

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: P529470

Luminaire Tested: **GALN-SA4C-827-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529470
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4C-827-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18046 lumens
Efficiency: N/A
Efficacy: 84.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

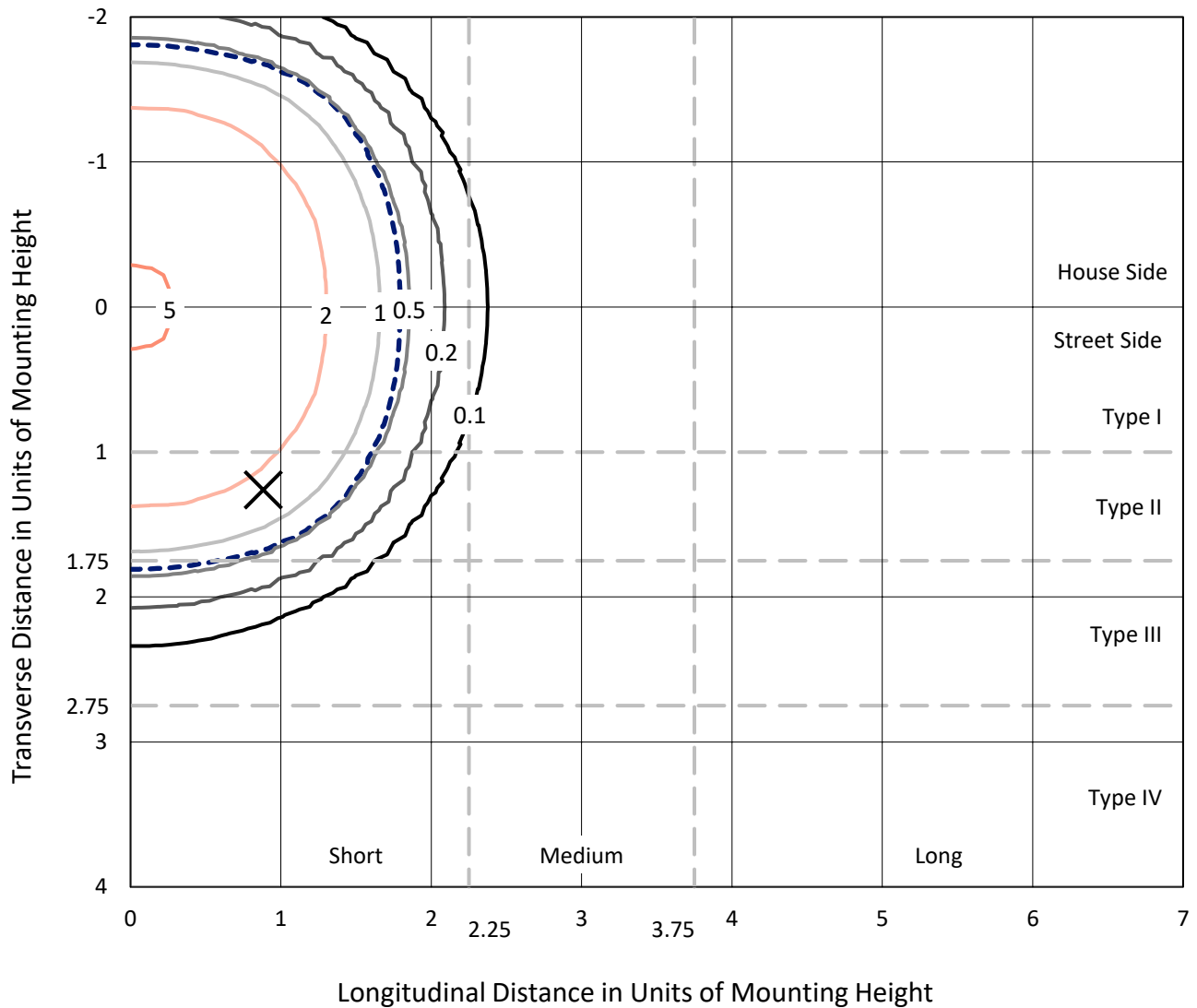
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

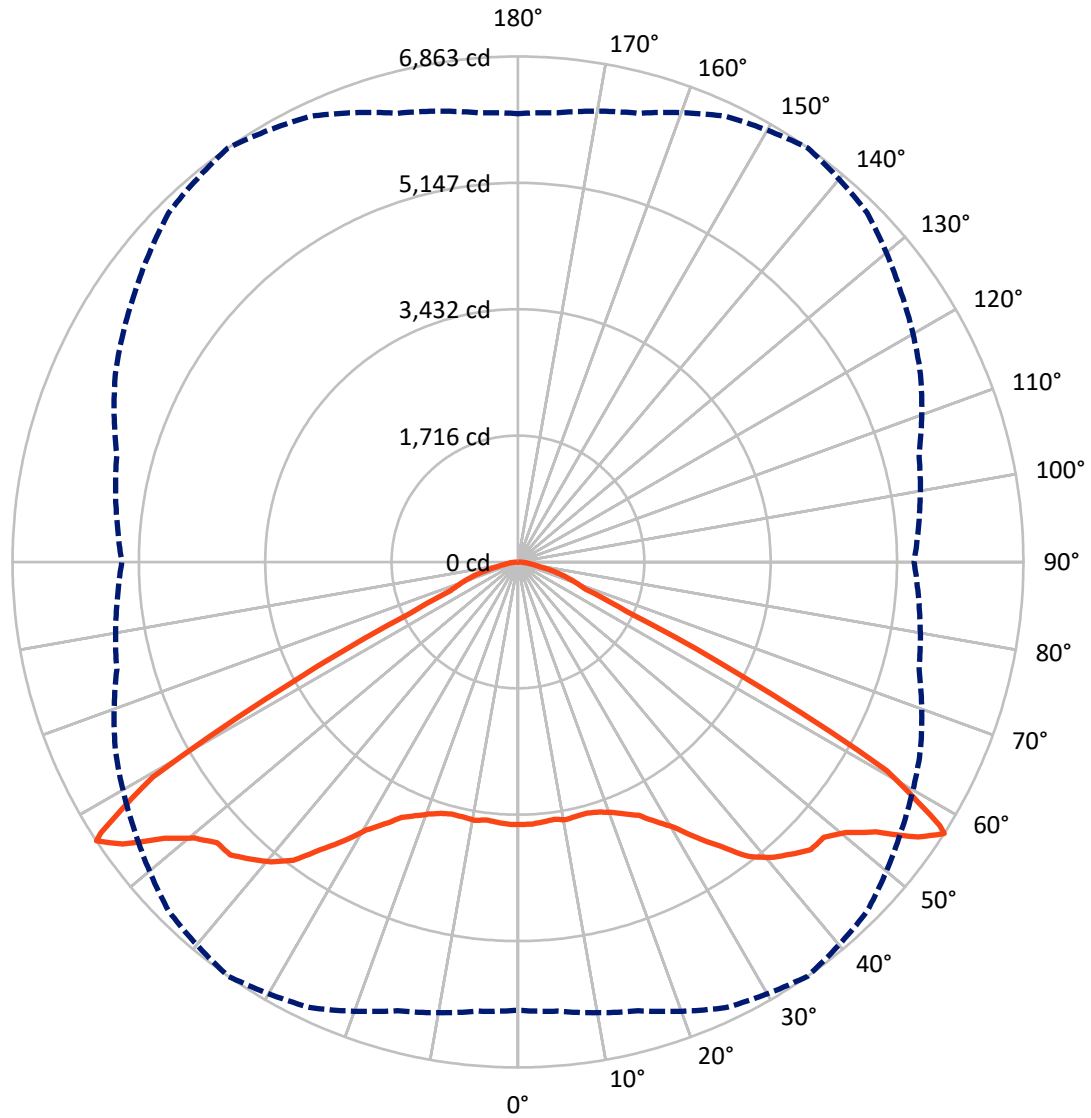
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9023.0	0.0	9023.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9023.0	0.0	9023.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	18046.0	0.0	18046.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	337.9	1.9
10°-20°	1000.7	5.5
20°-30°	1747.7	9.7
30°-40°	2863.6	15.9
40°-50°	4198.8	23.3
50°-60°	5288.7	29.3
60°-70°	1989.0	11.0
70°-80°	528.9	2.9
80°-90°	90.7	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°	18046.0	100.0
0°-180°	18046.0	100.0

Coefficient of Utilization

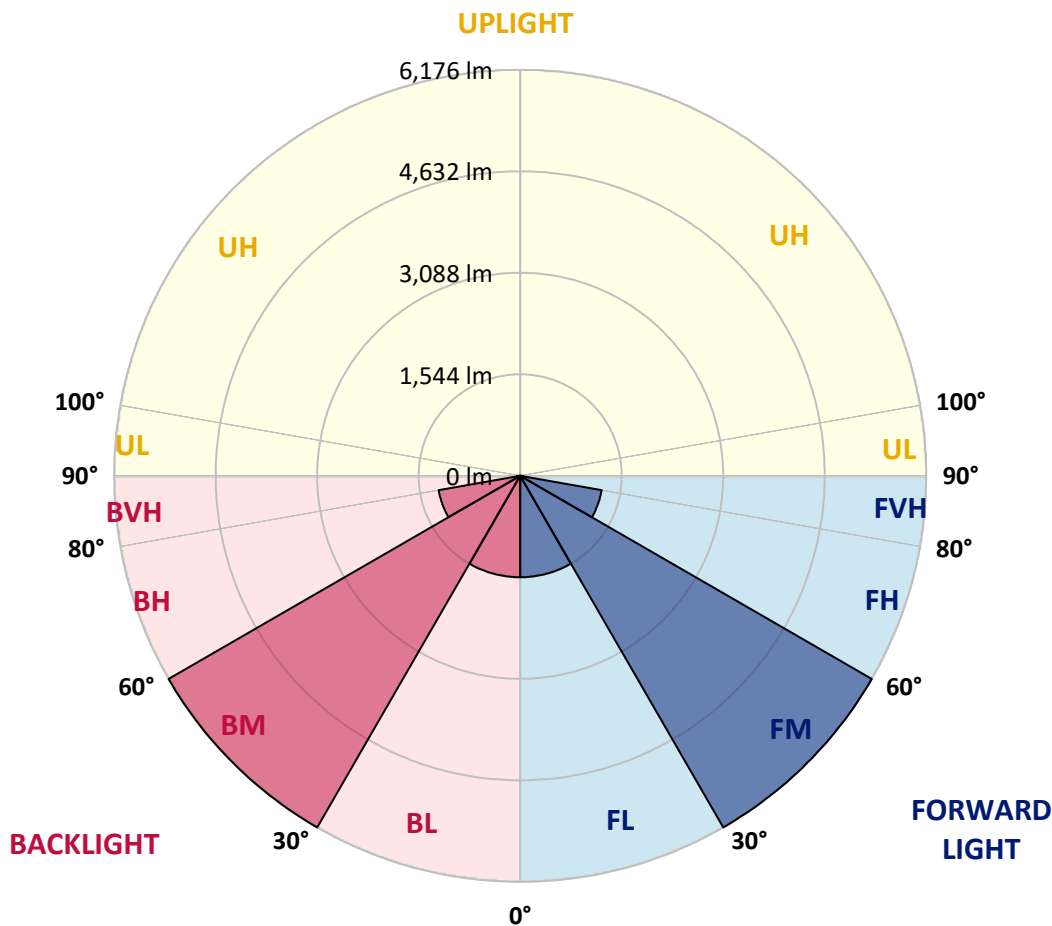


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1543.1	8.6			
FM (30°-60°)	6175.6	34.2			
FH (60°-80°)	1259.0	7.0			G1/1800
FVH (80°-90°)	45.3	0.3			G1/100
BL (0°-30°)	1543.1	8.6	B3/2500		
BM (30°-60°)	6175.6	34.2	B4/8500		
BH (60°-80°)	1259.0	7.0	B3/2500		G1/1800
BVH (80°-90°)	45.3	0.3			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°	3564.0	3564.0	3564.0	3564.0	3564.0	3564.0	3564.0	3564.0	3564.0	3564.0	3564.0
2.5°	3546.2	3581.7	3566.2	3557.3	3564.0	3552.8	3535.0	3555.1	3550.6	3532.8	3526.2
5°	3537.3	3564.0	3546.2	3564.0	3546.2	3577.3	3568.4	3535.0	3575.1	3537.3	3550.6
7.5°	3530.6	3539.5	3543.9	3535.0	3528.4	3566.2	3546.2	3530.6	3508.4	3501.7	3512.8
10°	3515.0	3537.3	3503.9	3548.4	3557.3	3530.6	3530.6	3501.7	3483.9	3472.8	3510.6
12.5°	3555.1	3517.3	3512.8	3535.0	3541.7	3552.8	3521.7	3506.1	3472.8	3477.2	3470.6
15°	3508.4	3523.9	3526.2	3530.6	3537.3	3564.0	3535.0	3501.7	3488.4	3441.7	3446.1
17.5°	3526.2	3510.6	3526.2	3577.3	3568.4	3588.4	3557.3	3506.1	3475.0	3448.3	3483.9
20°	3557.3	3550.6	3557.3	3619.5	3630.7	3648.4	3621.8	3575.1	3515.0	3483.9	3501.7
22.5°	3590.6	3586.2	3590.6	3650.7	3715.1	3737.4	3710.7	3601.7	3570.6	3512.8	3492.8
25°	3650.7	3655.1	3701.8	3768.5	3810.7	3853.0	3804.1	3726.3	3626.2	3590.6	3548.4
27.5°	3784.1	3795.2	3821.9	3919.7	3993.0	4030.8	3961.9	3855.2	3793.0	3719.6	3708.5
30°	3948.6	3948.6	3995.3	4079.8	4179.8	4237.6	4153.1	4026.4	3950.8	3910.8	3886.3
32.5°	4166.5	4142.0	4159.8	4308.8	4464.4	4513.3	4399.9	4244.3	4124.2	4070.9	4053.1
35°	4353.2	4368.8	4408.8	4568.9	4742.3	4855.7	4677.8	4475.5	4353.2	4304.3	4295.4
37.5°	4595.6	4622.2	4642.3	4862.4	5071.4	5113.6	4942.4	4780.1	4631.1	4591.1	4568.9
40°	4938.0	4920.2	4926.8	5089.1	5278.1	5304.8	5135.8	5020.2	4897.9	4873.5	4873.5
42.5°	5220.3	5200.3	5222.5	5282.6	5427.1	5407.1	5313.7	5229.2	5178.1	5151.4	5178.1
45°	5391.5	5387.1	5427.1	5471.5	5573.8	5507.1	5433.7	5447.1	5398.2	5353.7	5351.5
47.5°	5578.3	5549.4	5598.3	5665.0	5587.2	5556.0	5551.6	5580.5	5564.9	5487.1	5462.7
50°	5669.4	5658.3	5736.1	5813.9	5771.7	5700.5	5716.1	5762.8	5562.7	5458.2	5398.2
52.5°	5914.0	5916.2	6065.2	6107.4	6089.6	5985.1	6018.5	5891.7	5656.1	5509.3	5516.0
55°	6298.6	6283.0	6449.8	6574.3	6594.3	6460.9	6300.8	6123.0	5827.3	5678.3	5633.8
57°	6087.4	6123.0	6307.5	6676.6	6863.3	6705.5	6356.4	6031.8	5638.3	5458.2	5378.2
57.5°	5805.0	5862.8	6183.0	6554.3	6749.9	6736.6	6287.5	5862.8	5511.6	5231.4	5238.1
60°	4253.2	4264.3	4553.3	5142.5	5753.9	5767.2	5220.3	4657.8	4266.5	3961.9	4004.2
62.5°	2243.3	2294.4	2410.1	2883.6	3412.8	3541.7	3210.4	2921.4	2583.5	2352.3	2374.5
65°	1187.2	1180.6	1236.2	1369.6	1629.7	1696.4	1651.9	1422.9	1305.1	1267.3	1269.5
67.5°	964.9	976.0	969.4	976.0	993.8	1022.7	1016.0	1024.9	1031.6	1042.7	1040.5
70°	818.2	818.2	822.6	824.8	824.8	838.2	853.7	882.7	884.9	896.0	900.4
72.5°	644.8	640.3	647.0	662.5	664.8	675.9	698.1	715.9	722.6	722.6	709.2
75°	438.0	442.4	451.3	464.7	478.0	498.0	515.8	526.9	531.4	524.7	518.0
77.5°	246.8	251.2	257.9	277.9	293.5	311.3	331.3	342.4	353.5	355.7	342.4
80°	146.7	146.7	157.9	173.4	191.2	209.0	226.8	240.1	244.6	244.6	237.9
82.5°	88.9	91.2	100.0	115.6	131.2	142.3	157.9	169.0	177.9	175.6	171.2
85°	46.7	46.7	55.6	68.9	80.0	91.2	91.2	84.5	80.0	68.9	64.5
87.5°	15.6	13.3	17.8	17.8	15.6	17.8	17.8	20.0	20.0	20.0	20.0
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)