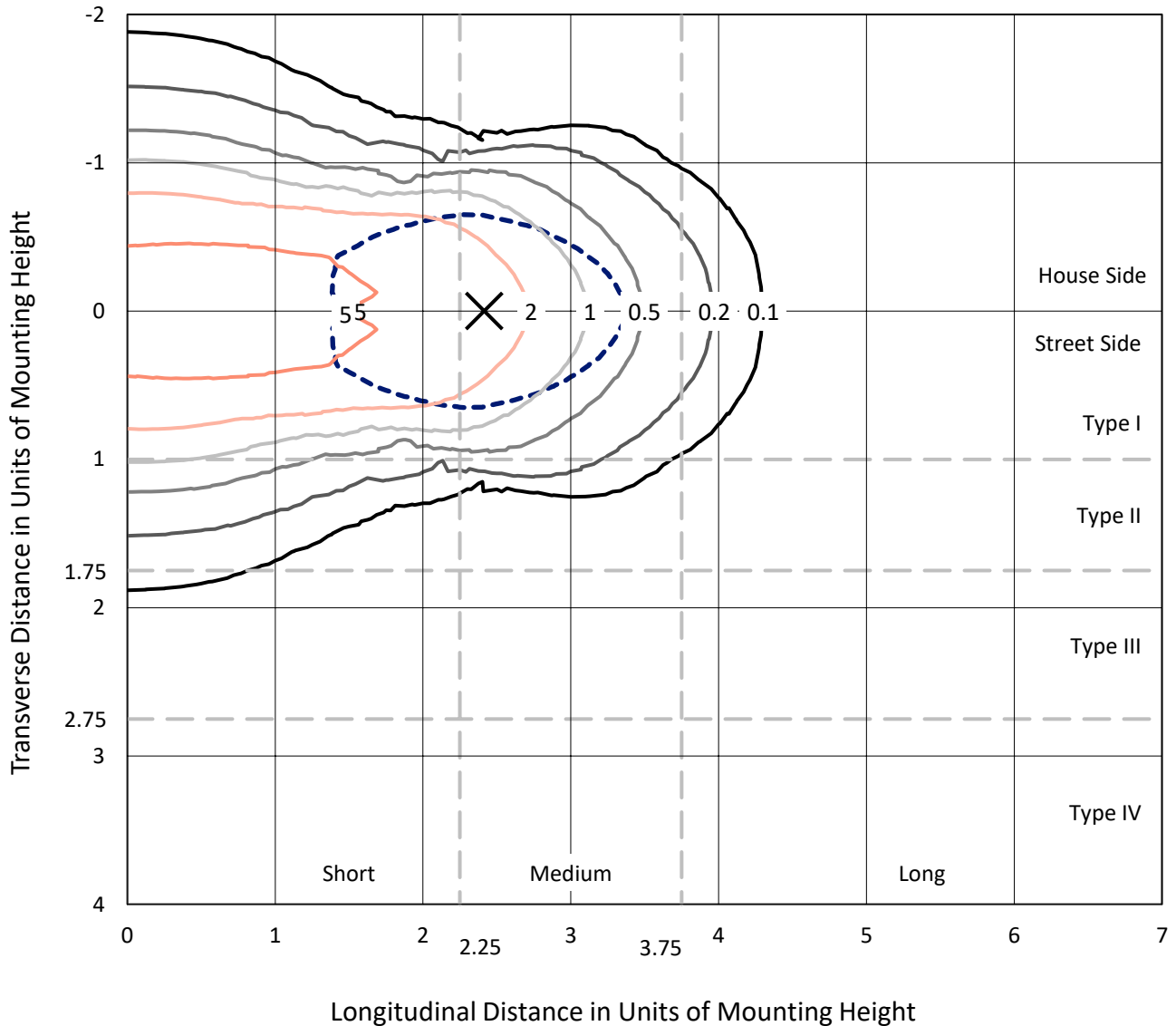
Input Watts (W): 269
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

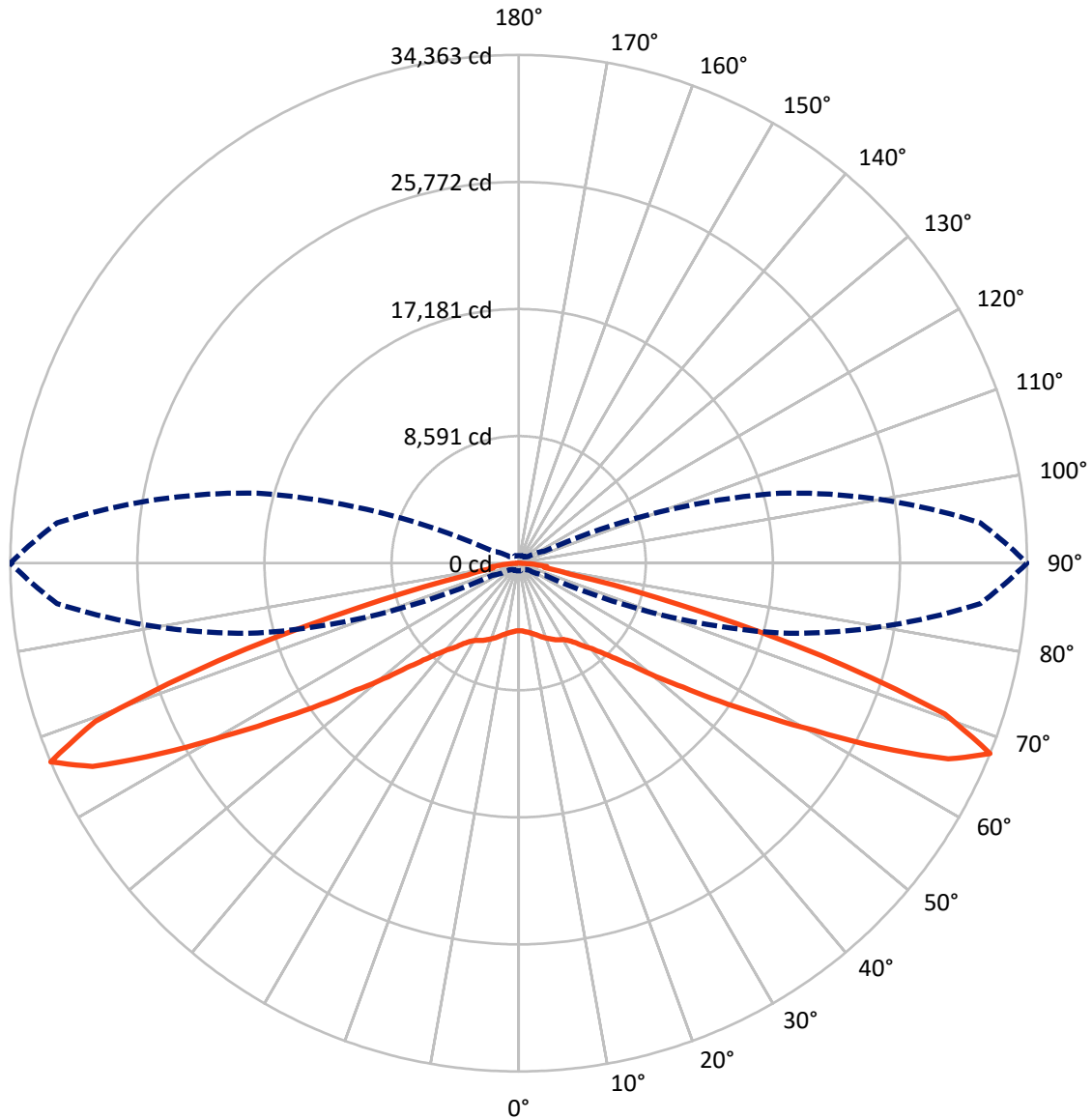
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 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	12918.0	0.0	12918.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12918.0	0.0	12918.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	25836.0	0.0	25836.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	456.0	1.8
10°-20°	1459.0	5.6
20°-30°	2441.9	9.5
30°-40°	3308.2	12.8
40°-50°	4190.4	16.2
50°-60°	5234.8	20.3
60°-70°	6153.3	23.8
70°-80°	2353.9	9.1
80°-90°	238.5	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°	25836.0	100.0
0°-180°	25836.0	100.0



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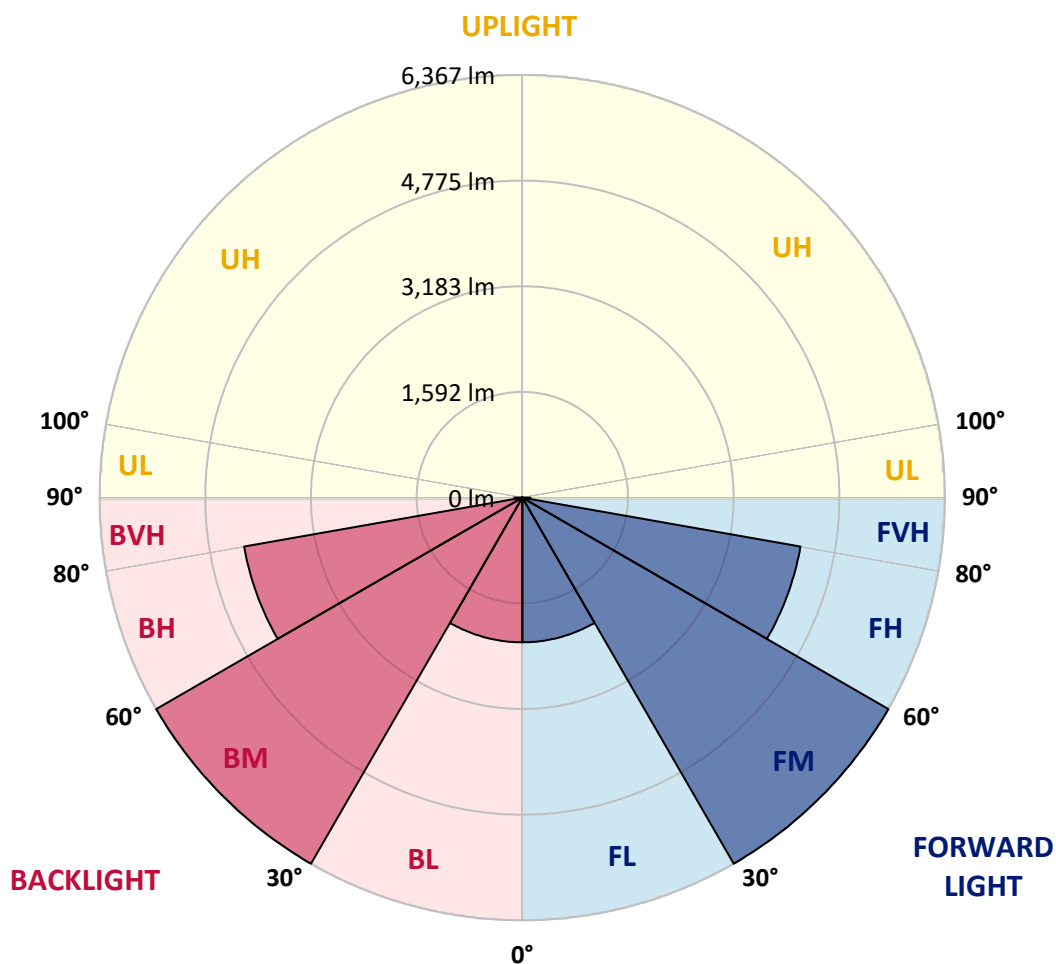
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2178.5	8.4			
FM (30°-60°)	6366.7	24.6			
FH (60°-80°)	4253.6	16.5			G2/5000
FVH (80°-90°)	119.2	0.5			G2/225
BL (0°-30°)	2178.5	8.4	B3/2500		
BM (30°-60°)	6366.7	24.6	B4/8500		
BH (60°-80°)	4253.6	16.5	B4/5000		G4/5000
BVH (80°-90°)	119.2	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4573.8	4573.8	4573.8	4573.8	4573.8	4573.8	4573.8	4573.8	4573.8	4573.8	4573.8
2.5°	4632.4	4629.6	4631.0	4629.6	4633.9	4631.0	4613.8	4599.5	4588.1	4589.5	4585.2
5°	4731.1	4732.6	4734.0	4726.9	4736.9	4731.1	4704.0	4681.1	4658.2	4649.6	4646.7
7.5°	4812.7	4819.8	4824.1	4831.3	4848.5	4848.5	4834.2	4801.2	4751.2	4722.6	4721.1
10°	4894.2	4900.0	4912.8	4935.7	4964.3	4991.5	4985.8	4941.5	4877.1	4828.4	4817.0
12.5°	4922.9	4930.0	4972.9	5038.7	5103.1	5156.0	5156.0	5120.3	5037.3	4962.9	4941.5
15°	4822.7	4835.6	4912.8	5053.0	5221.9	5337.7	5363.5	5313.4	5224.7	5110.3	5084.5
17.5°	4623.8	4655.3	4768.3	4975.8	5256.2	5496.5	5570.9	5546.6	5432.2	5286.2	5256.2
20°	4410.7	4445.0	4565.2	4839.9	5227.6	5589.5	5805.6	5811.3	5669.7	5457.9	5413.6
22.5°	4176.1	4201.8	4356.3	4678.2	5141.7	5611.0	6007.3	6106.0	5914.3	5629.6	5566.6
25°	3912.8	3941.4	4103.1	4450.7	4980.1	5586.7	6191.8	6409.3	6170.4	5812.7	5732.6
27.5°	3661.0	3672.5	3845.6	4198.9	4766.9	5523.7	6327.7	6688.3	6453.6	5964.4	5862.8
30°	3419.2	3446.4	3599.5	3948.6	4522.3	5400.7	6445.1	7005.9	6758.4	6123.2	5993.0
32.5°	3163.2	3196.1	3362.0	3715.4	4277.6	5216.1	6516.6	7353.5	7183.3	6380.7	6241.9
35°	2917.1	2938.5	3105.9	3449.3	4038.7	5001.5	6529.5	7745.5	7731.2	6771.2	6586.7
37.5°	2665.3	2696.8	2865.6	3194.6	3785.5	4774.1	6465.1	8161.8	8392.2	7313.5	7114.6
40°	2423.5	2450.7	2616.7	2948.6	3497.9	4496.5	6312.0	8542.4	9163.3	7871.4	7589.6
42.5°	2160.3	2167.4	2349.1	2686.8	3216.1	4174.6	6091.7	8881.5	10023.1	8619.6	8269.1
45°	1861.3	1879.9	2048.7	2380.6	2892.8	3814.1	5792.7	9161.9	11113.3	9656.9	9179.0
47.5°	1562.3	1578.0	1732.5	2060.1	2539.4	3400.6	5332.0	9407.9	12232.0	10974.5	10347.9
50°	1270.4	1279.0	1404.9	1695.3	2141.7	2965.7	4761.2	9486.6	13496.7	12840.1	12040.3
52.5°	1004.3	1017.2	1113.0	1340.5	1716.8	2452.1	4144.6	9292.0	14973.1	15051.8	13924.5
55°	814.0	818.3	889.9	1057.2	1341.9	1914.2	3400.6	8749.8	16561.2	17885.9	16448.1
57.5°	701.0	703.9	743.9	836.9	1032.9	1443.5	2638.1	7724.1	17987.5	21206.5	19358.1
60°	636.6	638.1	661.0	715.3	818.3	1107.3	1889.9	6276.2	19395.3	24901.8	22974.7
62.5°	596.6	596.6	612.3	642.4	692.4	849.8	1369.1	4528.0	20359.5	28651.6	27432.6
65°	558.0	558.0	569.4	590.9	618.0	695.3	1011.5	2952.9	20335.2	31382.7	31916.3
67.5°	513.6	513.6	522.2	543.6	559.4	598.0	781.1	1934.2	18266.5	31322.6	34362.7
70°	460.7	460.7	472.1	490.7	503.6	527.9	616.6	1323.3	13419.5	26744.5	30560.0
72.5°	407.7	409.2	416.3	434.9	444.9	459.2	512.2	927.1	8231.9	18210.7	21368.1
75°	349.1	351.9	359.1	377.7	386.3	392.0	432.1	661.0	4164.6	9818.5	11179.1
77.5°	281.8	287.6	291.9	311.9	317.6	326.2	356.2	477.8	1828.4	3528.0	3559.4
80°	206.0	213.2	226.0	244.6	248.9	254.7	271.8	339.1	828.3	1610.9	1749.7
82.5°	151.6	161.7	145.9	170.2	170.2	163.1	191.7	227.5	380.6	1595.2	1908.5
85°	83.0	84.4	75.8	87.3	93.0	91.6	101.6	111.6	184.6	1064.4	1097.3
87.5°	20.0	21.5	22.9	27.2	32.9	32.9	35.8	31.5	60.1	344.8	197.4
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)