

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: P459180

Luminaire Tested: **GALN-SA6D-735-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459180
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6D-735-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44819 lumens
Efficiency: N/A
Efficacy: 121.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

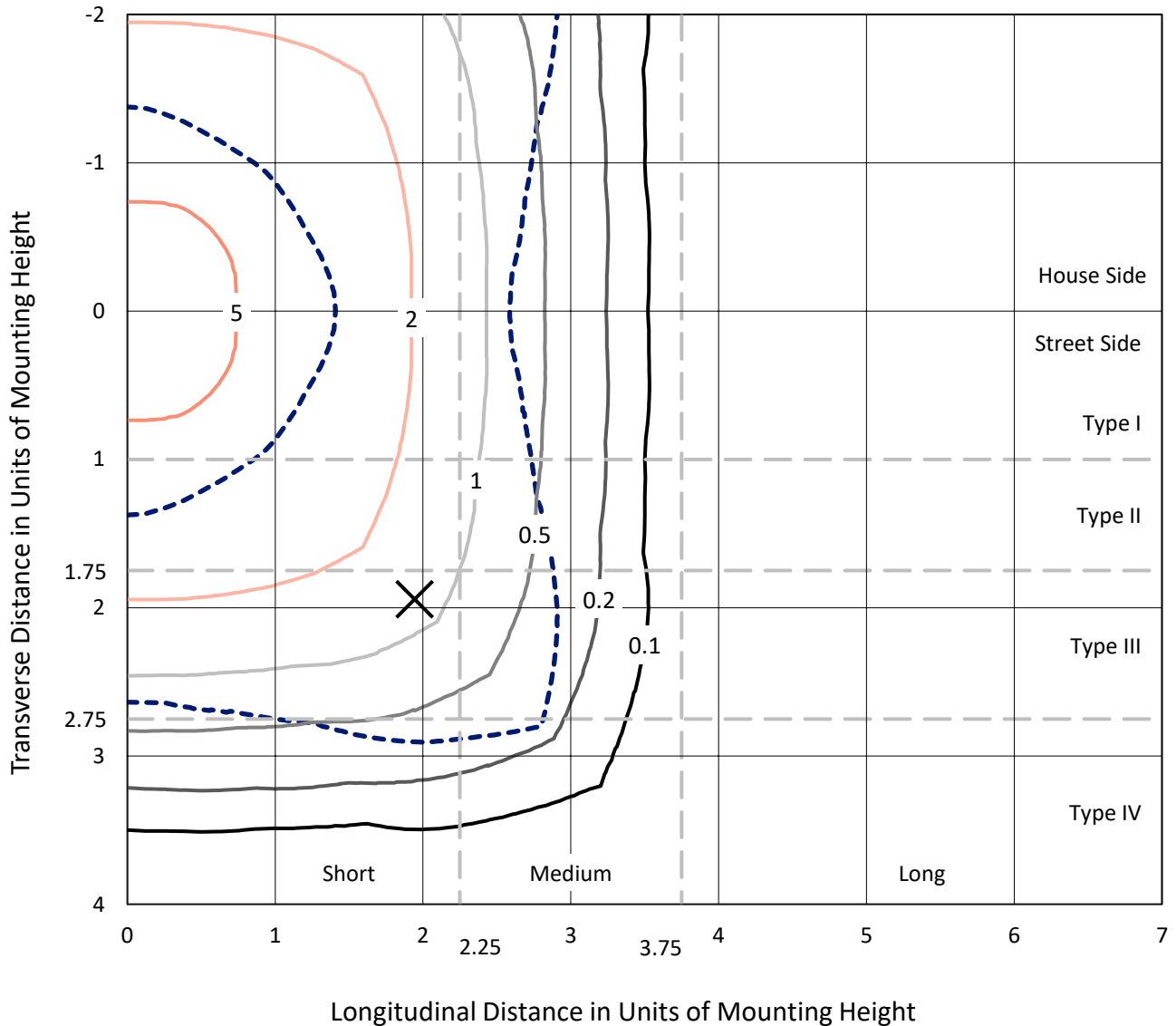
Input Watts (W): 368
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

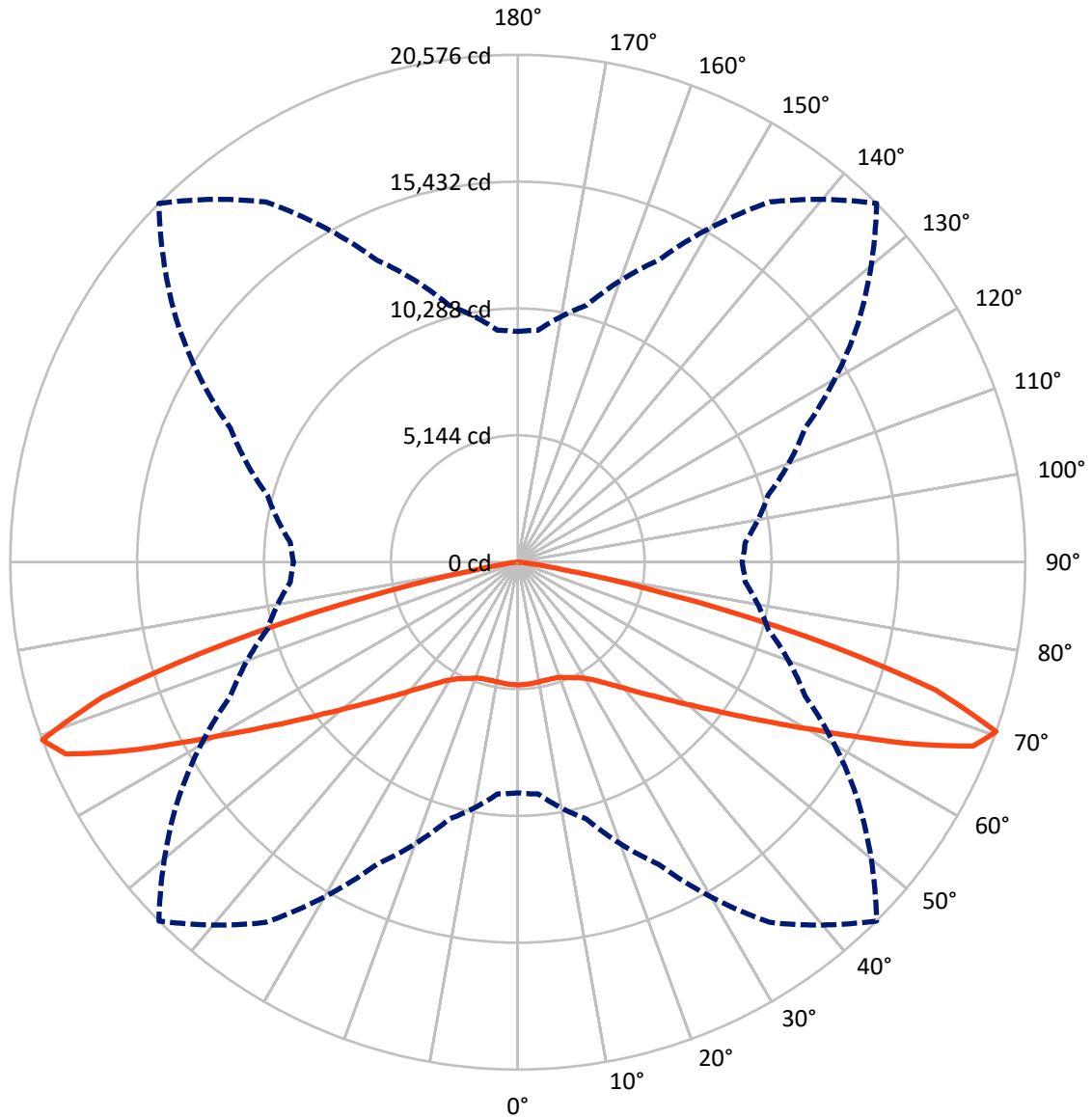
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	22409.5	0.0	22409.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	22409.5	0.0	22409.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	44819.0	0.0	44819.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	471.9	1.1
10°-20°	1384.9	3.1
20°-30°	2368.6	5.3
30°-40°	3759.5	8.4
40°-50°	6065.1	13.5
50°-60°	9868.1	22.0
60°-70°	14305.2	31.9
70°-80°	6345.3	14.2
80°-90°	250.3	0.6
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°	44819.0	100.0
0°-180°	44819.0	100.0



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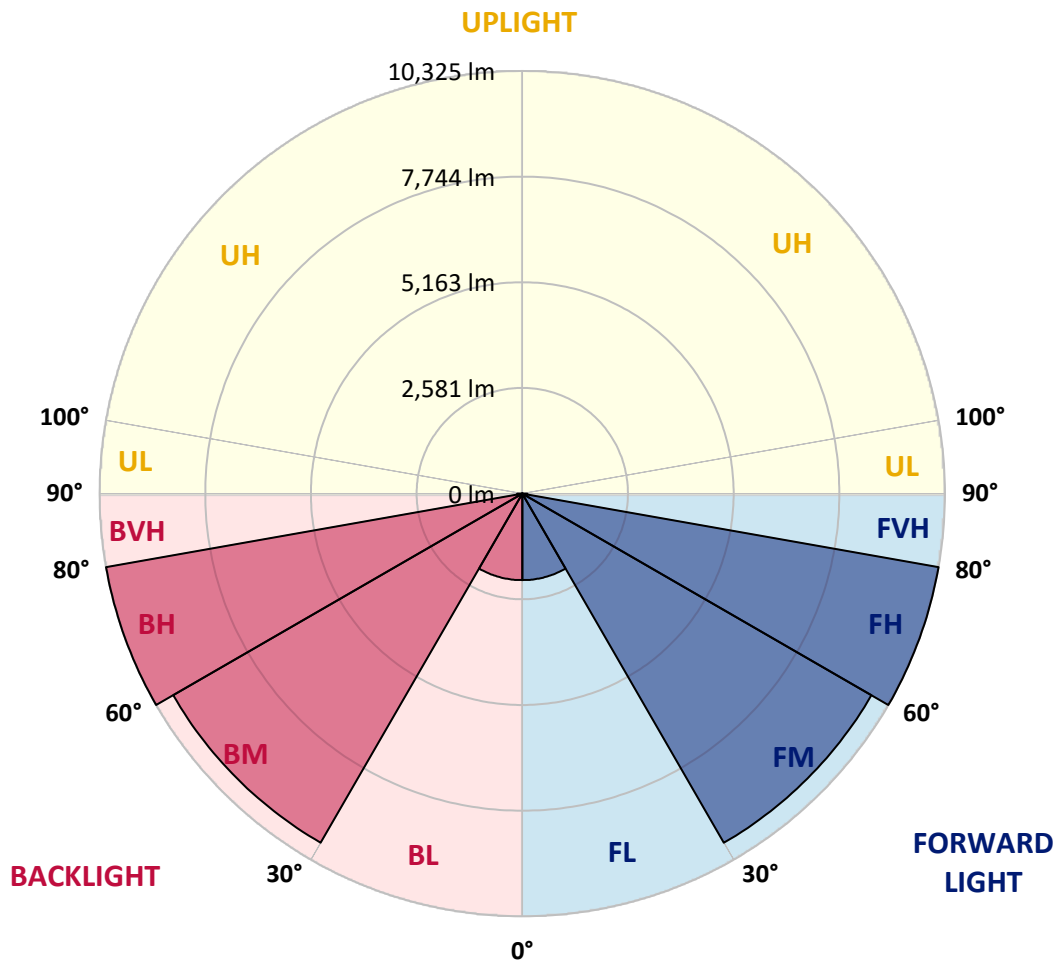
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2112.8	4.7			
FM (30°-60°)	9846.4	22.0			
FH (60°-80°)	10325.2	23.0			G4/12000
FVH (80°-90°)	125.1	0.3			G2/225
BL (0°-30°)	2112.8	4.7	B3/2500		
BM (30°-60°)	9846.4	22.0	B5		
BH (60°-80°)	10325.2	23.0	B5		G4/12000
BVH (80°-90°)	125.1	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4976.9	4976.9	4976.9	4976.9	4976.9	4976.9	4976.9	4976.9	4976.9	4976.9	4976.9
2.5°	4976.9	4981.7	4974.6	4969.9	4967.5	4967.5	4965.1	4967.5	4981.7	4984.0	4976.9
5°	4962.8	4967.5	4965.1	4960.4	4958.0	4958.0	4955.7	4953.3	4965.1	4969.9	4967.5
7.5°	4943.9	4946.2	4943.9	4941.5	4943.9	4941.5	4934.4	4929.7	4939.1	4939.1	4936.8
10°	4910.8	4915.5	4913.2	4915.5	4920.2	4920.2	4910.8	4901.4	4903.7	4899.0	4899.0
12.5°	4870.6	4877.7	4880.1	4889.5	4901.4	4915.5	4894.3	4873.0	4868.3	4865.9	4863.6
15°	4844.7	4851.7	4861.2	4870.6	4891.9	4922.6	4891.9	4858.8	4849.4	4839.9	4835.2
17.5°	4837.6	4847.0	4861.2	4875.4	4903.7	4934.4	4908.4	4875.4	4851.7	4837.6	4832.9
20°	4856.5	4863.6	4884.8	4910.8	4951.0	4981.7	4955.7	4920.2	4884.8	4863.6	4856.5
22.5°	4894.3	4906.1	4932.1	4979.3	5036.0	5080.9	5045.4	4986.4	4929.7	4901.4	4891.9
25°	4976.9	4986.4	5017.1	5080.9	5147.0	5189.5	5151.7	5083.2	5005.3	4967.5	4955.7
27.5°	5102.1	5116.3	5149.4	5225.0	5279.3	5302.9	5276.9	5229.7	5173.0	5132.8	5123.4
30°	5279.3	5295.8	5345.4	5425.7	5461.2	5475.3	5463.5	5432.8	5392.7	5350.2	5340.7
32.5°	5517.9	5527.3	5584.0	5659.6	5692.7	5697.4	5683.2	5669.0	5602.9	5532.0	5527.3
35°	5784.8	5801.3	5869.8	5959.6	5990.3	5992.6	5964.3	5943.0	5865.1	5808.4	5808.4
37.5°	6139.1	6146.2	6212.3	6313.9	6347.0	6337.5	6323.3	6304.4	6221.8	6148.5	6150.9
40°	6554.8	6569.0	6625.7	6743.8	6743.8	6732.0	6741.4	6727.3	6644.6	6573.7	6576.1
42.5°	7048.5	7055.6	7124.1	7249.3	7239.8	7216.2	7225.7	7206.8	7154.8	7074.5	7046.1
45°	7575.2	7603.6	7721.7	7842.2	7823.3	7747.7	7785.5	7780.7	7733.5	7613.0	7620.1
47.5°	8210.6	8257.9	8371.3	8515.4	8494.1	8376.0	8418.5	8446.9	8380.7	8248.4	8224.8
50°	8926.4	8957.1	9124.8	9259.4	9240.5	9115.3	9212.2	9216.9	9051.6	8865.0	8865.0
52.5°	9689.3	9720.0	9946.8	10157.0	10168.8	9986.9	10064.9	10060.2	9790.9	9545.2	9498.0
55°	10544.4	10558.6	10851.5	11160.9	11227.0	11049.9	11059.3	10964.9	10615.3	10329.5	10303.5
57.5°	11427.8	11479.8	11803.4	12205.0	12401.0	12292.4	12242.7	11990.0	11652.2	11323.9	11307.4
60°	12405.7	12408.1	12828.5	13303.3	13700.2	13773.4	13570.2	13232.5	12795.5	12360.9	12342.0
62.5°	13083.7	13185.2	13716.7	14519.8	15230.8	15641.8	15105.6	14397.0	13537.2	12835.6	12764.8
65°	13223.0	13291.5	14101.7	15462.3	16915.0	17800.8	16560.7	15053.6	13586.8	12651.4	12604.2
67.5°	12096.3	12169.5	13260.8	15348.9	18096.0	19912.5	17505.5	14737.1	12745.9	11588.4	11496.3
70°	9356.3	9438.9	10787.7	13511.2	17833.8	20576.2	16832.3	12854.5	10511.3	9261.8	9094.1
72.5°	4974.6	5279.3	6432.0	9273.6	14474.9	17715.7	13801.7	9379.9	6779.2	5541.5	5319.4
75°	1816.5	1854.2	2496.7	4112.4	8420.9	12148.3	8744.5	4473.8	2572.3	1986.5	1885.0
77.5°	751.1	748.8	822.0	1242.5	3058.9	6221.8	3413.2	1313.3	819.6	758.2	748.8
80°	444.1	444.1	489.0	517.3	805.5	1877.9	900.0	585.8	491.3	448.8	455.9
82.5°	198.4	210.2	309.4	326.0	389.7	514.9	434.6	373.2	321.2	222.0	200.8
85°	108.7	94.5	163.0	170.1	186.6	191.3	205.5	203.1	186.6	108.7	111.0
87.5°	21.3	26.0	47.2	35.4	40.2	35.4	47.2	66.1	68.5	37.8	30.7
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)