

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: P533059

Luminaire Tested: **GALN-SA8C-727-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533059
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-727-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32616 lumens
Efficiency: N/A
Efficacy: 76.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

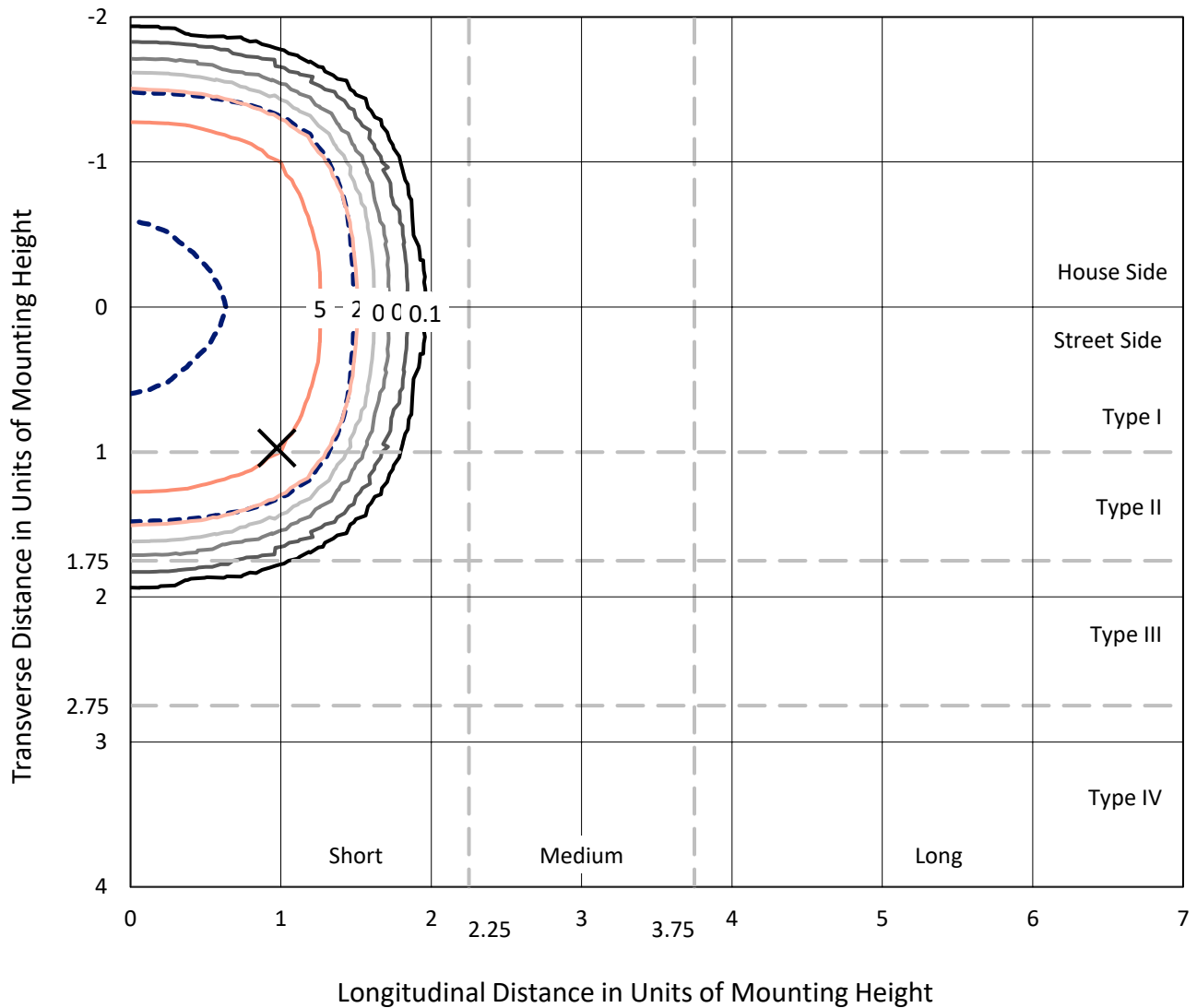
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

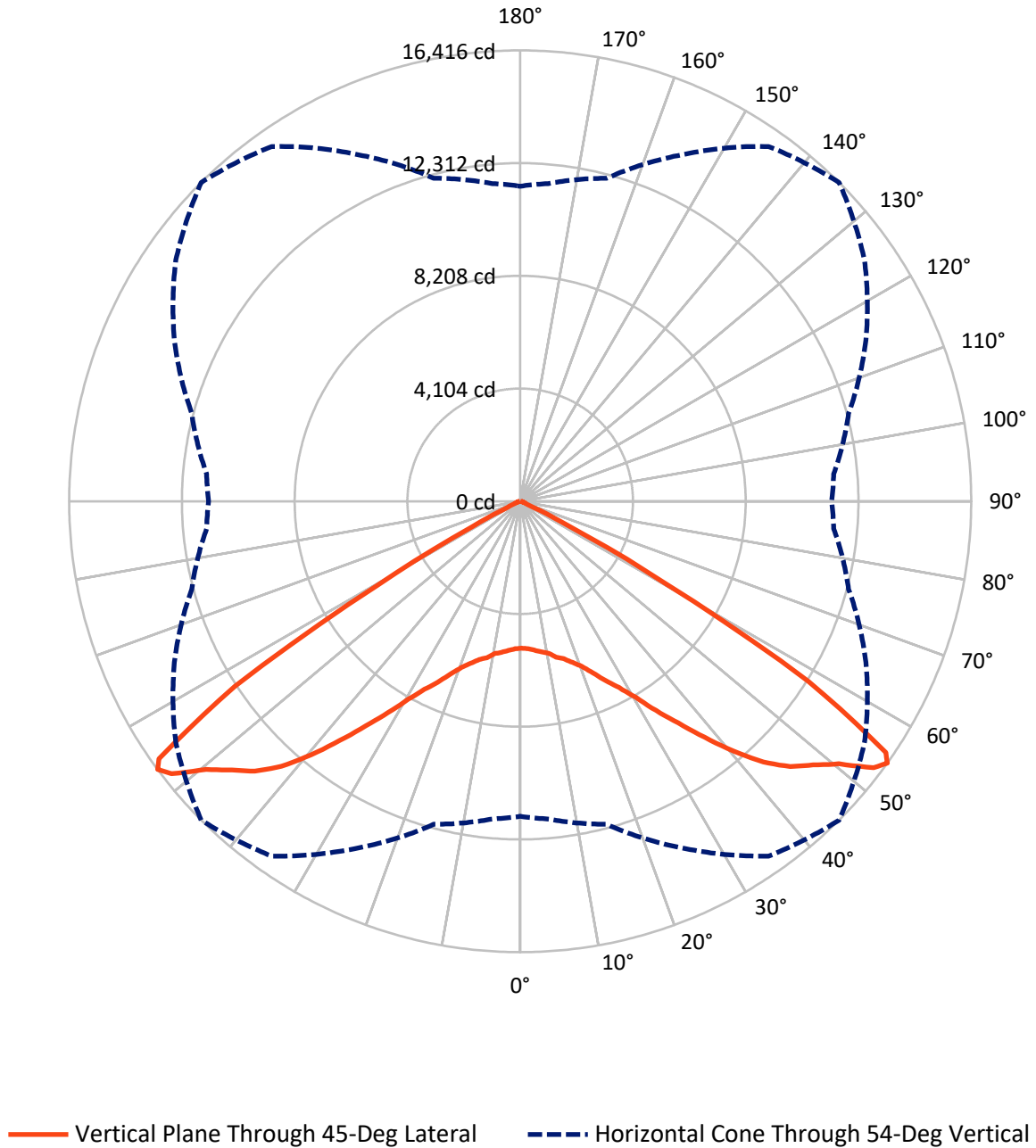
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16308.0	0.0	16308.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16308.0	0.0	16308.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	32616.0	0.0	32616.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	523.4	1.6
10°-20°	1695.1	5.2
20°-30°	3322.3	10.2
30°-40°	5974.2	18.3
40°-50°	10226.7	31.4
50°-60°	9895.3	30.3
60°-70°	847.1	2.6
70°-80°	100.4	0.3
80°-90°	31.5	0.1
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°	32616.0	100.0
0°-180°	32616.0	100.0

Coefficient of Utilization



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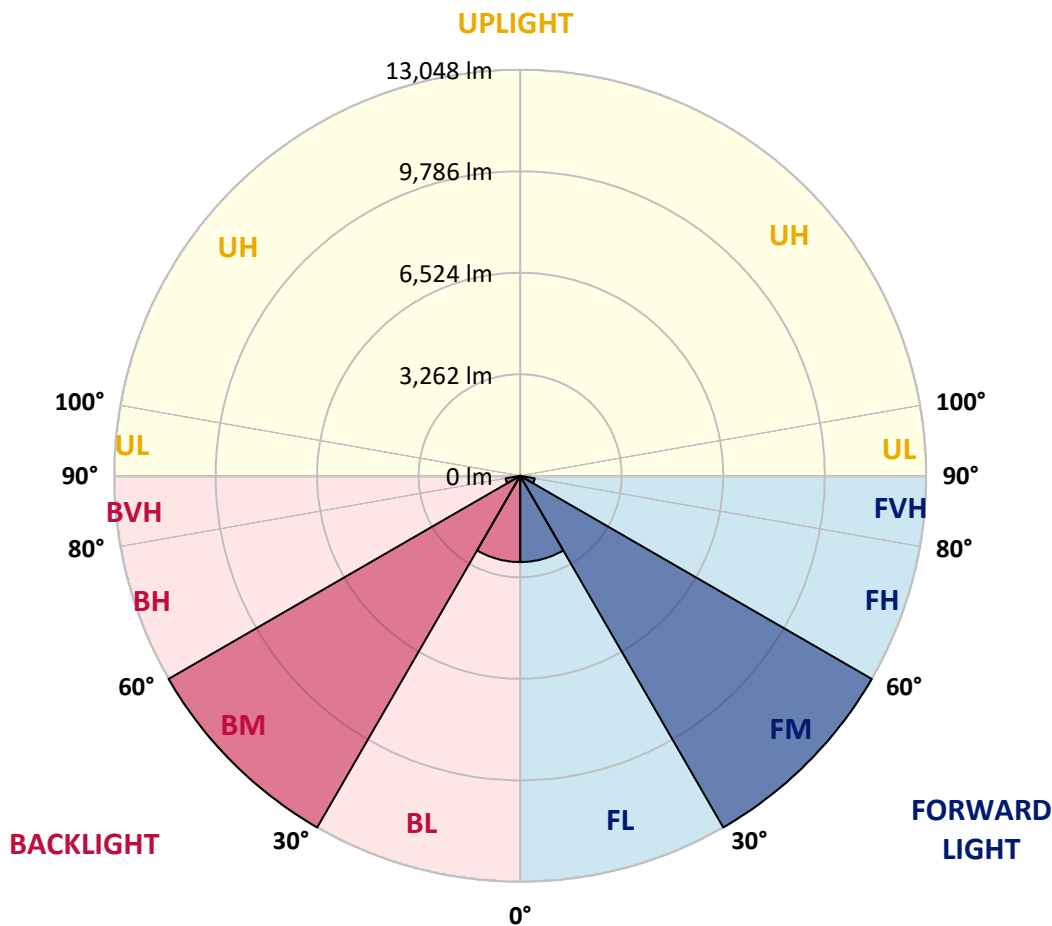
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2770.4	8.5			
FM (30°-60°)	13048.1	40.0			
FH (60°-80°)	473.7	1.5			G0/660
FVH (80°-90°)	15.7	0.0			G1/100
BL (0°-30°)	2770.4	8.5	B4/5000		
BM (30°-60°)	13048.1	40.0	B5		
BH (60°-80°)	473.7	1.5	B1/500		G0/660
BVH (80°-90°)	15.7	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5348.0	5348.0	5348.0	5348.0	5348.0	5348.0	5348.0	5348.0	5348.0	5348.0	5348.0
2.5°	5373.8	5404.8	5384.2	5399.7	5399.7	5373.8	5389.3	5327.3	5368.7	5337.7	5342.8
5°	5456.5	5451.4	5451.4	5456.5	5435.8	5446.2	5425.5	5404.8	5389.3	5368.7	5430.7
7.5°	5559.9	5559.9	5523.7	5534.0	5523.7	5539.2	5497.9	5456.5	5441.0	5425.5	5415.2
10°	5658.0	5647.7	5632.2	5678.7	5642.5	5621.9	5601.2	5575.4	5518.5	5497.9	5477.2
12.5°	5802.7	5797.6	5776.9	5823.4	5802.7	5823.4	5745.9	5678.7	5668.4	5601.2	5637.4
15°	5973.2	6019.7	5983.6	5983.6	5973.2	5947.4	5916.4	5885.4	5792.4	5766.5	5771.7
17.5°	6195.4	6179.9	6185.1	6185.1	6236.8	6169.6	6107.6	6030.1	5983.6	5968.1	5916.4
20°	6407.3	6427.9	6422.8	6458.9	6489.9	6417.6	6350.4	6340.1	6210.9	6231.6	6159.3
22.5°	6779.3	6763.8	6789.6	6815.5	6794.8	6784.5	6722.5	6645.0	6531.3	6479.6	6469.3
25°	7172.0	7146.2	7099.7	7161.7	7192.7	7239.2	7120.3	7079.0	6903.3	6825.8	6831.0
27.5°	7507.9	7544.0	7595.7	7621.6	7699.1	7683.6	7600.9	7466.5	7332.2	7244.4	7187.5
30°	7967.8	7988.4	8076.3	8112.4	8246.8	8283.0	8153.8	7998.8	7761.1	7647.4	7580.2
32.5°	8391.5	8536.1	8531.0	8711.8	8928.8	9078.7	8846.2	8608.5	8370.8	8236.4	8117.6
35°	9078.7	9052.9	9202.7	9393.9	9745.3	9915.8	9662.6	9388.7	9027.0	8810.0	8717.0
37.5°	9719.4	9729.8	9931.3	10236.1	10639.2	10902.7	10680.5	10231.0	9858.9	9579.9	9450.7
40°	10649.5	10670.2	10876.9	11223.1	11677.8	11962.0	11703.6	11248.9	10752.9	10535.8	10535.8
42.5°	11739.8	11827.6	11962.0	12261.7	12669.9	12985.1	12752.5	12396.0	11894.8	11615.8	11657.1
45°	12861.1	12902.4	12990.2	13434.6	13625.8	13780.8	13563.8	13398.4	13062.6	12721.5	12664.7
47.5°	13910.0	13925.5	14183.8	14323.4	14473.2	14344.0	14483.5	14266.5	13889.3	13558.6	13491.4
50°	14375.0	14349.2	14716.1	15139.8	15253.4	15026.1	14907.2	14762.6	14189.0	13791.1	13615.5
52.5°	13021.2	13171.1	13853.1	15031.3	15920.0	16111.2	15418.8	14752.2	13682.6	12907.6	12788.7
54°	11471.1	11610.6	12173.8	13920.3	15770.2	16416.1	15300.0	13884.2	12375.3	11455.6	11336.7
55°	9936.4	9781.4	10804.5	12587.2	15067.4	16147.4	14829.7	12762.9	11037.0	10194.8	10029.5
57.5°	5379.0	5404.8	6267.8	7952.3	10587.5	12380.5	10933.7	8634.3	6521.0	5575.4	5492.7
60°	1705.2	1746.5	2123.7	3214.0	5058.6	6040.4	5177.5	3467.2	2397.6	1922.2	1844.7
62.5°	532.2	552.9	604.6	899.1	1384.8	1979.0	1550.1	930.1	692.4	635.6	645.9
65°	325.5	325.5	330.7	351.4	413.4	480.5	465.0	408.2	392.7	382.4	377.2
67.5°	211.9	206.7	217.0	232.5	242.9	248.0	263.5	279.0	273.9	263.5	263.5
70°	129.2	124.0	134.3	155.0	160.2	170.5	186.0	206.7	201.5	191.2	196.4
72.5°	72.3	72.3	77.5	93.0	108.5	118.8	134.3	149.8	155.0	149.8	149.8
75°	25.8	31.0	41.3	56.8	67.2	82.7	98.2	113.7	129.2	118.8	113.7
77.5°	10.3	10.3	20.7	36.2	51.7	67.2	93.0	108.5	118.8	108.5	98.2
80°	5.2	5.2	15.5	31.0	46.5	62.0	77.5	93.0	98.2	87.8	77.5
82.5°	5.2	5.2	15.5	31.0	46.5	56.8	82.7	93.0	103.3	93.0	77.5
85°	0.0	5.2	15.5	31.0	41.3	46.5	46.5	31.0	25.8	15.5	15.5
87.5°	0.0	0.0	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)