

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: P455584

Luminaire Tested: **GALN-SA6D-740-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455584
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-740-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 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: 48113 lumens
Efficiency: N/A
Efficacy: 130.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

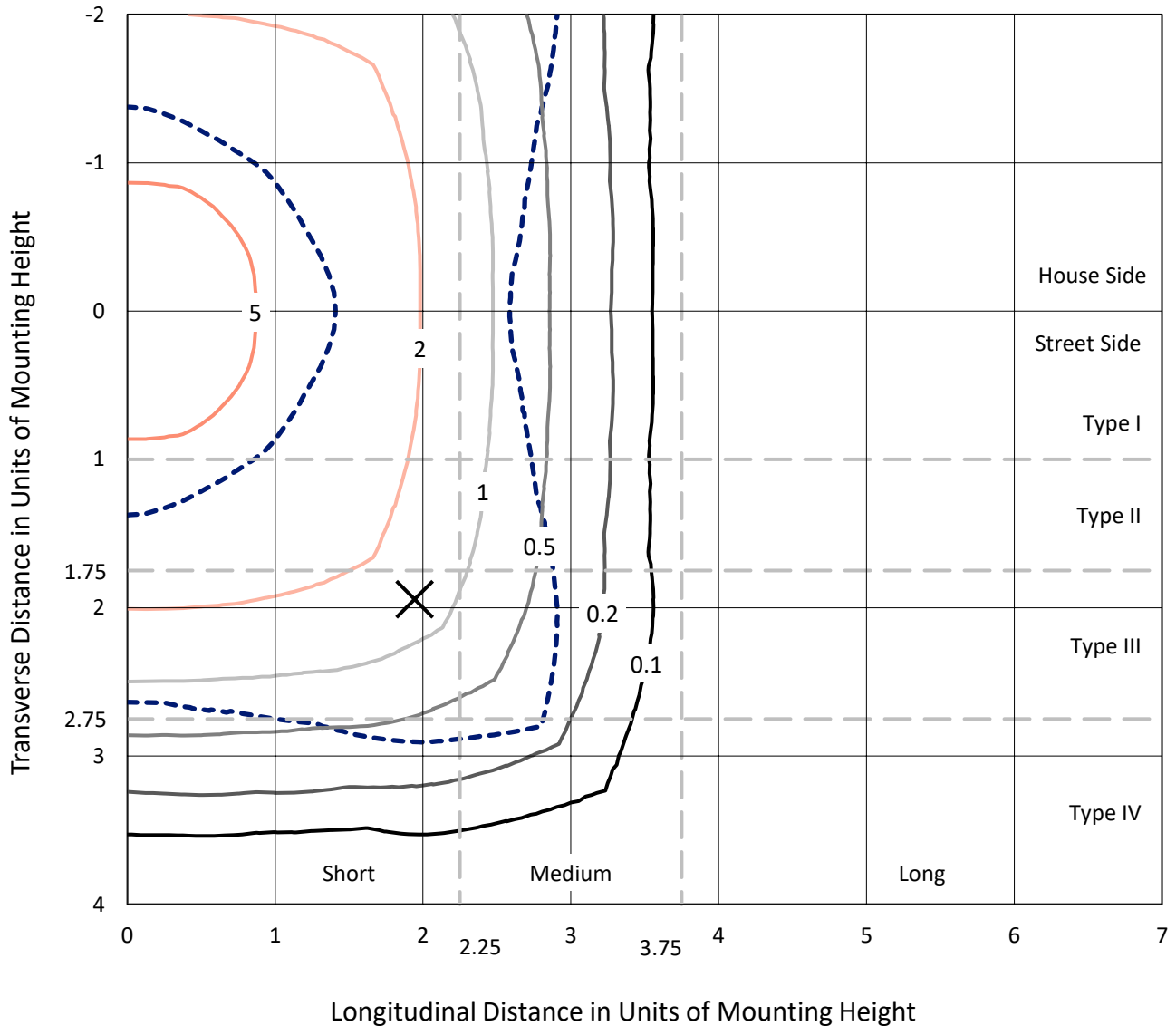
Input Watts (W): 368
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

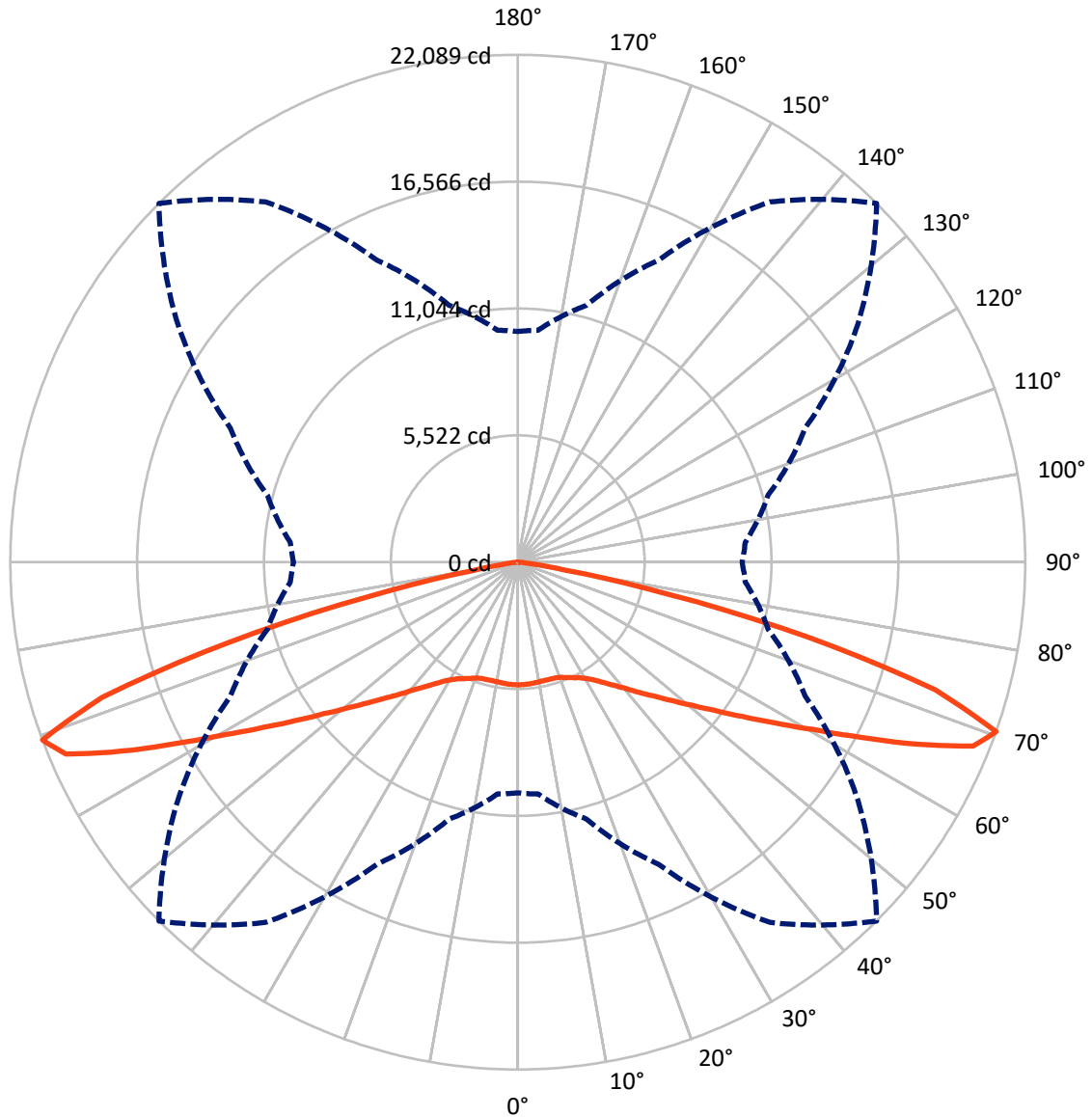
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 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	24056.5	0.0	24056.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	24056.5	0.0	24056.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	48113.0	0.0	48113.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	506.6	1.1
10°-20°	1486.7	3.1
20°-30°	2542.7	5.3
30°-40°	4035.8	8.4
40°-50°	6510.9	13.5
50°-60°	10593.4	22.0
60°-70°	15356.5	31.9
70°-80°	6811.6	14.2
80°-90°	268.7	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°	48113.0	100.0
0°-180°	48113.0	100.0



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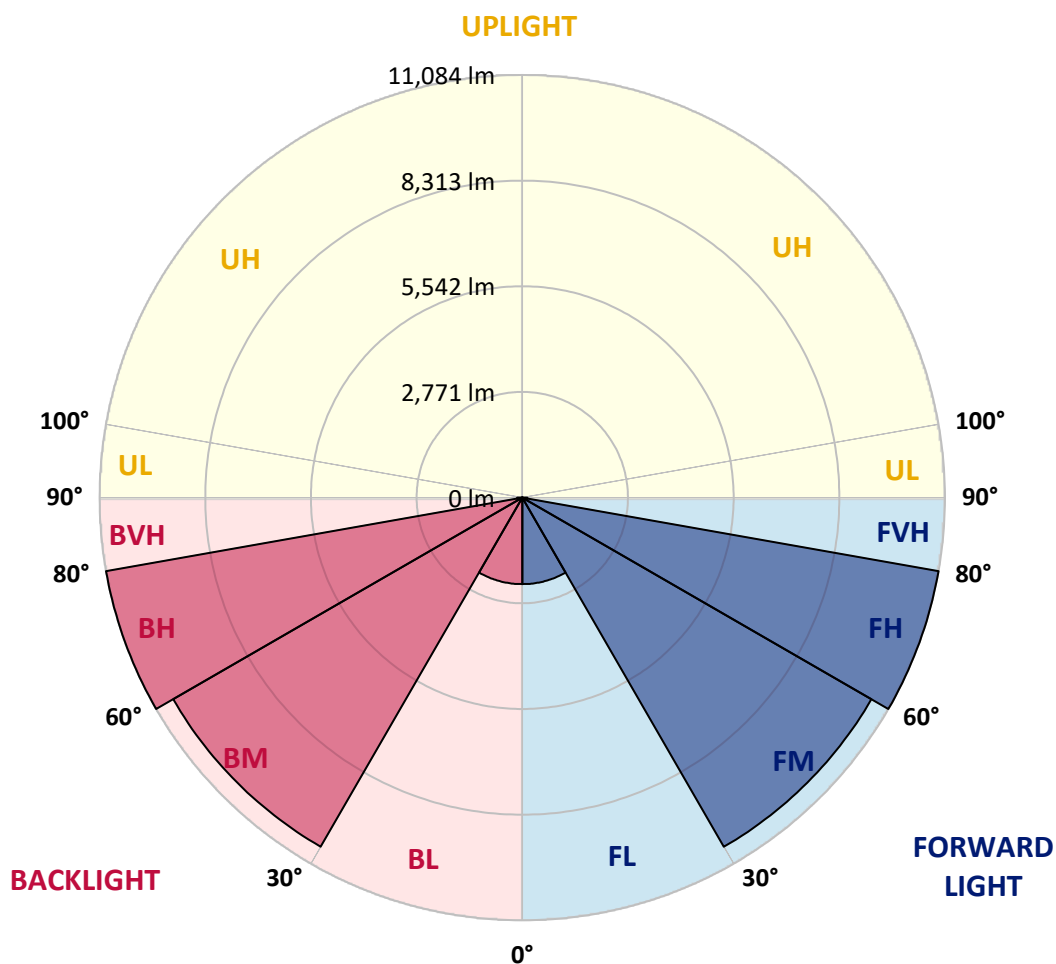
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2268.0	4.7			
FM (30°-60°)	10570.0	22.0			
FH (60°-80°)	11084.1	23.0			G4/12000
FVH (80°-90°)	134.3	0.3			G2/225
BL (0°-30°)	2268.0	4.7	B3/2500		
BM (30°-60°)	10570.0	22.0	B5		
BH (60°-80°)	11084.1	23.0	B5		G4/12000
BVH (80°-90°)	134.3	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°	5342.7	5342.7	5342.7	5342.7	5342.7	5342.7	5342.7	5342.7	5342.7	5342.7	5342.7
2.5°	5342.7	5347.8	5340.2	5335.1	5332.6	5332.6	5330.0	5332.6	5347.8	5350.3	5342.7
5°	5327.5	5332.6	5330.0	5325.0	5322.4	5322.4	5319.9	5317.4	5330.0	5335.1	5332.6
7.5°	5307.2	5309.8	5307.2	5304.7	5307.2	5304.7	5297.1	5292.0	5302.2	5302.2	5299.6
10°	5271.7	5276.8	5274.3	5276.8	5281.9	5281.9	5271.7	5261.6	5264.1	5259.0	5259.0
12.5°	5228.6	5236.2	5238.8	5248.9	5261.6	5276.8	5254.0	5231.2	5226.1	5223.5	5221.0
15°	5200.7	5208.3	5218.5	5228.6	5251.4	5284.4	5251.4	5215.9	5205.8	5195.7	5190.6
17.5°	5193.1	5203.3	5218.5	5233.7	5264.1	5297.1	5269.2	5233.7	5208.3	5193.1	5188.0
20°	5213.4	5221.0	5243.8	5271.7	5314.8	5347.8	5319.9	5281.9	5243.8	5221.0	5213.4
22.5°	5254.0	5266.7	5294.5	5345.3	5406.1	5454.3	5416.3	5352.9	5292.0	5261.6	5251.4
25°	5342.7	5352.9	5385.8	5454.3	5525.3	5570.9	5530.4	5456.8	5373.2	5332.6	5319.9
27.5°	5477.1	5492.3	5527.8	5609.0	5667.3	5692.6	5664.8	5614.0	5553.2	5510.1	5499.9
30°	5667.3	5685.0	5738.3	5824.5	5862.5	5877.8	5865.1	5832.1	5789.0	5743.4	5733.2
32.5°	5923.4	5933.5	5994.4	6075.5	6111.0	6116.1	6100.9	6085.7	6014.7	5938.6	5933.5
35°	6209.9	6227.7	6301.2	6397.6	6430.5	6433.1	6402.6	6379.8	6296.1	6235.3	6235.3
37.5°	6590.3	6597.9	6668.9	6777.9	6813.4	6803.3	6788.1	6767.8	6679.0	6600.4	6603.0
40°	7036.6	7051.8	7112.6	7239.4	7239.4	7226.7	7236.9	7221.7	7132.9	7056.9	7059.4
42.5°	7566.5	7574.1	7647.7	7782.1	7771.9	7746.6	7756.7	7736.4	7680.6	7594.4	7564.0
45°	8132.0	8162.4	8289.2	8418.5	8398.2	8317.1	8357.7	8352.6	8301.9	8172.6	8180.2
47.5°	8814.1	8864.8	8986.5	9141.2	9118.4	8991.6	9037.2	9067.7	8996.7	8854.7	8829.3
50°	9582.4	9615.4	9795.4	9939.9	9919.7	9785.3	9889.2	9894.3	9716.8	9516.5	9516.5
52.5°	10401.4	10434.4	10677.8	10903.5	10916.2	10720.9	10804.6	10799.6	10510.5	10246.8	10196.1
55°	11319.4	11334.6	11649.0	11981.2	12052.2	11862.0	11872.2	11770.7	11395.4	11088.6	11060.7
57.5°	12267.7	12323.5	12670.9	13102.0	13312.4	13195.8	13142.5	12871.2	12508.6	12156.2	12138.4
60°	13317.5	13320.0	13771.4	14281.1	14707.1	14785.7	14567.6	14205.0	13735.9	13269.3	13249.0
62.5°	14045.2	14154.3	14724.8	15587.0	16350.2	16791.4	16215.8	15455.1	14532.1	13779.0	13702.9
65°	14194.9	14268.4	15138.1	16598.7	18158.2	19109.0	17777.8	16160.0	14585.4	13581.2	13530.5
67.5°	12985.3	13063.9	14235.4	16477.0	19426.0	21376.0	18792.1	15820.2	13682.6	12440.1	12341.3
70°	10043.9	10132.7	11580.5	14504.2	19144.5	22088.5	18069.4	13799.3	11283.9	9942.5	9762.4
72.5°	5340.2	5667.3	6904.7	9955.2	15538.8	19017.8	14816.1	10069.3	7277.5	5948.8	5710.4
75°	1950.0	1990.5	2680.2	4414.7	9039.8	13041.1	9387.2	4802.6	2761.4	2132.5	2023.5
77.5°	806.4	803.8	882.4	1333.8	3283.7	6679.0	3664.1	1409.8	879.9	814.0	803.8
80°	476.7	476.7	524.9	555.3	864.7	2015.9	966.1	628.9	527.4	481.8	489.4
82.5°	213.0	225.7	332.2	349.9	418.4	552.8	466.6	400.6	344.9	238.4	215.5
85°	116.6	101.4	175.0	182.6	200.3	205.4	220.6	218.1	200.3	116.6	119.2
87.5°	22.8	27.9	50.7	38.0	43.1	38.0	50.7	71.0	73.5	40.6	33.0
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)