

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: P534002

Luminaire Tested: **GALN-SA9C-727-U-RW-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534002
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-8)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-727-U-RW-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46705 lumens
Efficiency: N/A
Efficacy: 97.1 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

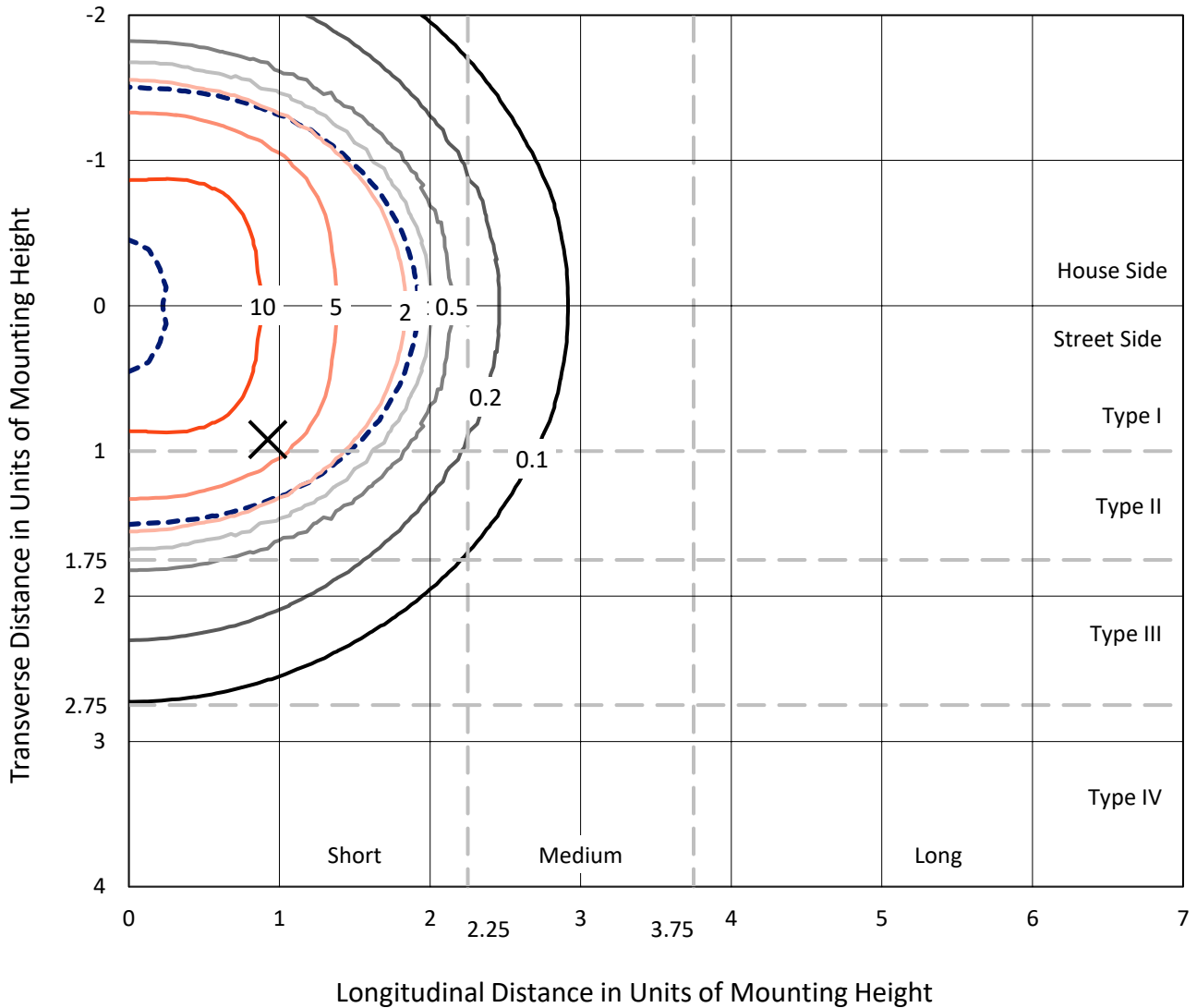
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

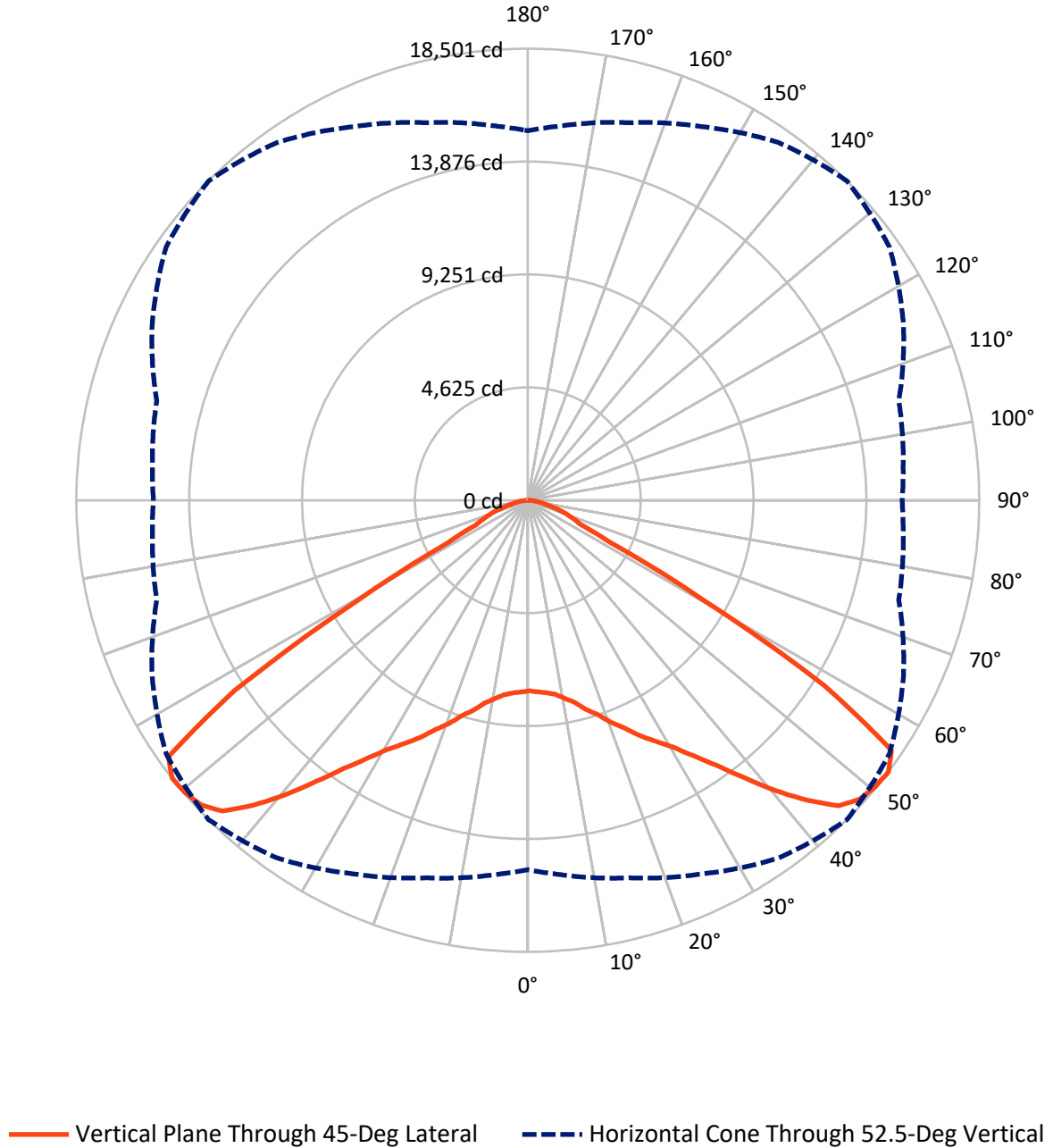
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.8 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	23352.5	0.0	23352.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	23352.5	0.0	23352.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	46705.0	0.0	46705.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	767.1	1.6
10°-20°	2520.5	5.4
20°-30°	4798.6	10.3
30°-40°	8239.6	17.6
40°-50°	12664.5	27.1
50°-60°	12860.5	27.5
60°-70°	3584.1	7.7
70°-80°	1057.3	2.3
80°-90°	213.0	0.5
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°	46705.0	100.0
0°-180°	46705.0	100.0

Coefficient of Utilization



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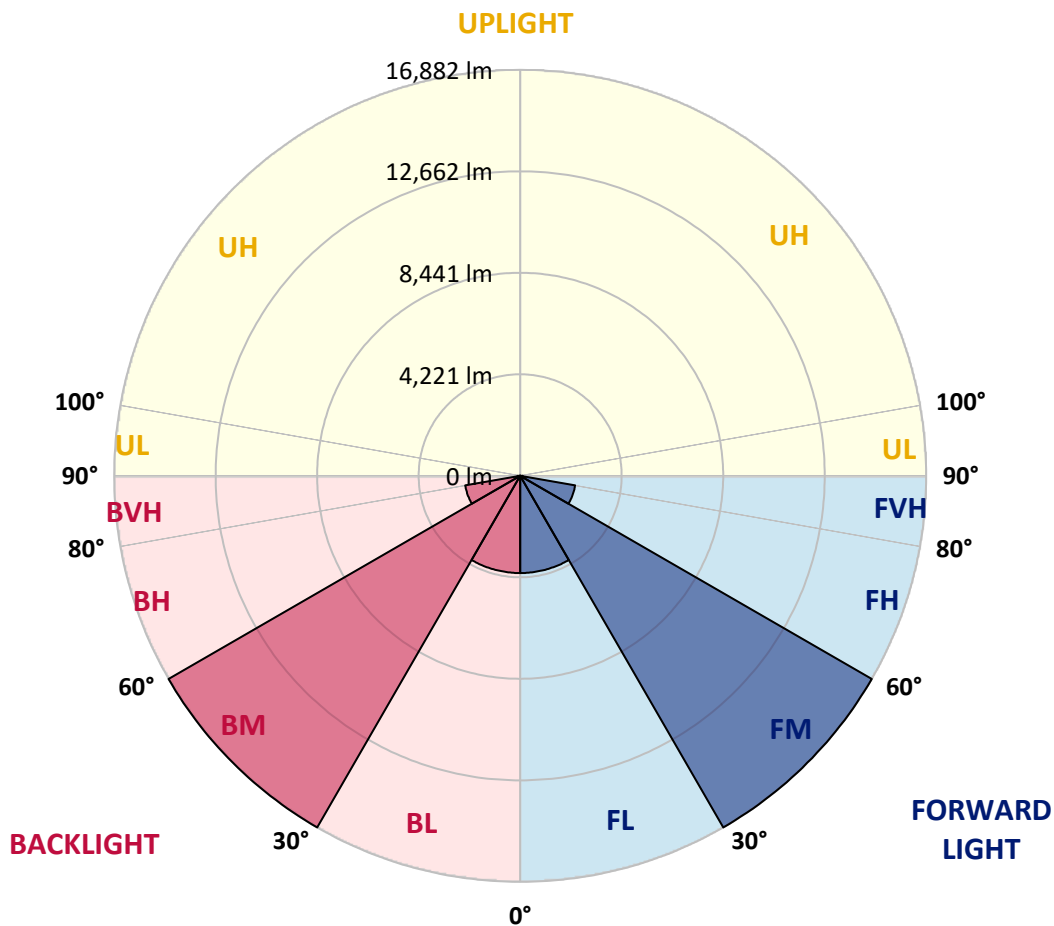
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4043.1	8.7			
FM (30°-60°)	16882.3	36.1			
FH (60°-80°)	2320.7	5.0			G2/5000
FVH (80°-90°)	106.5	0.2			G2/225
BL (0°-30°)	4043.1	8.7	B4/5000		
BM (30°-60°)	16882.3	36.1	B5		
BH (60°-80°)	2320.7	5.0	B3/2500		G2/5000
BVH (80°-90°)	106.5	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°	7807.4	7807.4	7807.4	7807.4	7807.4	7807.4	7807.4	7807.4	7807.4	7807.4	7807.4
2.5°	7824.7	7743.6	7772.6	7790.0	7865.3	7859.5	7842.1	7865.3	7888.5	7894.3	7882.7
5°	7818.9	7761.0	7784.2	7801.6	7876.9	7917.5	7905.9	8004.4	8074.0	8056.6	8143.5
7.5°	7772.6	7807.4	7778.4	7865.3	7929.1	8027.6	8131.9	8224.7	8311.6	8410.2	8427.5
10°	7876.9	7876.9	7929.1	7998.6	8166.7	8242.1	8392.8	8526.1	8694.2	8810.1	8763.7
12.5°	7987.0	8004.4	8004.4	8184.1	8323.2	8491.3	8630.4	8810.1	9047.7	9186.8	9256.4
15°	8097.2	8108.8	8166.7	8410.2	8618.8	8885.4	9012.9	9175.2	9308.5	9569.4	9575.2
17.5°	8195.7	8259.5	8433.3	8705.8	8966.6	9221.6	9424.5	9592.6	9708.5	9812.8	9789.6
20°	8566.6	8613.0	8792.7	9065.1	9453.5	9702.7	9772.2	9801.2	9876.6	10085.2	10021.5
22.5°	8926.0	8943.4	9111.5	9528.8	9801.2	10131.6	10206.9	10189.6	10218.5	10270.7	10363.4
25°	9297.0	9325.9	9557.8	9911.3	10293.9	10688.0	10751.8	10618.5	10577.9	10635.9	10641.7
27.5°	9772.2	9778.0	10073.6	10380.8	10815.5	11186.5	11285.0	11180.7	10989.4	11035.8	11111.1
30°	10375.0	10334.5	10630.1	11070.6	11528.5	11737.1	11905.2	11853.0	11644.4	11603.8	11540.0
32.5°	11070.6	11082.2	11348.8	11829.9	12131.3	12479.0	12658.7	12571.8	12438.4	12368.9	12409.5
35°	12050.1	12102.3	12282.0	12681.9	13168.8	13342.6	13626.6	13441.2	13093.4	13180.3	13255.7
37.5°	12855.8	13006.5	13342.6	13817.9	14107.7	14426.5	14530.8	14281.6	14026.6	13922.2	14171.5
40°	14090.3	14044.0	14414.9	14890.2	15319.1	15637.9	15504.6	15255.4	14623.6	14629.4	14698.9
42.5°	15151.0	15174.2	15458.2	16026.2	16611.6	16808.7	16385.6	15777.0	15075.7	15000.3	15151.0
45°	16043.6	16136.4	16298.7	17057.9	17631.8	17846.2	17063.7	16345.0	15406.1	15093.1	15342.3
47.5°	16362.4	16513.1	16866.7	17562.2	18130.2	18304.1	17678.1	16646.4	15713.2	15203.2	15336.5
50°	16408.8	16356.6	16936.2	17573.8	18072.3	18449.0	17898.4	16866.7	15637.9	15371.3	15330.7
52.5°	15139.4	15394.5	16014.6	16889.9	17898.4	18501.2	18095.4	16988.4	15742.2	15440.8	15342.3
55°	12253.0	11951.6	13081.8	14554.0	16408.8	18083.9	18025.9	17052.1	15806.0	15556.8	15423.4
57.5°	6839.4	6926.3	7563.9	9163.6	11557.4	14339.6	16026.2	16379.8	15777.0	15632.1	15701.7
60°	3164.7	3193.7	3466.1	4213.8	5697.6	8131.9	10351.8	12606.5	13644.0	13852.7	13852.7
62.5°	2359.0	2347.4	2417.0	2550.3	2863.3	3738.5	4990.4	6781.4	8207.3	9204.2	9465.0
65°	2133.0	2127.2	2161.9	2208.3	2231.5	2353.2	2631.4	3182.1	3645.8	3912.4	3866.0
67.5°	1866.3	1860.6	1872.1	1901.1	1941.7	2005.5	2075.0	2190.9	2353.2	2341.6	2312.6
70°	1507.0	1507.0	1524.4	1547.6	1593.9	1669.3	1750.4	1831.6	1970.7	1999.7	1993.9
72.5°	1112.9	1095.5	1130.2	1176.6	1223.0	1315.7	1402.7	1478.0	1576.5	1605.5	1593.9
75°	707.1	718.7	741.9	794.1	875.2	939.0	1031.7	1095.5	1159.2	1182.4	1188.2
77.5°	394.1	405.7	446.3	510.1	591.2	660.8	741.9	794.1	834.6	840.4	846.2
80°	237.6	243.4	284.0	342.0	411.5	486.9	550.6	602.8	637.6	620.2	614.4
82.5°	144.9	150.7	185.5	237.6	295.6	353.6	423.1	469.5	504.3	481.1	457.9
85°	75.3	81.1	110.1	144.9	191.3	220.3	220.3	197.1	191.3	179.7	173.9
87.5°	23.2	23.2	29.0	34.8	29.0	34.8	40.6	46.4	46.4	52.2	46.4
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)