

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: P533369

Luminaire Tested: **GALN-SA8D-740-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533369
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-740-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 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: 37490 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

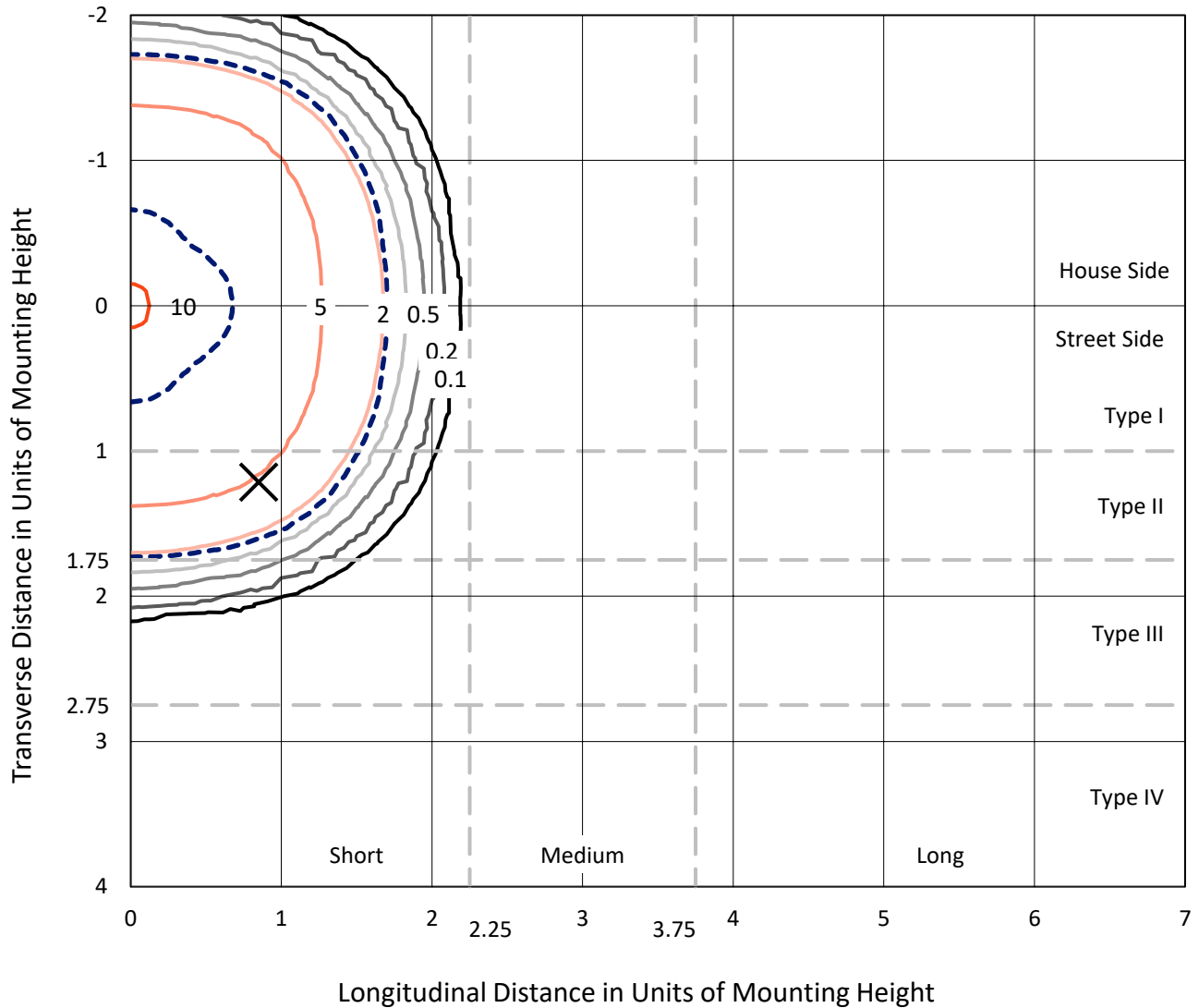
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

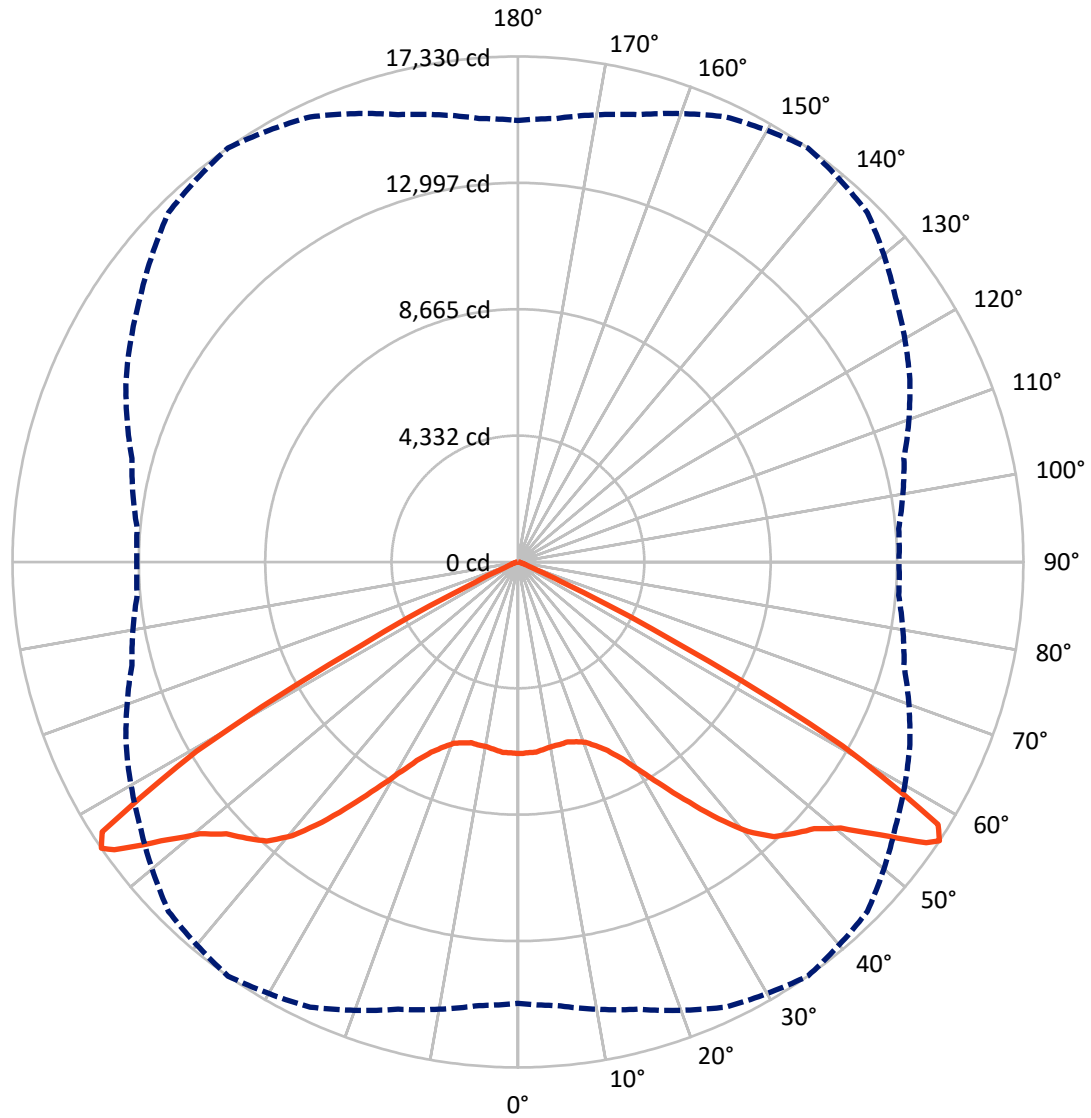
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 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	18745.0	0.0	18745.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18745.0	0.0	18745.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	37490.0	0.0	37490.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	617.4	1.6
10°-20°	1802.5	4.8
20°-30°	3264.0	8.7
30°-40°	6052.7	16.1
40°-50°	9935.1	26.5
50°-60°	12799.3	34.1
60°-70°	2820.8	7.5
70°-80°	163.7	0.4
80°-90°	34.5	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°	37490.0	100.0
0°-180°	37490.0	100.0

Coefficient of Utilization

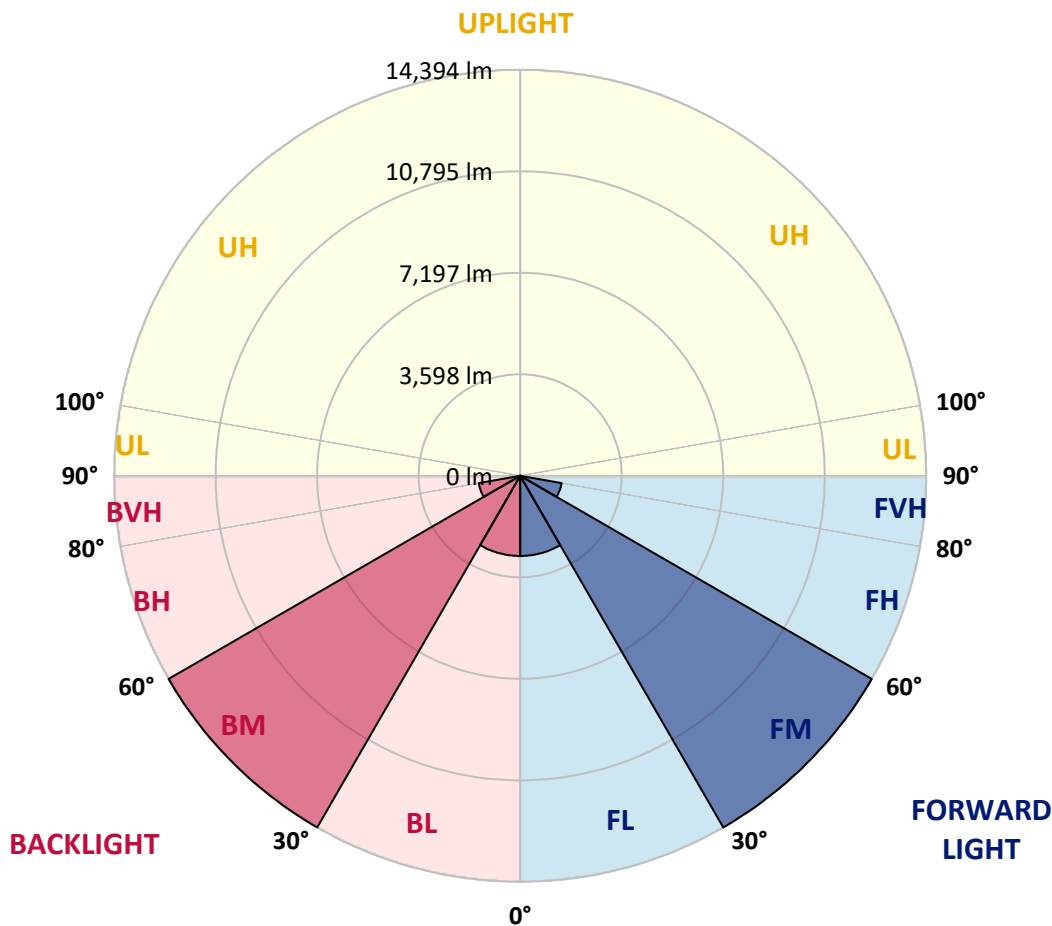


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2842.0	7.6			
FM (30°-60°)	14393.6	38.4			
FH (60°-80°)	1492.2	4.0			G1/1800
FVH (80°-90°)	17.2	0.0			G1/100
BL (0°-30°)	2842.0	7.6	B4/5000		
BM (30°-60°)	14393.6	38.4	B5		
BH (60°-80°)	1492.2	4.0	B3/2500		G1/1800
BVH (80°-90°)	17.2	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°	6569.1	6569.1	6569.1	6569.1	6569.1	6569.1	6569.1	6569.1	6569.1	6569.1	6569.1
2.5°	6582.6	6582.6	6589.4	6596.2	6548.7	6528.3	6535.1	6521.5	6514.7	6535.1	6535.1
5°	6562.3	6562.3	6541.9	6548.7	6548.7	6487.5	6487.5	6501.1	6501.1	6460.4	6446.8
7.5°	6507.9	6494.3	6467.2	6501.1	6480.7	6480.7	6433.2	6399.2	6385.6	6412.8	6385.6
10°	6392.4	6399.2	6426.4	6440.0	6426.4	6467.2	6385.6	6338.1	6290.5	6270.2	6270.2
12.5°	6338.1	6378.8	6338.1	6372.1	6419.6	6385.6	6338.1	6304.1	6236.2	6209.0	6209.0
15°	6331.3	6358.5	6372.1	6419.6	6399.2	6412.8	6317.7	6276.9	6175.0	6127.5	6107.1
17.5°	6324.5	6358.5	6378.8	6467.2	6480.7	6487.5	6412.8	6290.5	6202.2	6154.7	6107.1
20°	6399.2	6412.8	6453.6	6541.9	6596.2	6691.3	6555.5	6426.4	6236.2	6181.8	6161.5
22.5°	6494.3	6562.3	6603.0	6698.1	6840.8	6922.3	6745.7	6582.6	6385.6	6317.7	6236.2
25°	6800.0	6786.4	6854.4	7051.4	7166.9	7228.0	7085.3	6847.6	6589.4	6507.9	6521.5
27.5°	7180.4	7194.0	7255.2	7472.6	7642.4	7737.5	7567.7	7255.2	7003.8	6868.0	6854.4
30°	7676.4	7662.8	7730.7	8022.8	8328.5	8471.2	8172.3	7805.4	7560.9	7384.2	7425.0
32.5°	8199.4	8206.2	8396.4	8661.4	9157.3	9435.8	8953.5	8505.1	8138.3	8016.0	7954.9
35°	8973.9	9007.8	9157.3	9564.9	10115.1	10475.2	9945.3	9408.6	8987.4	8763.3	8790.4
37.5°	9931.7	9897.7	10149.1	10590.6	11168.1	11433.0	10984.7	10373.3	9945.3	9795.8	9890.9
40°	10950.7	10984.7	11113.7	11514.5	12159.9	12336.5	11670.8	11337.9	10964.3	10889.5	11005.0
42.5°	11969.7	11949.3	12044.4	12404.4	12873.2	12750.9	12356.9	12159.9	11894.9	11745.5	11901.7
45°	12716.9	12683.0	12859.6	13104.1	13274.0	13043.0	12866.4	12798.4	12662.6	12499.5	12642.2
47.5°	13443.8	13416.6	13586.5	13654.4	13668.0	13362.3	13396.3	13518.5	13178.9	12839.2	13002.2
50°	14062.0	14014.4	14225.0	14374.5	14340.5	13851.4	13973.7	13851.4	13321.5	12920.7	12859.6
52.5°	15094.6	15114.9	15339.1	15610.8	15529.3	15121.7	14945.1	14388.1	13708.7	13348.7	13138.1
55°	15746.7	15644.8	16032.0	16894.8	16989.9	16568.7	15787.5	14965.5	13946.5	13504.9	13450.6
56°	15135.3	15264.4	15875.8	16840.4	17329.5	16942.3	15807.8	14822.8	13701.9	13104.1	13063.4
57.5°	13579.7	13511.7	14340.5	15658.4	16989.9	16826.8	15250.8	13803.8	12499.5	11827.0	11745.5
60°	8450.8	8647.8	9374.7	11005.0	12784.9	12866.4	11303.9	10060.8	8539.1	7941.3	8083.9
62.5°	3308.3	3138.5	3593.6	4809.6	6032.4	6304.1	5713.1	4748.5	3899.3	3308.3	3267.5
65°	767.6	747.3	842.4	1161.6	1623.6	1881.7	1786.6	1283.9	944.3	896.7	828.8
67.5°	434.8	434.8	414.4	414.4	455.1	482.3	461.9	455.1	475.5	495.9	489.1
70°	305.7	298.9	285.3	292.1	278.5	278.5	298.9	332.9	360.0	360.0	366.8
72.5°	183.4	183.4	183.4	203.8	203.8	203.8	224.2	251.3	258.1	251.3	244.6
75°	81.5	81.5	95.1	115.5	129.1	135.9	156.2	169.8	183.4	169.8	156.2
77.5°	20.4	20.4	34.0	47.6	61.1	74.7	101.9	122.3	129.1	122.3	101.9
80°	6.8	6.8	13.6	34.0	61.1	74.7	101.9	108.7	115.5	101.9	81.5
82.5°	6.8	6.8	13.6	34.0	47.6	61.1	81.5	95.1	101.9	88.3	81.5
85°	0.0	6.8	13.6	27.2	40.8	54.3	54.3	40.8	34.0	20.4	27.2
87.5°	0.0	0.0	6.8	6.8	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)