

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: P532280

Luminaire Tested: **GALN-SA7C-827-U-5NQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532280
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-SA7C-827-U-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 1050mA 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: 32424 lumens
Efficiency: N/A
Efficacy: 86.0 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

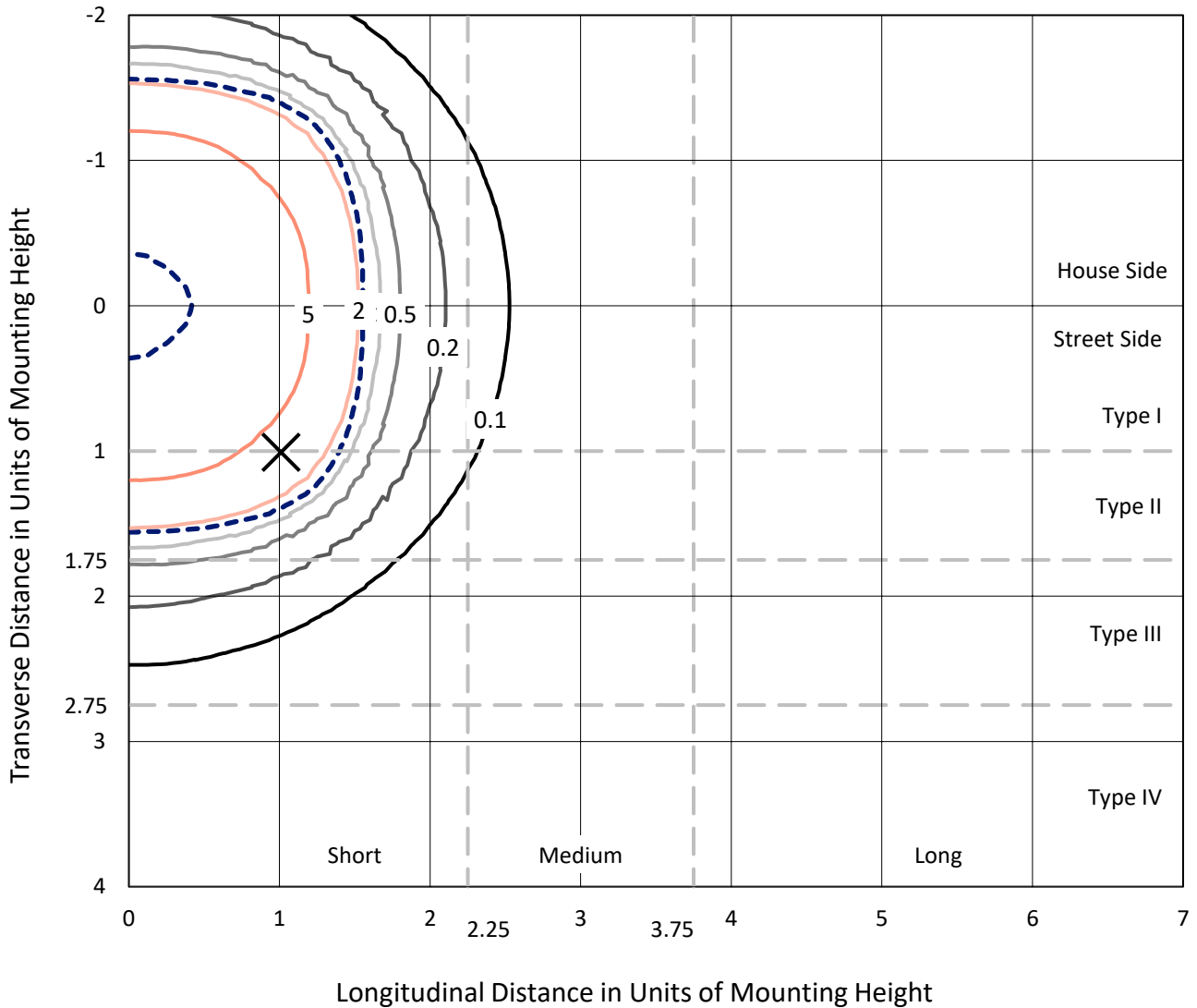
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

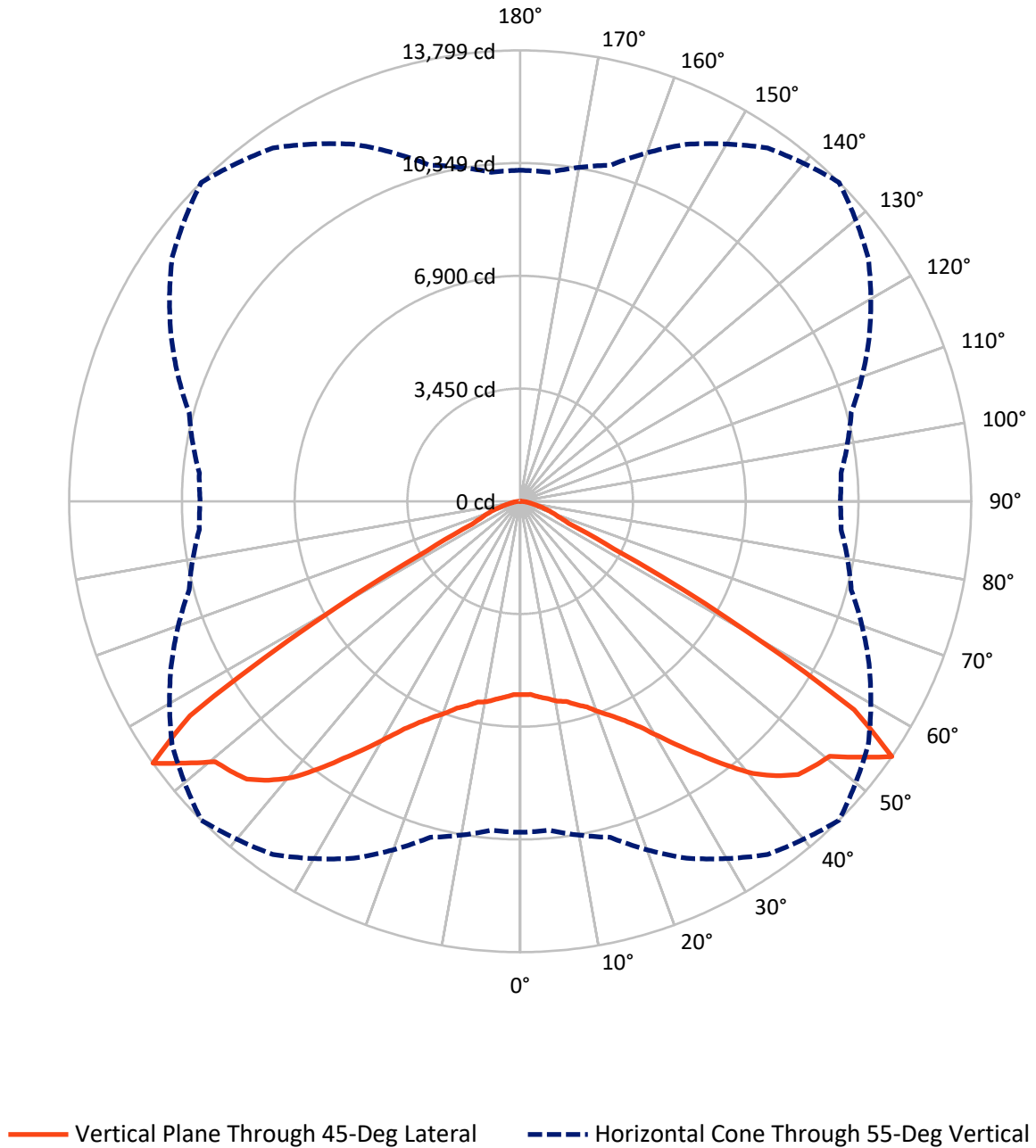
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 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	16212.0	0.0	16212.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16212.0	0.0	16212.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	32424.0	0.0	32424.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	578.3	1.8
10°-20°	1832.5	5.7
20°-30°	3417.0	10.5
30°-40°	5721.2	17.6
40°-50°	8902.6	27.5
50°-60°	9243.7	28.5
60°-70°	1960.3	6.0
70°-80°	645.6	2.0
80°-90°	123.0	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°	32424.0	100.0
0°-180°	32424.0	100.0



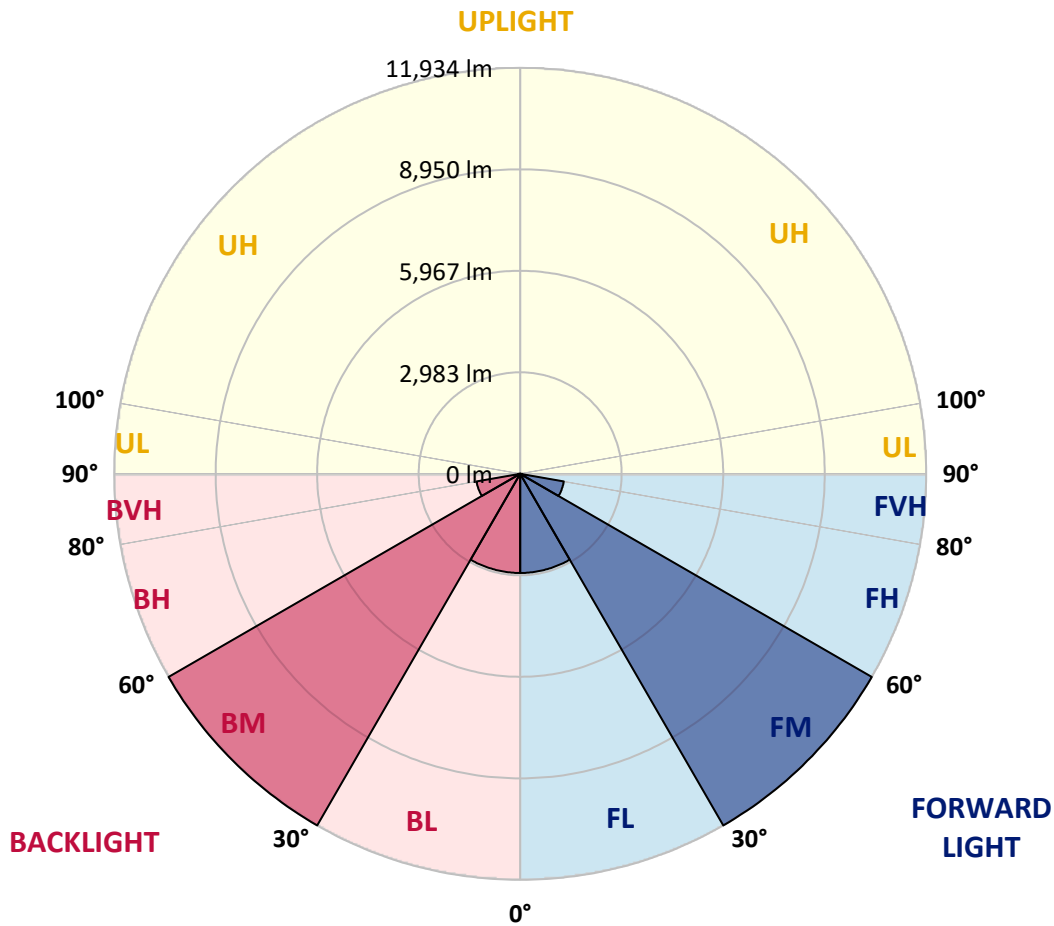
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2913.9	9.0			
FM (30°-60°)	11933.7	36.8			
FH (60°-80°)	1302.9	4.0			G1/1800
FVH (80°-90°)	61.5	0.2			G1/100
BL (0°-30°)	2913.9	9.0	B4/5000		
BM (30°-60°)	11933.7	36.8	B5		
BH (60°-80°)	1302.9	4.0	B3/2500		G1/1800
BVH (80°-90°)	61.5	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°	5920.1	5920.1	5920.1	5920.1	5920.1	5920.1	5920.1	5920.1	5920.1	5920.1	5920.1
2.5°	5990.7	5963.2	5916.2	5951.5	5978.9	5920.1	5943.6	5955.4	5947.6	5916.2	5928.0
5°	6076.9	6061.2	6022.0	6049.4	6014.2	6014.2	5990.7	5959.3	6006.3	5998.5	6018.1
7.5°	6076.9	6057.3	6135.6	6084.7	6100.4	6100.4	6061.2	6029.8	6053.4	6018.1	5998.5
10°	6198.3	6225.7	6190.5	6202.2	6194.4	6221.8	6163.1	6143.5	6123.9	6112.1	6088.6
12.5°	6343.3	6323.7	6335.4	6327.6	6355.0	6284.5	6249.3	6206.2	6241.4	6190.5	6225.7
15°	6460.8	6449.1	6460.8	6492.2	6464.7	6460.8	6398.1	6355.0	6300.2	6311.9	6257.1
17.5°	6621.5	6609.7	6613.6	6641.1	6637.1	6617.5	6570.5	6488.3	6468.7	6437.3	6402.1
20°	6860.5	6840.9	6833.0	6844.8	6864.4	6880.1	6786.0	6754.7	6688.1	6637.1	6578.4
22.5°	7064.2	7056.4	7087.7	7036.8	7079.9	7126.9	7036.8	7021.1	6856.5	6829.1	6766.4
25°	7346.3	7334.5	7315.0	7389.4	7440.3	7436.4	7350.2	7264.0	7138.6	7107.3	7107.3
27.5°	7644.1	7577.5	7679.3	7698.9	7789.0	7816.5	7742.0	7616.6	7499.1	7432.5	7448.2
30°	8016.3	7953.6	7977.1	8118.2	8235.7	8337.6	8149.5	7965.3	7800.8	7683.3	7663.7
32.5°	8388.5	8325.8	8396.3	8533.5	8768.5	8921.3	8737.2	8415.9	8223.9	8051.5	8086.8
35°	8690.2	8737.2	8850.8	9058.5	9301.4	9548.2	9254.4	9007.5	8733.3	8541.3	8568.7
37.5°	9176.0	9321.0	9411.1	9650.1	9994.9	10249.6	9944.0	9622.7	9328.8	9078.1	8991.9
40°	9810.7	9908.7	10010.6	10292.7	10700.1	10954.8	10664.9	10245.6	9955.7	9697.1	9685.4
42.5°	10508.1	10602.2	10708.0	11052.8	11295.7	11487.7	11221.2	10997.9	10676.6	10472.9	10461.1
45°	11319.2	11252.6	11370.1	11597.4	11801.1	11926.5	11754.1	11644.4	11413.2	11225.1	11205.6
47.5°	11859.9	11801.1	12012.7	12216.4	12247.8	12110.6	12145.9	12247.8	12004.8	11695.3	11793.3
50°	12173.3	12173.3	12314.4	12502.4	12443.7	12267.3	12545.5	12553.4	12310.4	12036.2	12036.2
52.5°	11628.7	11750.2	12149.8	12764.9	12960.8	13011.8	12949.1	12682.7	12047.9	11487.7	11460.2
55°	10132.0	10104.6	10645.3	12055.8	13195.9	13799.3	13000.0	11773.7	10484.6	9853.8	9791.1
57.5°	6590.1	6621.5	7428.6	8866.5	10923.5	12047.9	10700.1	8976.2	7428.6	6558.8	6641.1
60°	2965.9	3071.7	3561.5	4635.0	6402.1	7318.9	6417.7	4870.1	3737.8	3244.1	3287.2
62.5°	1704.3	1723.9	1743.5	2068.7	2726.9	3224.5	2832.7	2186.3	1927.7	1841.5	1841.5
65°	1437.9	1426.2	1430.1	1457.5	1528.0	1629.9	1586.8	1528.0	1535.9	1528.0	1516.3
67.5°	1222.4	1238.1	1226.3	1245.9	1249.9	1265.5	1292.9	1316.5	1320.4	1328.2	1320.4
70°	1003.0	1006.9	1014.8	1030.4	1034.4	1046.1	1085.3	1104.9	1116.6	1116.6	1132.3
72.5°	767.9	764.0	771.9	787.5	807.1	811.0	846.3	873.7	889.4	869.8	873.7
75°	505.4	509.3	521.1	532.9	560.3	587.7	599.5	626.9	630.8	638.6	619.0
77.5°	301.7	309.5	321.3	344.8	368.3	391.8	419.2	438.8	446.7	438.8	415.3
80°	195.9	195.9	211.6	231.2	258.6	278.2	293.9	309.5	321.3	309.5	301.7
82.5°	121.5	121.5	141.0	164.6	184.1	195.9	219.4	239.0	250.8	242.9	231.2
85°	62.7	66.6	82.3	101.9	117.5	125.4	121.5	109.7	98.0	94.0	86.2
87.5°	19.6	19.6	23.5	23.5	19.6	19.6	23.5	19.6	23.5	23.5	23.5
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)