

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: P529444

Luminaire Tested: **GALN-SA4C-760-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529444
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-760-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5700K, 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: 24548 lumens
Efficiency: N/A
Efficacy: 115.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

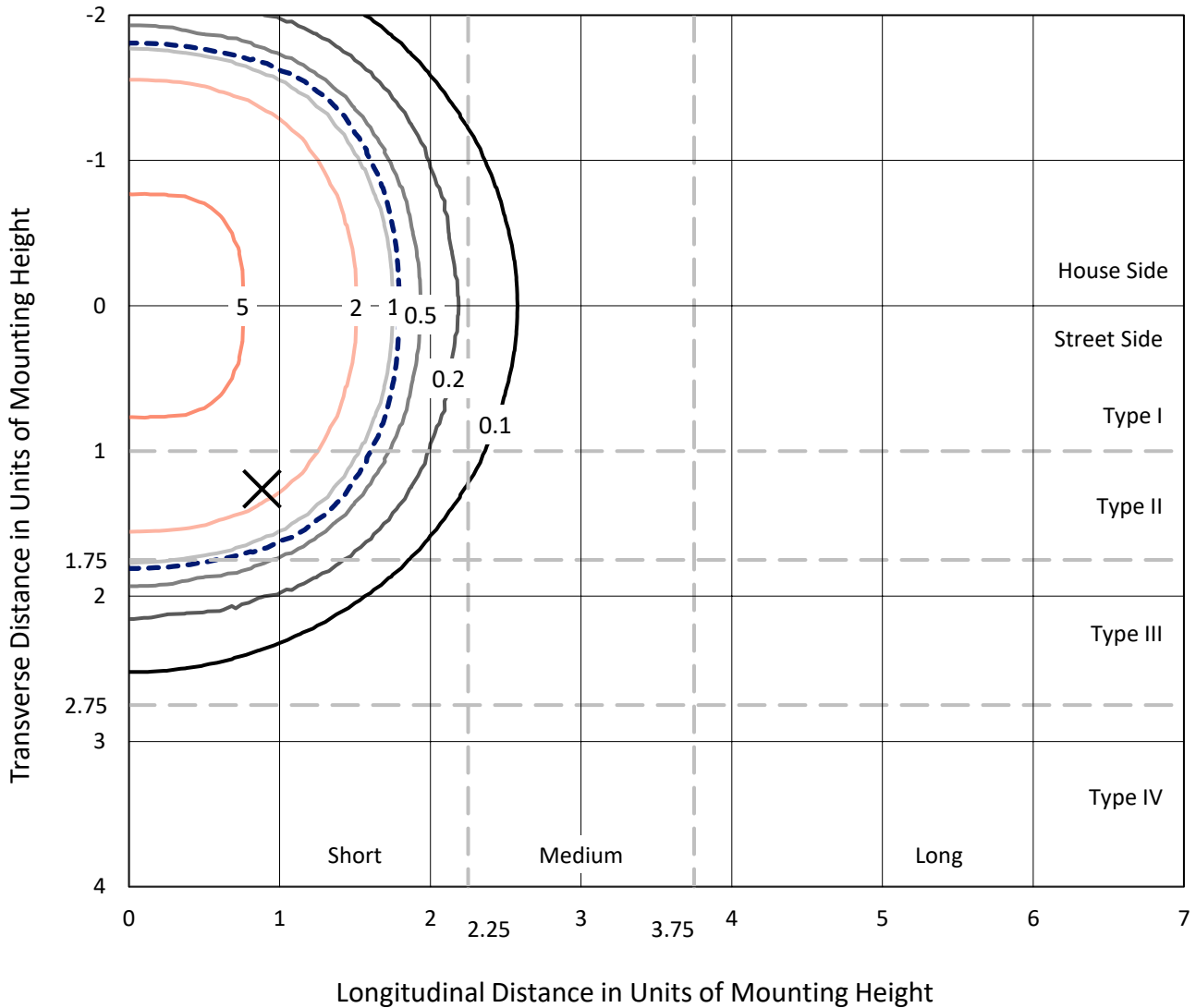
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

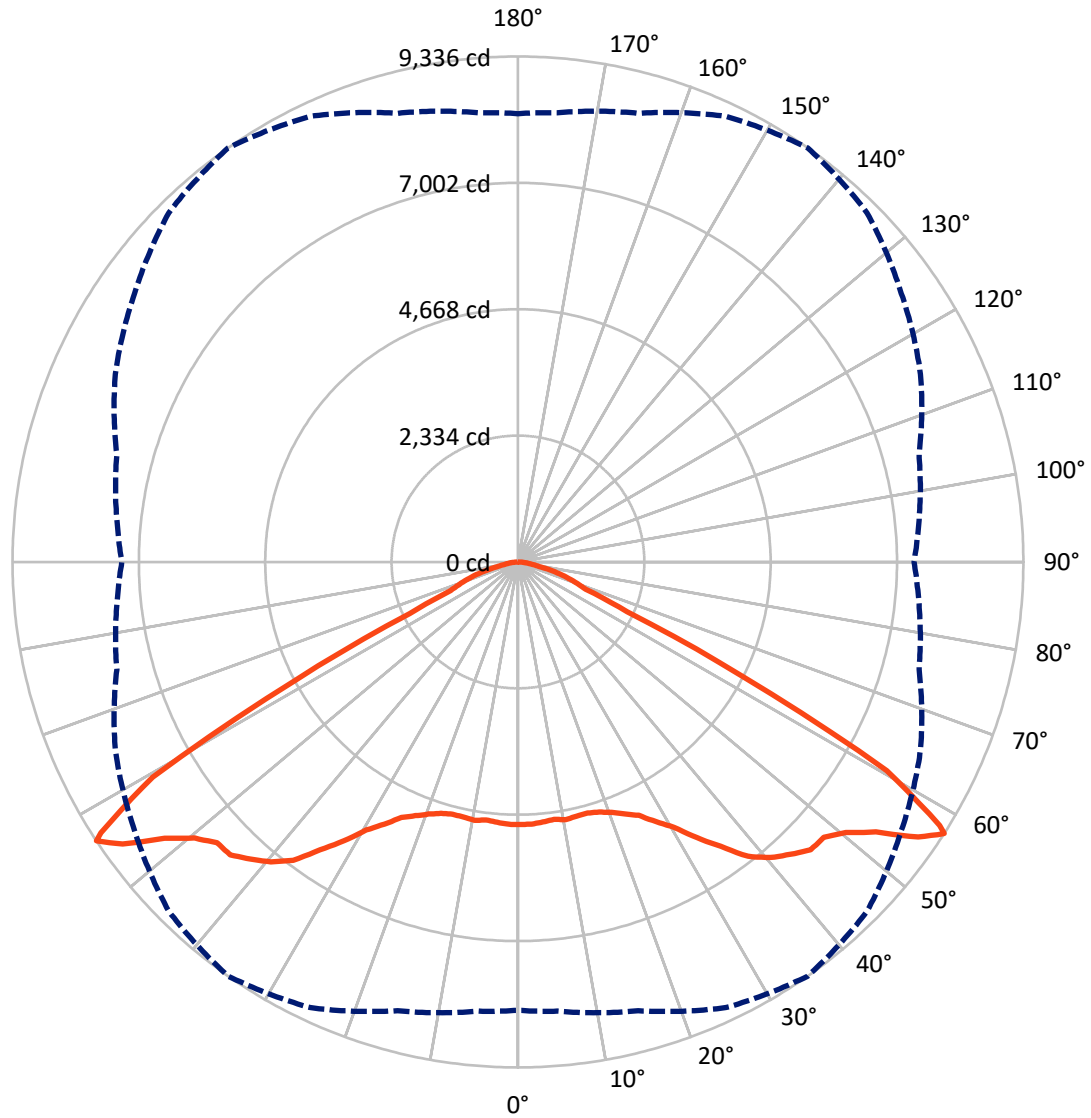
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 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	12274.0	0.0	12274.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12274.0	0.0	12274.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	24548.0	0.0	24548.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	459.6	1.9
10°-20°	1361.2	5.5
20°-30°	2377.4	9.7
30°-40°	3895.4	15.9
40°-50°	5711.6	23.3
50°-60°	7194.2	29.3
60°-70°	2705.7	11.0
70°-80°	719.4	2.9
80°-90°	123.4	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°	24548.0	100.0
0°-180°	24548.0	100.0

Coefficient of Utilization



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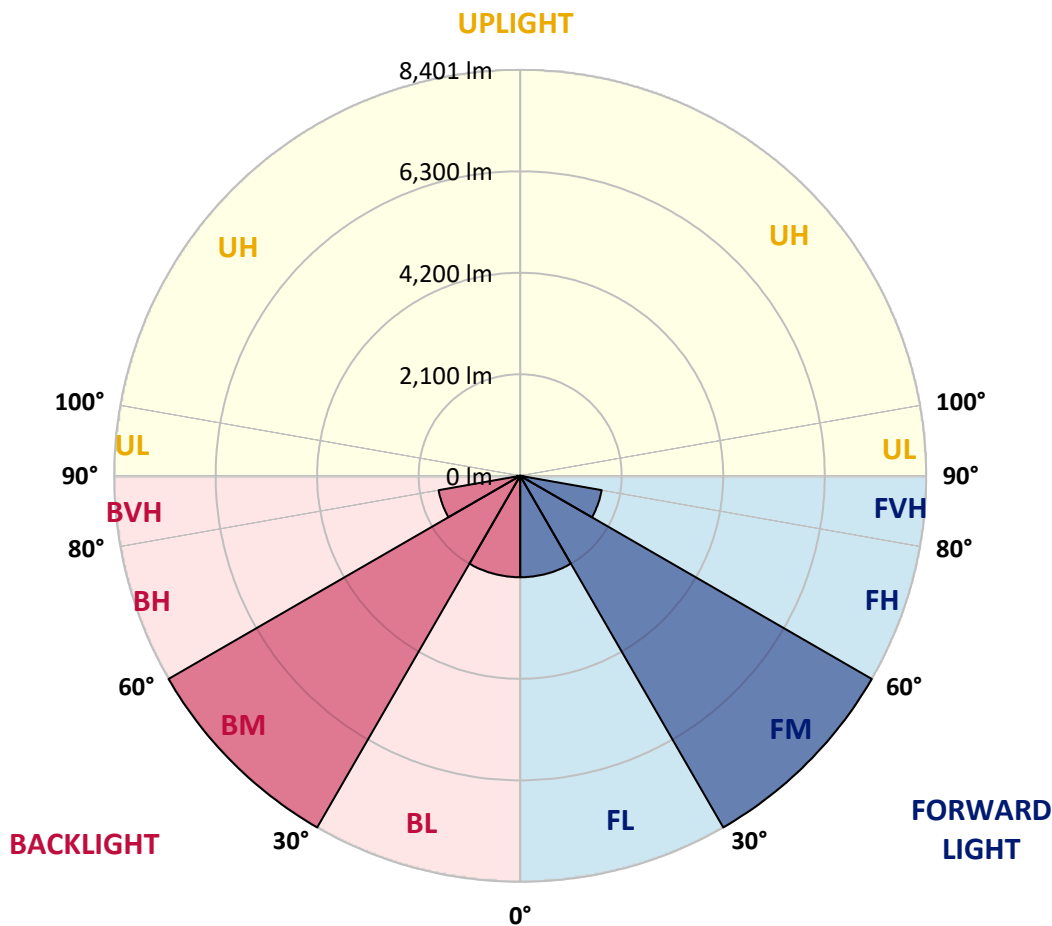
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2099.1	8.6			
FM (30°-60°)	8400.6	34.2			
FH (60°-80°)	1712.6	7.0			G1/1800
FVH (80°-90°)	61.7	0.3			G1/100
BL (0°-30°)	2099.1	8.6	B3/2500		
BM (30°-60°)	8400.6	34.2	B4/8500		
BH (60°-80°)	1712.6	7.0	B3/2500		G1/1800
BVH (80°-90°)	61.7	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°	4848.0	4848.0	4848.0	4848.0	4848.0	4848.0	4848.0	4848.0	4848.0	4848.0	4848.0
2.5°	4823.9	4872.2	4851.1	4839.0	4848.0	4832.9	4808.7	4836.0	4829.9	4805.7	4796.6
5°	4811.8	4848.0	4823.9	4848.0	4823.9	4866.2	4854.1	4808.7	4863.2	4811.8	4829.9
7.5°	4802.7	4814.8	4820.8	4808.7	4799.7	4851.1	4823.9	4802.7	4772.4	4763.4	4778.5
10°	4781.5	4811.8	4766.4	4826.9	4839.0	4802.7	4802.7	4763.4	4739.2	4724.1	4775.5
12.5°	4836.0	4784.5	4778.5	4808.7	4817.8	4832.9	4790.6	4769.4	4724.1	4730.1	4721.0
15°	4772.4	4793.6	4796.6	4802.7	4811.8	4848.0	4808.7	4763.4	4745.2	4681.7	4687.8
17.5°	4796.6	4775.5	4796.6	4866.2	4854.1	4881.3	4839.0	4769.4	4727.1	4690.8	4739.2
20°	4839.0	4829.9	4839.0	4923.7	4938.8	4963.0	4926.7	4863.2	4781.5	4739.2	4763.4
22.5°	4884.3	4878.3	4884.3	4966.0	5053.7	5083.9	5047.7	4899.5	4857.1	4778.5	4751.3
25°	4966.0	4972.0	5035.6	5126.3	5183.8	5241.2	5174.7	5068.8	4932.7	4884.3	4826.9
27.5°	5147.5	5162.6	5198.9	5331.9	5431.8	5483.2	5389.4	5244.2	5159.6	5059.8	5044.6
30°	5371.3	5371.3	5434.8	5549.7	5685.8	5764.4	5649.5	5477.1	5374.3	5319.8	5286.6
32.5°	5667.7	5634.4	5658.6	5861.2	6072.9	6139.5	5985.2	5773.5	5610.2	5537.6	5513.4
35°	5921.7	5942.9	5997.3	6215.1	6451.0	6605.2	6363.3	6088.0	5921.7	5855.2	5843.1
37.5°	6251.4	6287.6	6314.9	6614.3	6898.6	6956.0	6723.2	6502.4	6299.7	6245.3	6215.1
40°	6717.1	6692.9	6702.0	6922.8	7179.8	7216.1	6986.3	6829.0	6662.7	6629.4	6629.4
42.5°	7101.2	7074.0	7104.2	7185.9	7382.5	7355.2	7228.2	7113.3	7043.7	7007.4	7043.7
45°	7334.1	7328.0	7382.5	7443.0	7582.1	7491.3	7391.5	7409.7	7343.1	7282.7	7279.6
47.5°	7588.1	7548.8	7615.3	7706.1	7600.2	7557.9	7551.8	7591.1	7570.0	7464.1	7430.9
50°	7712.1	7697.0	7802.8	7908.7	7851.2	7754.5	7775.6	7839.1	7566.9	7424.8	7343.1
52.5°	8044.8	8047.8	8250.5	8307.9	8283.7	8141.6	8186.9	8014.6	7694.0	7494.4	7503.4
55°	8568.0	8546.8	8773.7	8943.0	8970.3	8788.8	8571.0	8329.1	7926.8	7724.2	7663.7
57°	8280.7	8329.1	8580.1	9082.2	9336.2	9121.5	8646.6	8205.1	7669.8	7424.8	7315.9
57.5°	7896.6	7975.2	8410.7	8915.8	9182.0	9163.8	8552.9	7975.2	7497.4	7116.3	7125.4
60°	5785.6	5800.7	6193.9	6995.3	7827.0	7845.2	7101.2	6336.0	5803.7	5389.4	5446.9
62.5°	3051.6	3121.1	3278.4	3922.6	4642.4	4817.8	4367.2	3974.0	3514.3	3199.8	3230.0
65°	1615.0	1605.9	1681.5	1863.0	2216.9	2307.6	2247.1	1935.6	1775.3	1723.9	1726.9
67.5°	1312.6	1327.7	1318.6	1327.7	1351.9	1391.2	1382.1	1394.2	1403.3	1418.4	1415.4
70°	1113.0	1113.0	1119.0	1122.0	1122.0	1140.2	1161.4	1200.7	1203.7	1218.8	1224.9
72.5°	877.1	871.0	880.1	901.3	904.3	919.4	949.6	973.8	982.9	982.9	964.8
75°	595.8	601.8	613.9	632.1	650.2	677.5	701.7	716.8	722.8	713.7	704.7
77.5°	335.7	341.8	350.8	378.0	399.2	423.4	450.6	465.8	480.9	483.9	465.8
80°	199.6	199.6	214.7	235.9	260.1	284.3	308.5	326.6	332.7	332.7	323.6
82.5°	121.0	124.0	136.1	157.3	178.4	193.6	214.7	229.9	241.9	238.9	232.9
85°	63.5	63.5	75.6	93.8	108.9	124.0	124.0	114.9	108.9	93.8	87.7
87.5°	21.2	18.1	24.2	24.2	21.2	24.2	24.2	27.2	27.2	27.2	27.2
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)