

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: P532358

Luminaire Tested: **GALN-SA7D-727-U-5NQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532358
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-SA7D-727-U-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 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: 40589 lumens
Efficiency: N/A
Efficacy: 93.7 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

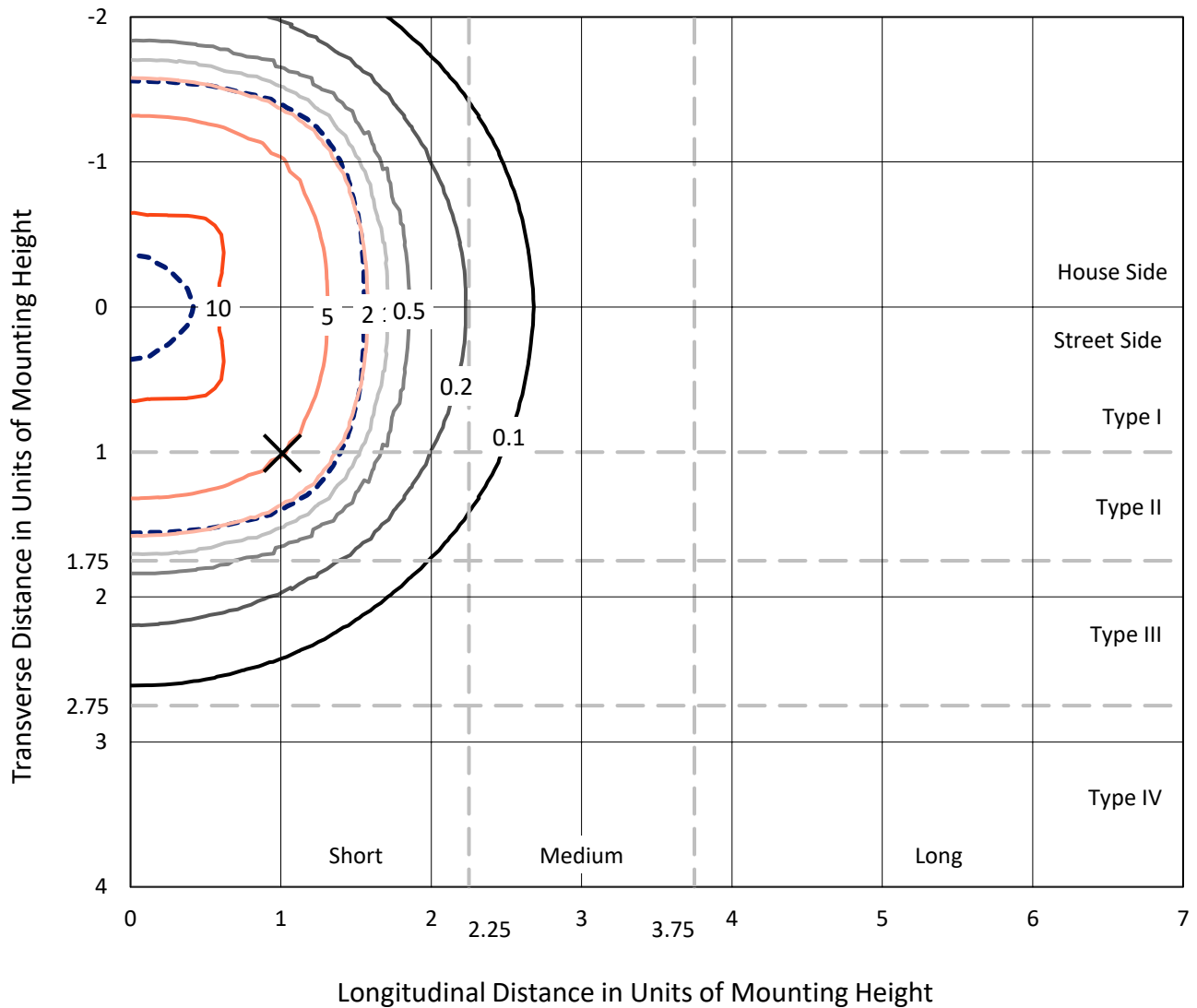
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

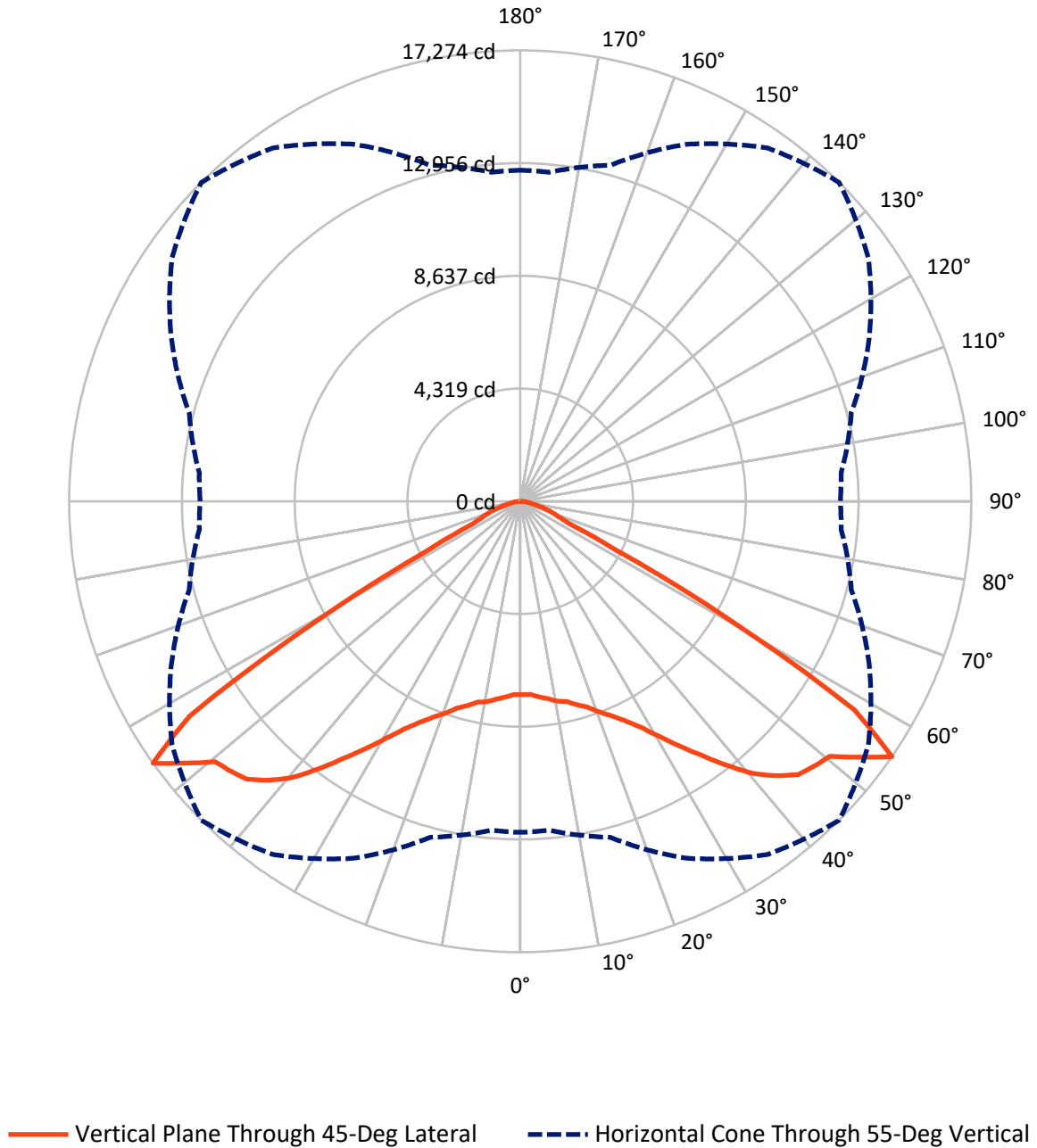
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 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	20294.5	0.0	20294.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20294.5	0.0	20294.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	40589.0	0.0	40589.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	724.0	1.8
10°-20°	2293.9	5.7
20°-30°	4277.5	10.5
30°-40°	7161.9	17.6
40°-50°	11144.4	27.5
50°-60°	11571.4	28.5
60°-70°	2453.9	6.0
70°-80°	808.2	2.0
80°-90°	153.9	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°	40589.0	100.0
0°-180°	40589.0	100.0

Coefficient of Utilization



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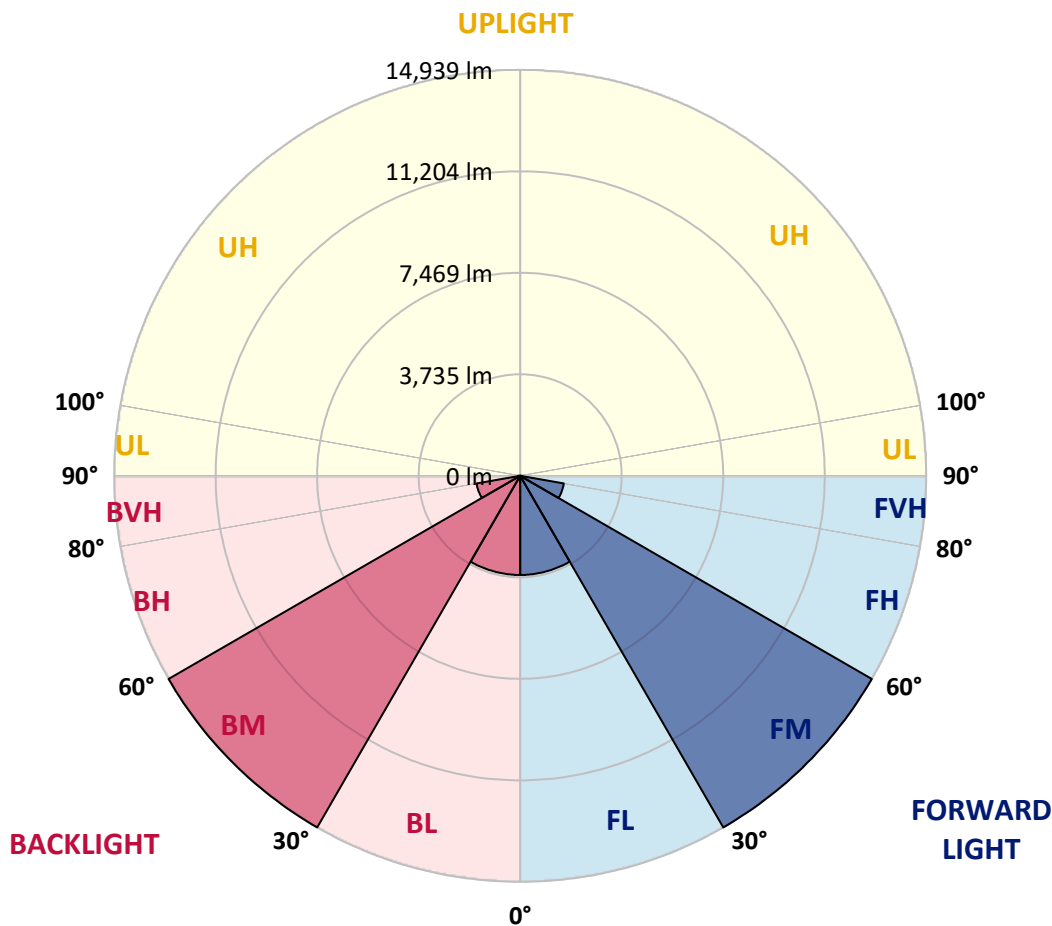
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3647.7	9.0			
FM (30°-60°)	14938.8	36.8			
FH (60°-80°)	1631.0	4.0			G1/1800
FVH (80°-90°)	76.9	0.2			G1/100
BL (0°-30°)	3647.7	9.0	B4/5000		
BM (30°-60°)	14938.8	36.8	B5		
BH (60°-80°)	1631.0	4.0	B3/2500		G1/1800
BVH (80°-90°)	76.9	0.2			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°	7410.9	7410.9	7410.9	7410.9	7410.9	7410.9	7410.9	7410.9	7410.9	7410.9	7410.9
2.5°	7499.2	7464.9	7406.0	7450.2	7484.5	7410.9	7440.4	7455.1	7445.3	7406.0	7420.8
5°	7607.1	7587.5	7538.5	7572.8	7528.7	7528.7	7499.2	7460.0	7518.8	7509.0	7533.6
7.5°	7607.1	7582.6	7680.7	7616.9	7636.6	7636.6	7587.5	7548.3	7577.7	7533.6	7509.0
10°	7759.2	7793.5	7749.4	7764.1	7754.3	7788.6	7715.0	7690.5	7666.0	7651.3	7621.8
12.5°	7940.6	7916.1	7930.8	7921.0	7955.4	7867.1	7822.9	7769.0	7813.1	7749.4	7793.5
15°	8087.8	8073.1	8087.8	8127.0	8092.7	8087.8	8009.3	7955.4	7886.7	7901.4	7832.7
17.5°	8288.9	8274.2	8279.1	8313.4	8308.5	8284.0	8225.1	8122.1	8097.6	8058.4	8014.2
20°	8588.1	8563.5	8553.7	8568.4	8593.0	8612.6	8494.9	8455.6	8372.3	8308.5	8234.9
22.5°	8843.1	8833.3	8872.5	8808.8	8862.7	8921.6	8808.8	8789.2	8583.2	8548.8	8470.4
25°	9196.2	9181.5	9157.0	9250.2	9314.0	9309.1	9201.1	9093.2	8936.3	8897.1	8897.1
27.5°	9569.0	9485.6	9613.1	9637.7	9750.5	9784.8	9691.6	9534.7	9387.5	9304.1	9323.8
30°	10034.9	9956.5	9985.9	10162.5	10309.6	10437.1	10201.7	9971.2	9765.2	9618.0	9593.5
32.5°	10500.9	10422.4	10510.7	10682.4	10976.6	11167.9	10937.4	10535.2	10294.9	10079.1	10123.2
35°	10878.5	10937.4	11079.6	11339.6	11643.7	11952.7	11584.8	11275.8	10932.5	10692.2	10726.5
37.5°	11486.7	11668.2	11781.0	12080.2	12511.8	12830.6	12448.0	12045.9	11678.0	11364.1	11256.2
40°	12281.3	12403.9	12531.4	12884.6	13394.6	13713.4	13350.5	12825.7	12462.7	12139.0	12124.3
42.5°	13154.3	13272.0	13404.4	13836.1	14140.1	14380.5	14047.0	13767.4	13365.2	13110.2	13095.5
45°	14169.6	14086.2	14233.3	14517.8	14772.8	14929.8	14714.0	14576.7	14287.3	14051.9	14027.3
47.5°	14846.4	14772.8	15037.7	15292.7	15332.0	15160.3	15204.5	15332.0	15027.9	14640.4	14763.0
50°	15238.8	15238.8	15415.4	15650.8	15577.2	15356.5	15704.7	15714.5	15410.5	15067.1	15067.1
52.5°	14557.0	14709.1	15209.4	15979.4	16224.6	16288.4	16209.9	15876.4	15081.8	14380.5	14346.1
55°	12683.5	12649.1	13326.0	15091.6	16518.9	17274.2	16273.7	14738.5	13124.9	12335.2	12256.8
57.5°	8249.6	8288.9	9299.2	11099.3	13674.2	15081.8	13394.6	11236.6	9299.2	8210.4	8313.4
60°	3712.8	3845.3	4458.3	5802.2	8014.2	9161.9	8033.8	6096.5	4679.0	4061.1	4115.0
62.5°	2133.5	2158.1	2182.6	2589.7	3413.6	4036.5	3546.1	2736.8	2413.1	2305.2	2305.2
65°	1800.0	1785.3	1790.2	1824.5	1912.8	2040.3	1986.4	1912.8	1922.6	1912.8	1898.1
67.5°	1530.3	1549.9	1535.2	1559.7	1564.6	1584.2	1618.5	1648.0	1652.9	1662.7	1652.9
70°	1255.6	1260.5	1270.3	1289.9	1294.8	1309.5	1358.6	1383.1	1397.8	1397.8	1417.4
72.5°	961.3	956.4	966.2	985.8	1010.4	1015.3	1059.4	1093.7	1113.4	1088.8	1093.7
75°	632.7	637.6	652.3	667.0	701.4	735.7	750.4	784.7	789.7	799.5	774.9
77.5°	377.7	387.5	402.2	431.6	461.0	490.5	524.8	549.3	559.1	549.3	519.9
80°	245.2	245.2	264.9	289.4	323.7	348.2	367.8	387.5	402.2	387.5	377.7
82.5°	152.0	152.0	176.6	206.0	230.5	245.2	274.7	299.2	313.9	304.1	289.4
85°	78.5	83.4	103.0	127.5	147.1	156.9	152.0	137.3	122.6	117.7	107.9
87.5°	24.5	24.5	29.4	29.4	24.5	24.5	29.4	24.5	29.4	29.4	29.4
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)