

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: P534282

Luminaire Tested: **GALN-SA9D-735-U-5NQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534282
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-6)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-735-U-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 58844 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

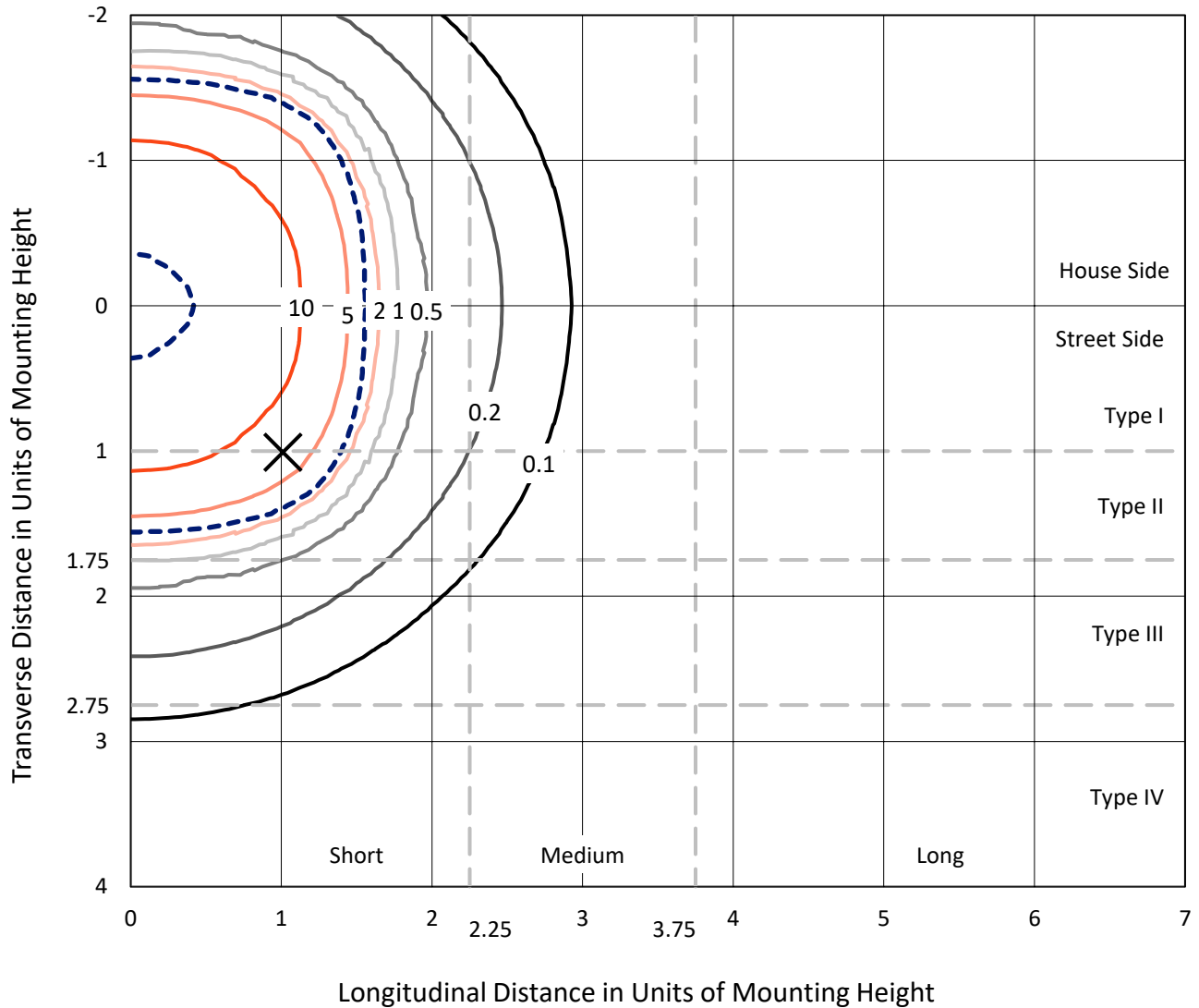
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

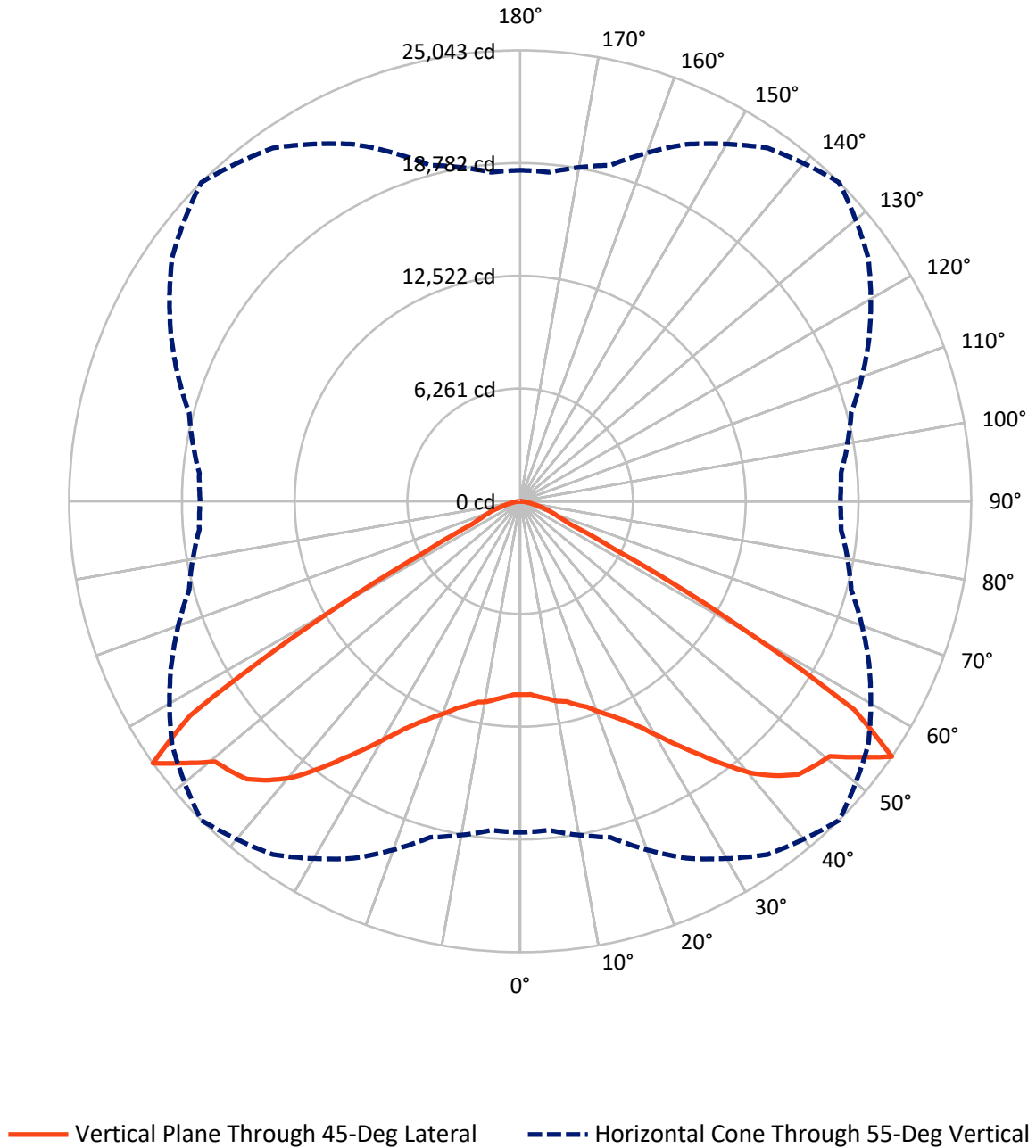
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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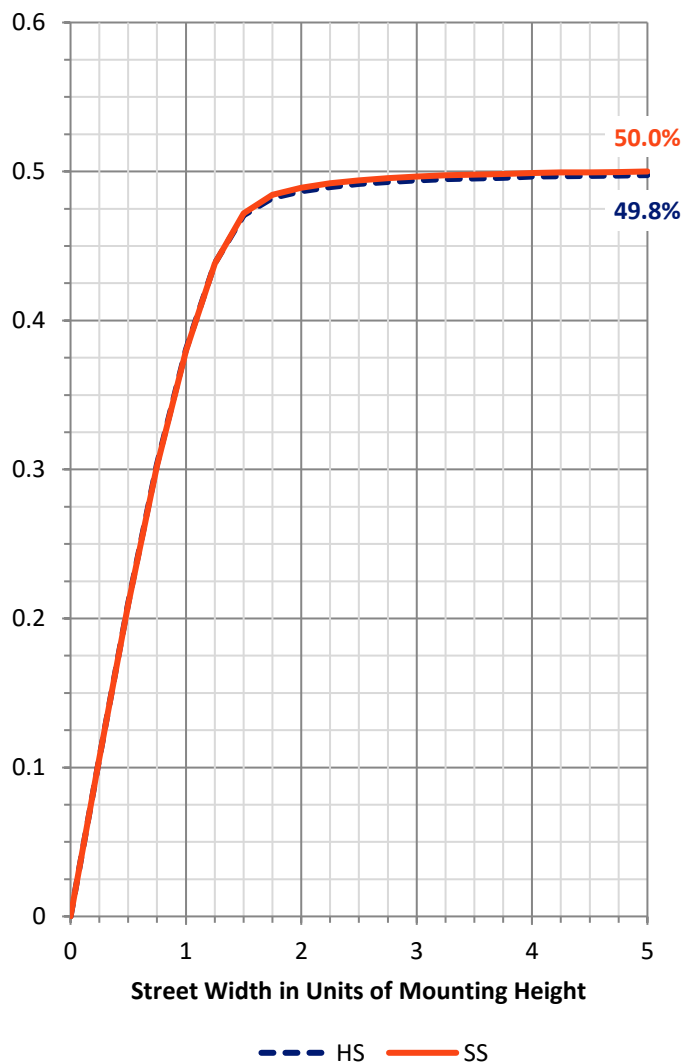
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	29422.0	0.0	29422.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	29422.0	0.0	29422.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	58844.0	0.0	58844.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1049.6	1.8
10°-20°	3325.6	5.7
20°-30°	6201.3	10.5
30°-40°	10382.9	17.6
40°-50°	16156.6	27.5
50°-60°	16775.7	28.5
60°-70°	3557.6	6.0
70°-80°	1171.6	2.0
80°-90°	223.1	0.4
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°	58844.0	100.0
0°-180°	58844.0	100.0

Coefficient of Utilization

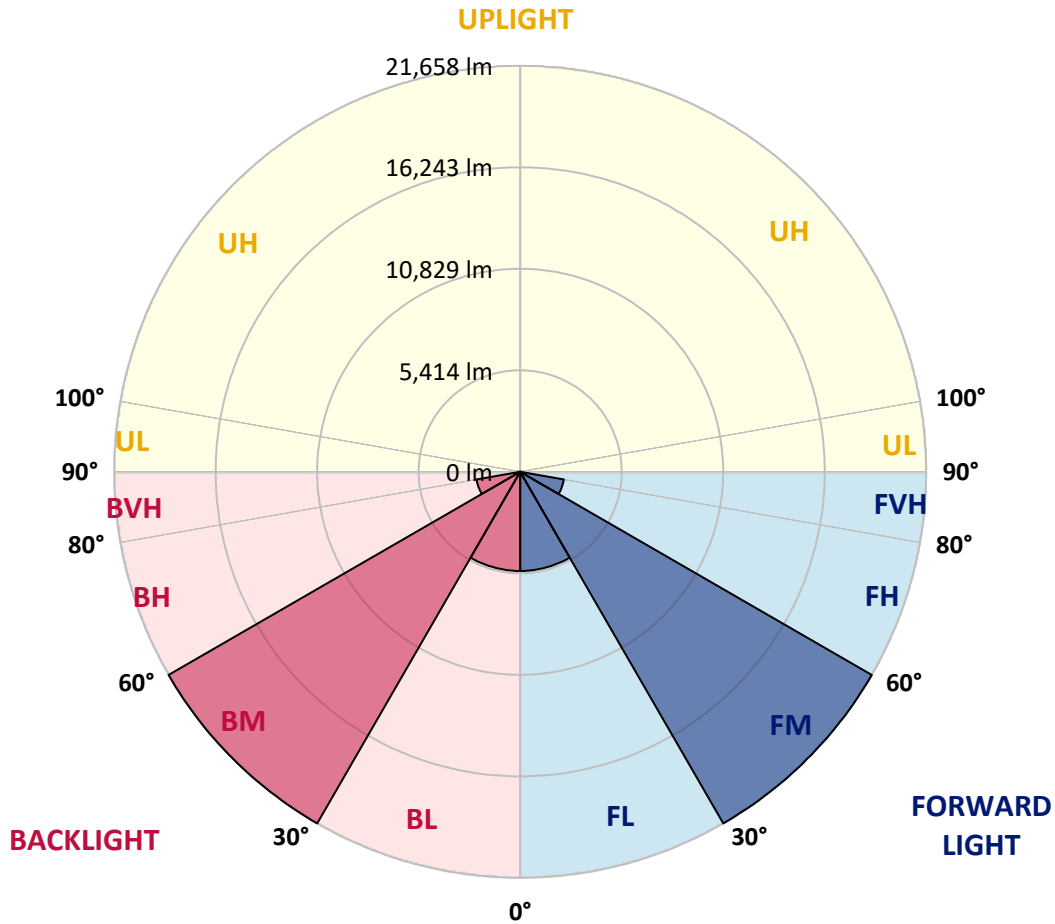


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5288.2	9.0			
FM (30°-60°)	21657.6	36.8			
FH (60°-80°)	2364.6	4.0			G2/5000
FVH (80°-90°)	111.6	0.2			G2/225
BL (0°-30°)	5288.2	9.0	B5		
BM (30°-60°)	21657.6	36.8	B5		
BH (60°-80°)	2364.6	4.0	B3/2500		G2/5000
BVH (80°-90°)	111.6	0.2			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G2
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	10744.0	10744.0	10744.0	10744.0	10744.0	10744.0	10744.0	10744.0	10744.0	10744.0	10744.0
2.5°	10872.0	10822.3	10736.9	10800.9	10850.7	10744.0	10786.7	10808.0	10793.8	10736.9	10758.3
5°	11028.5	11000.0	10928.9	10978.7	10914.7	10914.7	10872.0	10815.1	10900.5	10886.2	10921.8
7.5°	11028.5	10992.9	11135.1	11042.7	11071.1	11071.1	11000.0	10943.1	10985.8	10921.8	10886.2
10°	11248.9	11298.7	11234.7	11256.0	11241.8	11291.5	11184.9	11149.3	11113.8	11092.5	11049.8
12.5°	11512.0	11476.4	11497.8	11483.5	11533.3	11405.3	11341.3	11263.1	11327.1	11234.7	11298.7
15°	11725.3	11704.0	11725.3	11782.2	11732.4	11725.3	11611.5	11533.3	11433.8	11455.1	11355.5
17.5°	12016.8	11995.5	12002.6	12052.4	12045.3	12009.7	11924.4	11775.1	11739.5	11682.6	11618.6
20°	12450.6	12415.0	12400.8	12422.1	12457.7	12486.1	12315.5	12258.6	12137.7	12045.3	11938.6
22.5°	12820.3	12806.1	12863.0	12770.5	12848.8	12934.1	12770.5	12742.1	12443.5	12393.7	12279.9
25°	13332.3	13310.9	13275.4	13410.5	13502.9	13495.8	13339.4	13183.0	12955.4	12898.5	12898.5
27.5°	13872.7	13751.8	13936.7	13972.2	14135.8	14185.5	14050.4	13822.9	13609.6	13488.7	13517.2
30°	14548.2	14434.4	14477.1	14733.1	14946.4	15131.2	14789.9	14455.7	14157.1	13943.8	13908.2
32.5°	15223.7	15109.9	15237.9	15486.8	15913.4	16190.7	15856.5	15273.5	14925.0	14612.2	14676.2
35°	15771.2	15856.5	16062.7	16439.6	16880.4	17328.4	16795.1	16347.1	15849.4	15501.0	15550.8
37.5°	16652.9	16916.0	17079.5	17513.3	18139.0	18601.2	18046.6	17463.5	16930.2	16475.1	16318.7
40°	17804.8	17982.6	18167.4	18679.4	19418.9	19881.1	19354.9	18594.1	18067.9	17598.6	17577.3
42.5°	19070.5	19241.1	19433.1	20058.9	20499.7	20848.1	20364.6	19959.3	19376.2	19006.5	18985.2
45°	20542.4	20421.5	20634.8	21047.2	21417.0	21644.5	21331.6	21132.5	20713.0	20371.7	20336.2
47.5°	21523.6	21417.0	21800.9	22170.7	22227.6	21978.7	22042.7	22227.6	21786.7	21225.0	21402.7
50°	22092.5	22092.5	22348.4	22689.8	22583.1	22263.1	22768.0	22782.2	22341.3	21843.6	21843.6
52.5°	21104.1	21324.5	22049.8	23166.2	23521.7	23614.1	23500.4	23016.8	21864.9	20848.1	20798.4
55°	18387.9	18338.1	19319.4	21879.2	23948.3	25043.3	23592.8	21367.2	19027.8	17883.0	17769.3
57.5°	11959.9	12016.8	13481.6	16091.2	19824.2	21864.9	19418.9	16290.3	13481.6	11903.1	12052.4
60°	5382.7	5574.7	6463.5	8411.8	11618.6	13282.5	11647.1	8838.4	6783.5	5887.5	5965.7
62.5°	3093.1	3128.6	3164.2	3754.4	4948.9	5852.0	5140.9	3967.7	3498.4	3342.0	3342.0
65°	2609.6	2588.2	2595.3	2645.1	2773.1	2958.0	2879.8	2773.1	2787.3	2773.1	2751.8
67.5°	2218.5	2246.9	2225.6	2261.2	2268.3	2296.7	2346.5	2389.1	2396.3	2410.5	2396.3
70°	1820.3	1827.4	1841.6	1870.1	1877.2	1898.5	1969.6	2005.2	2026.5	2026.5	2054.9
72.5°	1393.7	1386.6	1400.8	1429.2	1464.8	1471.9	1535.9	1585.7	1614.1	1578.5	1585.7
75°	917.3	924.4	945.7	967.0	1016.8	1066.6	1087.9	1137.7	1144.8	1159.0	1123.5
77.5°	547.5	561.7	583.1	625.7	668.4	711.1	760.8	796.4	810.6	796.4	753.7
80°	355.5	355.5	384.0	419.5	469.3	504.8	533.3	561.7	583.1	561.7	547.5
82.5°	220.4	220.4	256.0	298.6	334.2	355.5	398.2	433.7	455.1	440.9	419.5
85°	113.8	120.9	149.3	184.9	213.3	227.5	220.4	199.1	177.8	170.7	156.4
87.5°	35.6	35.6	42.7	42.7	35.6	35.6	42.7	35.6	42.7	42.7	42.7
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)