

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: P529088

Luminaire Tested: **GALN-SA4B-727-U-RW-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529088
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-8)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4B-727-U-RW-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16496 lumens
Efficiency: N/A
Efficacy: 100.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

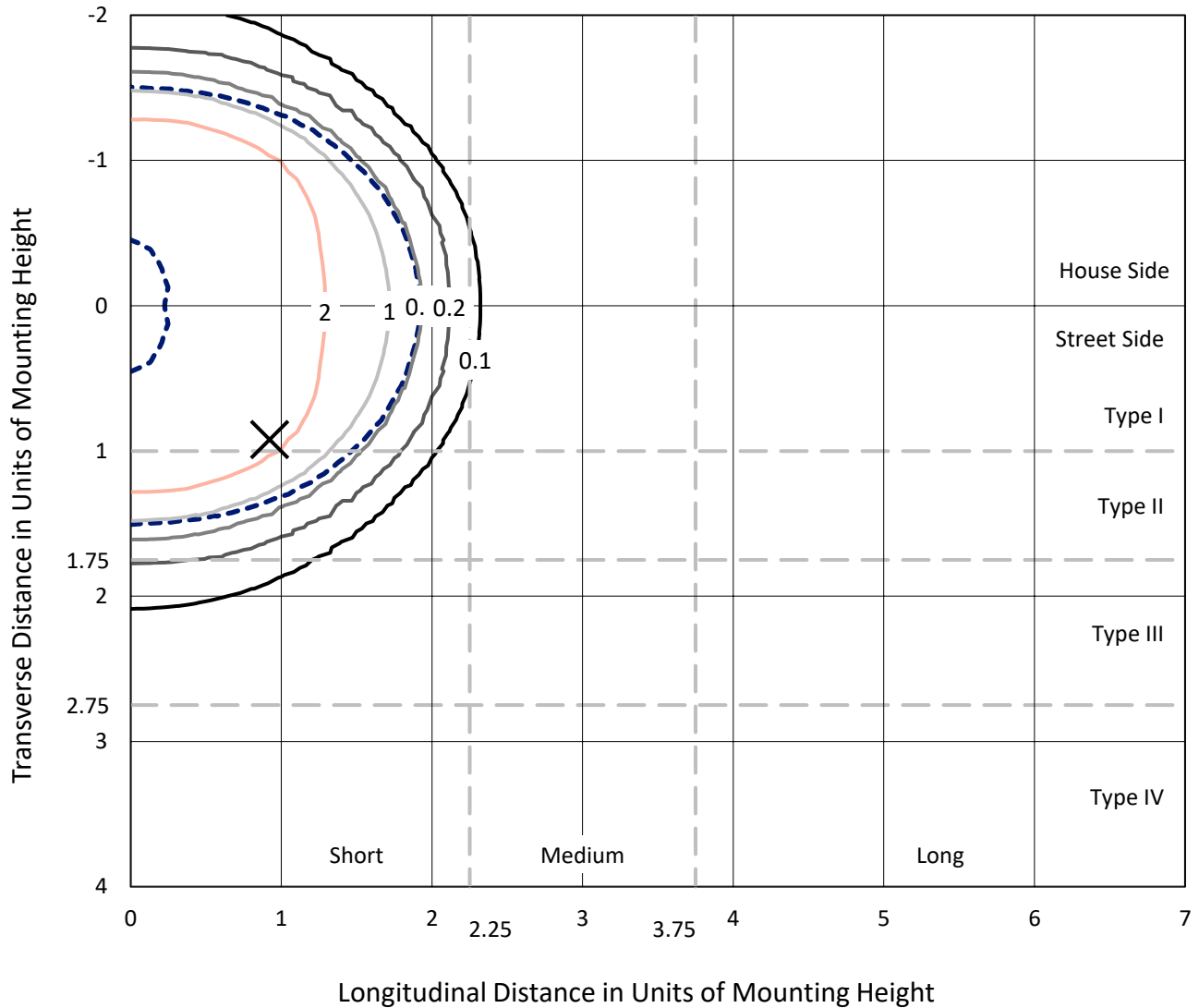
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

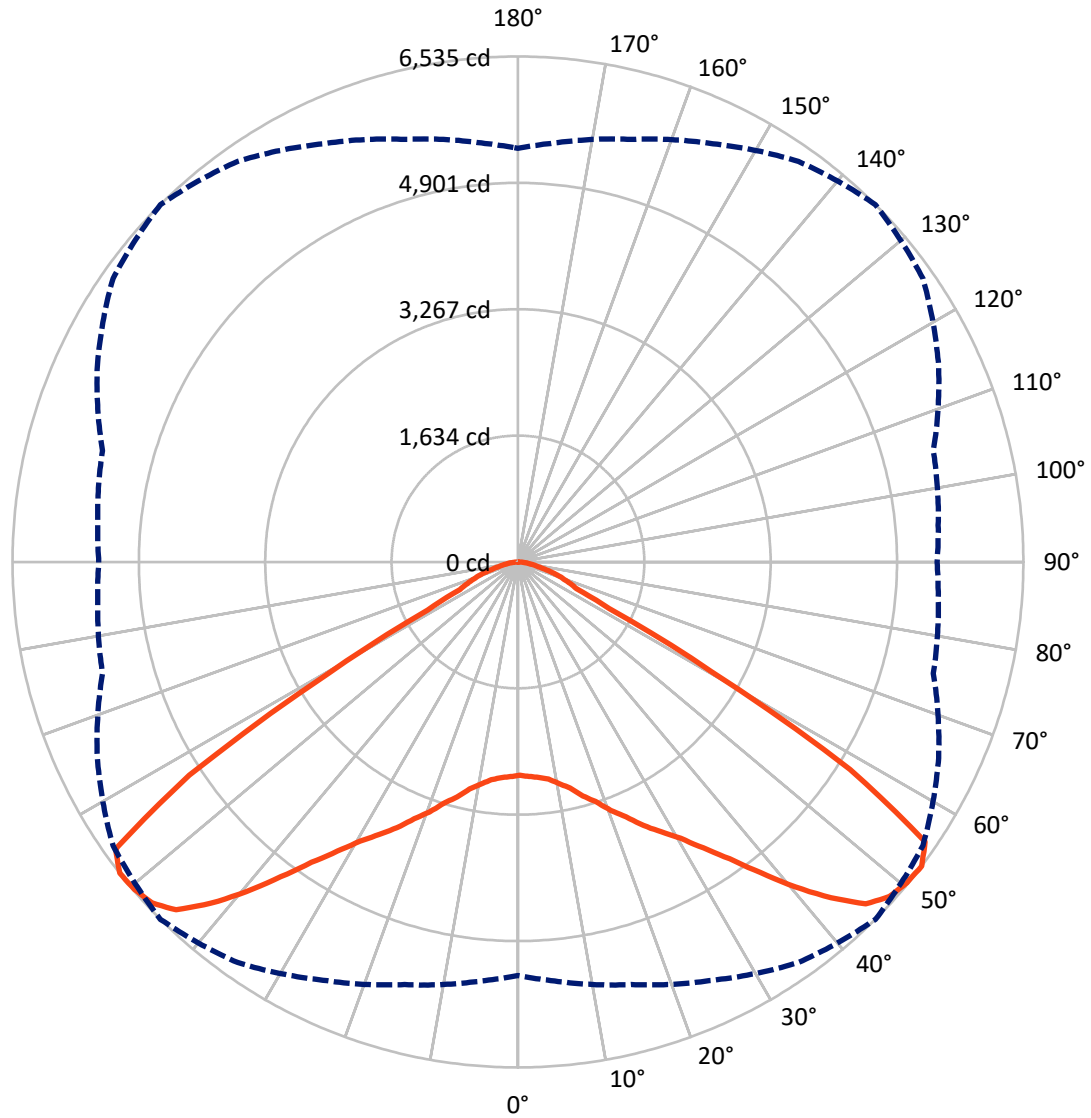
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8248.0	0.0	8248.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8248.0	0.0	8248.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	16496.0	0.0	16496.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.9	1.6
10°-20°	890.2	5.4
20°-30°	1694.9	10.3
30°-40°	2910.2	17.6
40°-50°	4473.0	27.1
50°-60°	4542.3	27.5
60°-70°	1265.9	7.7
70°-80°	373.4	2.3
80°-90°	75.2	0.5
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°	16496.0	100.0
0°-180°	16496.0	100.0

Coefficient of Utilization



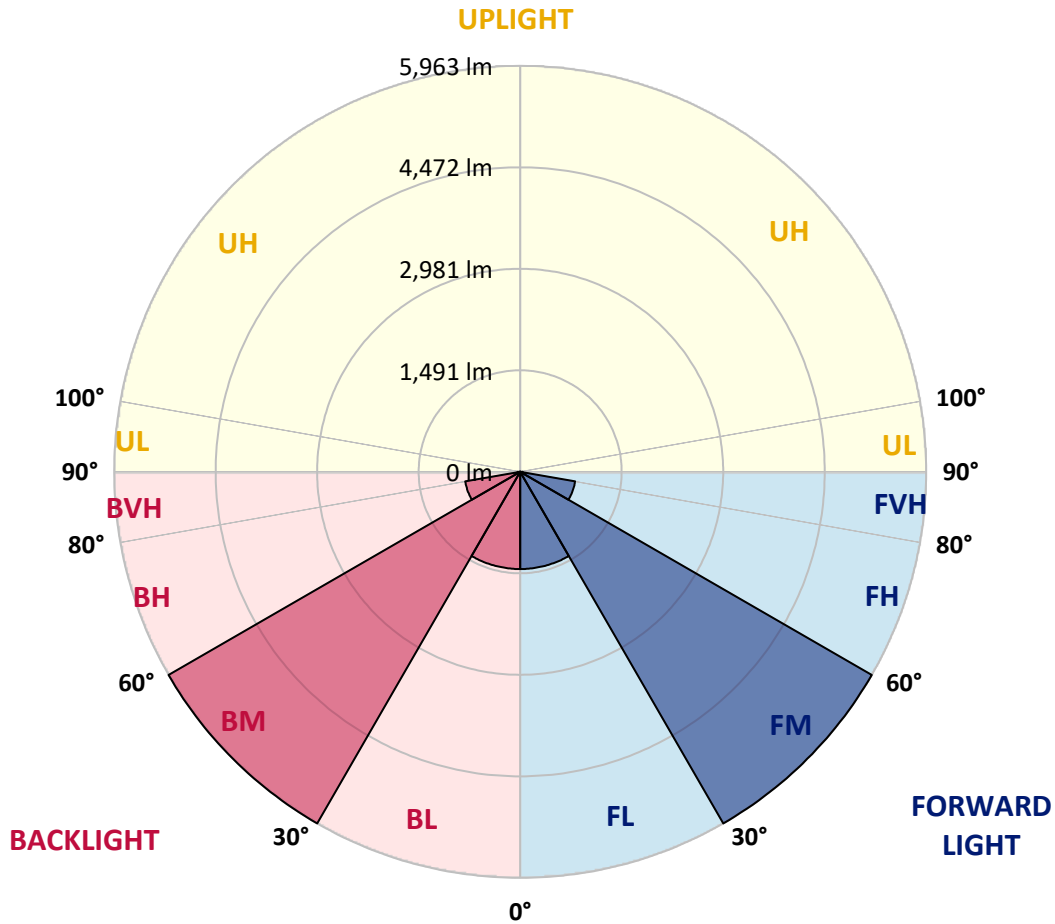
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1428.0	8.7			
FM (30°-60°)	5962.7	36.1			
FH (60°-80°)	819.6	5.0			G1/1800
FVH (80°-90°)	37.6	0.2			G1/100
BL (0°-30°)	1428.0	8.7	B3/2500		
BM (30°-60°)	5962.7	36.1	B4/8500		
BH (60°-80°)	819.6	5.0	B2/1000		G1/1800
BVH (80°-90°)	37.6	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2757.5	2757.5	2757.5	2757.5	2757.5	2757.5	2757.5	2757.5	2757.5	2757.5	2757.5
2.5°	2763.7	2735.0	2745.2	2751.4	2778.0	2775.9	2769.8	2778.0	2786.2	2788.2	2784.1
5°	2761.6	2741.1	2749.3	2755.5	2782.1	2796.4	2792.3	2827.1	2851.7	2845.6	2876.3
7.5°	2745.2	2757.5	2747.3	2778.0	2800.5	2835.3	2872.2	2904.9	2935.6	2970.4	2976.6
10°	2782.1	2782.1	2800.5	2825.1	2884.4	2911.1	2964.3	3011.4	3070.7	3111.7	3095.3
12.5°	2821.0	2827.1	2827.1	2890.6	2939.7	2999.1	3048.2	3111.7	3195.6	3244.7	3269.3
15°	2859.9	2864.0	2884.4	2970.4	3044.1	3138.3	3183.3	3240.7	3287.7	3379.9	3381.9
17.5°	2894.7	2917.2	2978.6	3074.8	3167.0	3257.0	3328.7	3388.0	3429.0	3465.8	3457.7
20°	3025.7	3042.1	3105.5	3201.8	3338.9	3426.9	3451.5	3461.7	3488.4	3562.1	3539.5
22.5°	3152.6	3158.8	3218.1	3365.5	3461.7	3578.4	3605.0	3598.9	3609.1	3627.6	3660.3
25°	3283.6	3293.9	3375.8	3500.6	3635.8	3775.0	3797.5	3750.4	3736.1	3756.5	3758.6
27.5°	3451.5	3453.6	3558.0	3666.5	3820.0	3951.0	3985.8	3949.0	3881.4	3897.8	3924.4
30°	3664.4	3650.1	3754.5	3910.1	4071.8	4145.5	4204.9	4186.4	4112.7	4098.4	4075.9
32.5°	3910.1	3914.2	4008.3	4178.3	4284.7	4407.5	4471.0	4440.3	4393.2	4368.6	4383.0
35°	4256.0	4274.5	4337.9	4479.2	4651.1	4712.6	4812.9	4747.4	4624.5	4655.2	4681.9
37.5°	4540.6	4593.8	4712.6	4880.4	4982.8	5095.4	5132.2	5044.2	4954.1	4917.3	5005.3
40°	4976.6	4960.3	5091.3	5259.2	5410.6	5523.2	5476.2	5388.1	5165.0	5167.0	5191.6
42.5°	5351.3	5359.5	5459.8	5660.4	5867.2	5936.8	5787.3	5572.4	5324.7	5298.0	5351.3
45°	5666.5	5699.3	5756.6	6024.8	6227.5	6303.2	6026.8	5773.0	5441.3	5330.8	5418.8
47.5°	5779.1	5832.4	5957.2	6202.9	6403.5	6464.9	6243.8	5879.4	5549.8	5369.7	5416.8
50°	5795.5	5777.1	5981.8	6207.0	6383.0	6516.1	6321.6	5957.2	5523.2	5429.1	5414.7
52.5°	5347.2	5437.3	5656.3	5965.4	6321.6	6534.5	6391.2	6000.2	5560.1	5453.6	5418.8
55°	4327.7	4221.2	4620.4	5140.4	5795.5	6387.1	6366.7	6022.7	5582.6	5494.6	5447.5
57.5°	2415.6	2446.4	2671.5	3236.6	4082.0	5064.7	5660.4	5785.3	5572.4	5521.2	5545.8
60°	1117.7	1128.0	1224.2	1488.3	2012.4	2872.2	3656.2	4452.6	4819.0	4892.7	4892.7
62.5°	833.2	829.1	853.7	900.8	1011.3	1320.4	1762.6	2395.2	2898.8	3250.9	3343.0
65°	753.4	751.3	763.6	780.0	788.2	831.1	929.4	1123.9	1287.7	1381.8	1365.5
67.5°	659.2	657.1	661.2	671.5	685.8	708.3	732.9	773.8	831.1	827.1	816.8
70°	532.3	532.3	538.4	546.6	563.0	589.6	618.2	646.9	696.0	706.3	704.2
72.5°	393.1	386.9	399.2	415.6	432.0	464.7	495.4	522.0	556.8	567.1	563.0
75°	249.8	253.8	262.0	280.5	309.1	331.6	364.4	386.9	409.4	417.6	419.7
77.5°	139.2	143.3	157.6	180.2	208.8	233.4	262.0	280.5	294.8	296.8	298.9
80°	83.9	86.0	100.3	120.8	145.3	172.0	194.5	212.9	225.2	219.0	217.0
82.5°	51.2	53.2	65.5	83.9	104.4	124.9	149.4	165.8	178.1	169.9	161.7
85°	26.6	28.7	38.9	51.2	67.6	77.8	77.8	69.6	67.6	63.5	61.4
87.5°	8.2	8.2	10.2	12.3	10.2	12.3	14.3	16.4	16.4	18.4	16.4
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)