

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: P533343

Luminaire Tested: **GALN-SA8D-735-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533343
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-3)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-735-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34923 lumens
Efficiency: N/A
Efficacy: 70.8 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

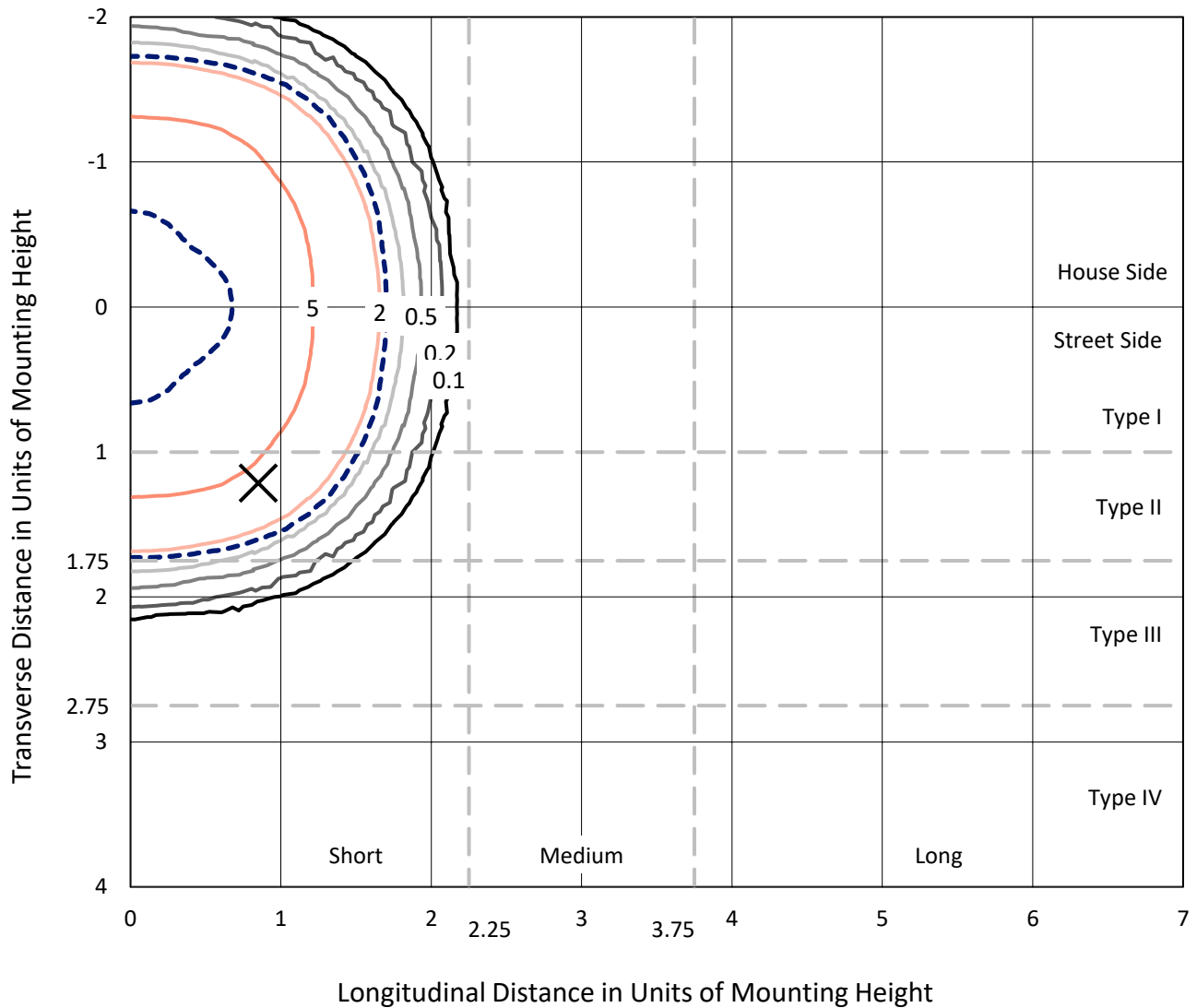
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

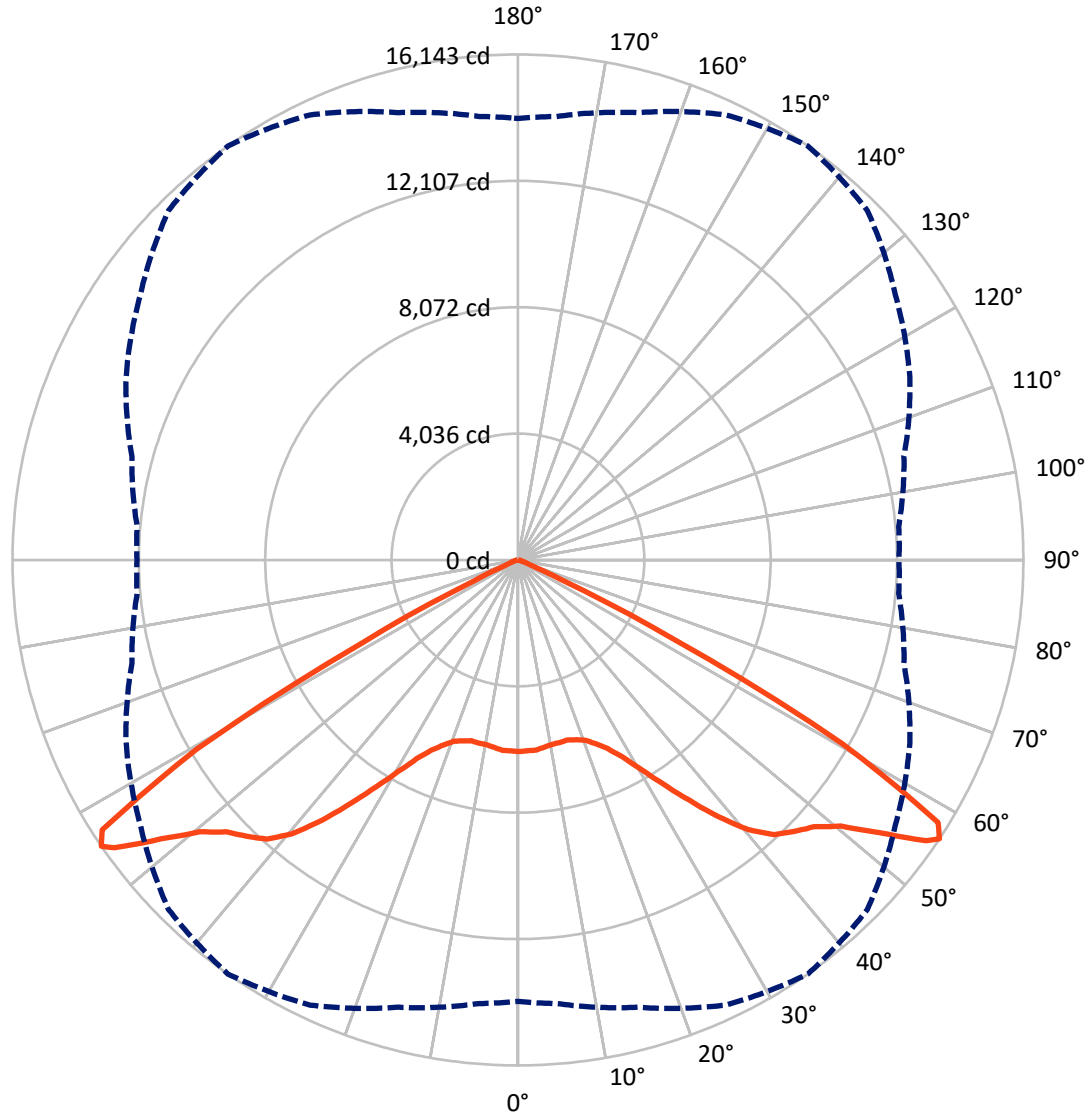
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17461.5	0.0	17461.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17461.5	0.0	17461.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	34923.0	0.0	34923.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	575.1	1.6
10°-20°	1679.1	4.8
20°-30°	3040.5	8.7
30°-40°	5638.3	16.1
40°-50°	9254.8	26.5
50°-60°	11923.0	34.1
60°-70°	2627.7	7.5
70°-80°	152.5	0.4
80°-90°	32.1	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°	34923.0	100.0
0°-180°	34923.0	100.0

Coefficient of Utilization



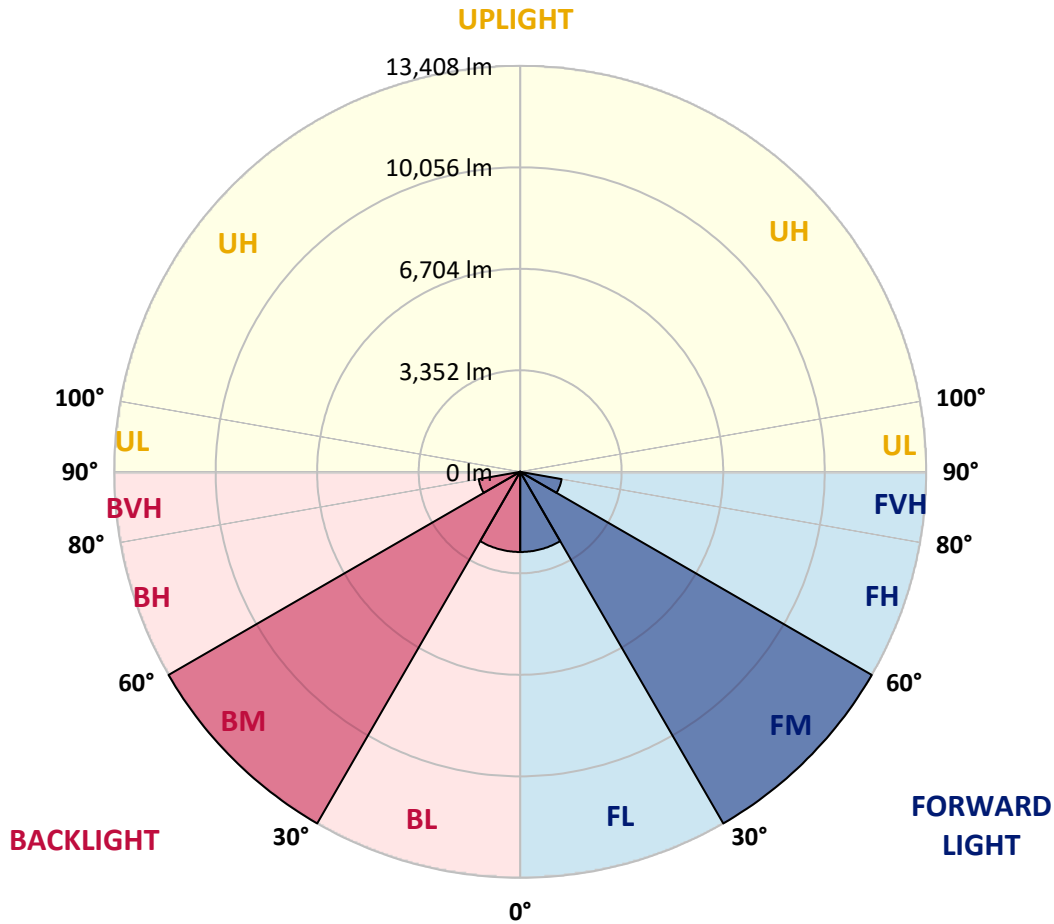
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2647.4	7.6			
FM (30°-60°)	13408.0	38.4			
FH (60°-80°)	1390.1	4.0			G1/1800
FVH (80°-90°)	16.0	0.0			G1/100
BL (0°-30°)	2647.4	7.6	B4/5000		
BM (30°-60°)	13408.0	38.4	B5		
BH (60°-80°)	1390.1	4.0	B3/2500		G1/1800
BVH (80°-90°)	16.0	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°	6119.3	6119.3	6119.3	6119.3	6119.3	6119.3	6119.3	6119.3	6119.3	6119.3	6119.3
2.5°	6131.9	6131.9	6138.2	6144.6	6100.3	6081.3	6087.6	6075.0	6068.6	6087.6	6087.6
5°	6112.9	6112.9	6093.9	6100.3	6100.3	6043.3	6043.3	6056.0	6056.0	6018.0	6005.4
7.5°	6062.3	6049.7	6024.3	6056.0	6037.0	6037.0	5992.7	5961.1	5948.4	5973.7	5948.4
10°	5954.7	5961.1	5986.4	5999.0	5986.4	6024.3	5948.4	5904.1	5859.8	5840.8	5840.8
12.5°	5904.1	5942.1	5904.1	5935.7	5980.0	5948.4	5904.1	5872.5	5809.2	5783.9	5783.9
15°	5897.8	5923.1	5935.7	5980.0	5961.1	5973.7	5885.1	5847.2	5752.2	5707.9	5689.0
17.5°	5891.4	5923.1	5942.1	6024.3	6037.0	6043.3	5973.7	5859.8	5777.5	5733.2	5689.0
20°	5961.1	5973.7	6011.7	6093.9	6144.6	6233.2	6106.6	5986.4	5809.2	5758.6	5739.6
22.5°	6049.7	6112.9	6150.9	6239.5	6372.4	6448.3	6283.8	6131.9	5948.4	5885.1	5809.2
25°	6334.4	6321.8	6385.0	6568.6	6676.1	6733.1	6600.2	6378.7	6138.2	6062.3	6075.0
27.5°	6688.8	6701.4	6758.4	6960.9	7119.1	7207.7	7049.5	6758.4	6524.3	6397.7	6385.0
30°	7150.7	7138.1	7201.4	7473.5	7758.2	7891.1	7612.7	7271.0	7043.2	6878.6	6916.6
32.5°	7638.0	7644.3	7821.5	8068.3	8530.3	8789.7	8340.4	7922.8	7581.0	7467.1	7410.2
35°	8359.4	8391.0	8530.3	8909.9	9422.5	9757.9	9264.3	8764.4	8372.1	8163.2	8188.5
37.5°	9251.7	9220.0	9454.2	9865.5	10403.4	10650.2	10232.5	9663.0	9264.3	9125.1	9213.7
40°	10200.9	10232.5	10352.8	10726.1	11327.3	11491.8	10871.7	10561.6	10213.5	10143.9	10251.5
42.5°	11150.1	11131.1	11219.7	11555.1	11991.7	11877.8	11510.8	11327.3	11080.5	10941.3	11086.8
45°	11846.2	11814.5	11979.1	12206.9	12365.1	12149.9	11985.4	11922.1	11795.6	11643.7	11776.6
47.5°	12523.3	12498.0	12656.2	12719.5	12732.1	12447.3	12479.0	12592.9	12276.5	11960.1	12112.0
50°	13099.1	13054.8	13251.0	13390.2	13358.6	12903.0	13016.9	12903.0	12409.4	12036.0	11979.1
52.5°	14061.0	14080.0	14288.8	14541.9	14466.0	14086.3	13921.8	13402.9	12770.1	12434.7	12238.5
55°	14668.5	14573.6	14934.3	15738.0	15826.5	15434.2	14706.5	13940.8	12991.6	12580.2	12529.6
56°	14099.0	14219.2	14788.7	15687.3	16143.0	15782.3	14725.5	13807.9	12763.8	12206.9	12168.9
57.5°	12649.8	12586.6	13358.6	14586.2	15826.5	15674.7	14206.6	12858.7	11643.7	11017.2	10941.3
60°	7872.1	8055.7	8732.8	10251.5	11909.5	11985.4	10529.9	9371.9	7954.4	7397.5	7530.4
62.5°	3081.8	2923.6	3347.6	4480.3	5619.3	5872.5	5321.9	4423.3	3632.3	3081.8	3043.8
65°	715.1	696.1	784.7	1082.1	1512.4	1752.9	1664.3	1196.0	879.6	835.3	772.0
67.5°	405.0	405.0	386.0	386.0	424.0	449.3	430.3	424.0	443.0	462.0	455.6
70°	284.8	278.4	265.8	272.1	259.5	259.5	278.4	310.1	335.4	335.4	341.7
72.5°	170.9	170.9	170.9	189.8	189.8	189.8	208.8	234.1	240.5	234.1	227.8
75°	75.9	75.9	88.6	107.6	120.2	126.6	145.5	158.2	170.9	158.2	145.5
77.5°	19.0	19.0	31.6	44.3	57.0	69.6	94.9	113.9	120.2	113.9	94.9
80°	6.3	6.3	12.7	31.6	57.0	69.6	94.9	101.2	107.6	94.9	75.9
82.5°	6.3	6.3	12.7	31.6	44.3	57.0	75.9	88.6	94.9	82.3	75.9
85°	0.0	6.3	12.7	25.3	38.0	50.6	50.6	38.0	31.6	19.0	25.3
87.5°	0.0	0.0	6.3	6.3	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)