

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: P456383

Luminaire Tested: **GALN-SA7C-827-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456383
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7C-827-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35934 lumens
Efficiency: N/A
Efficacy: 95.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

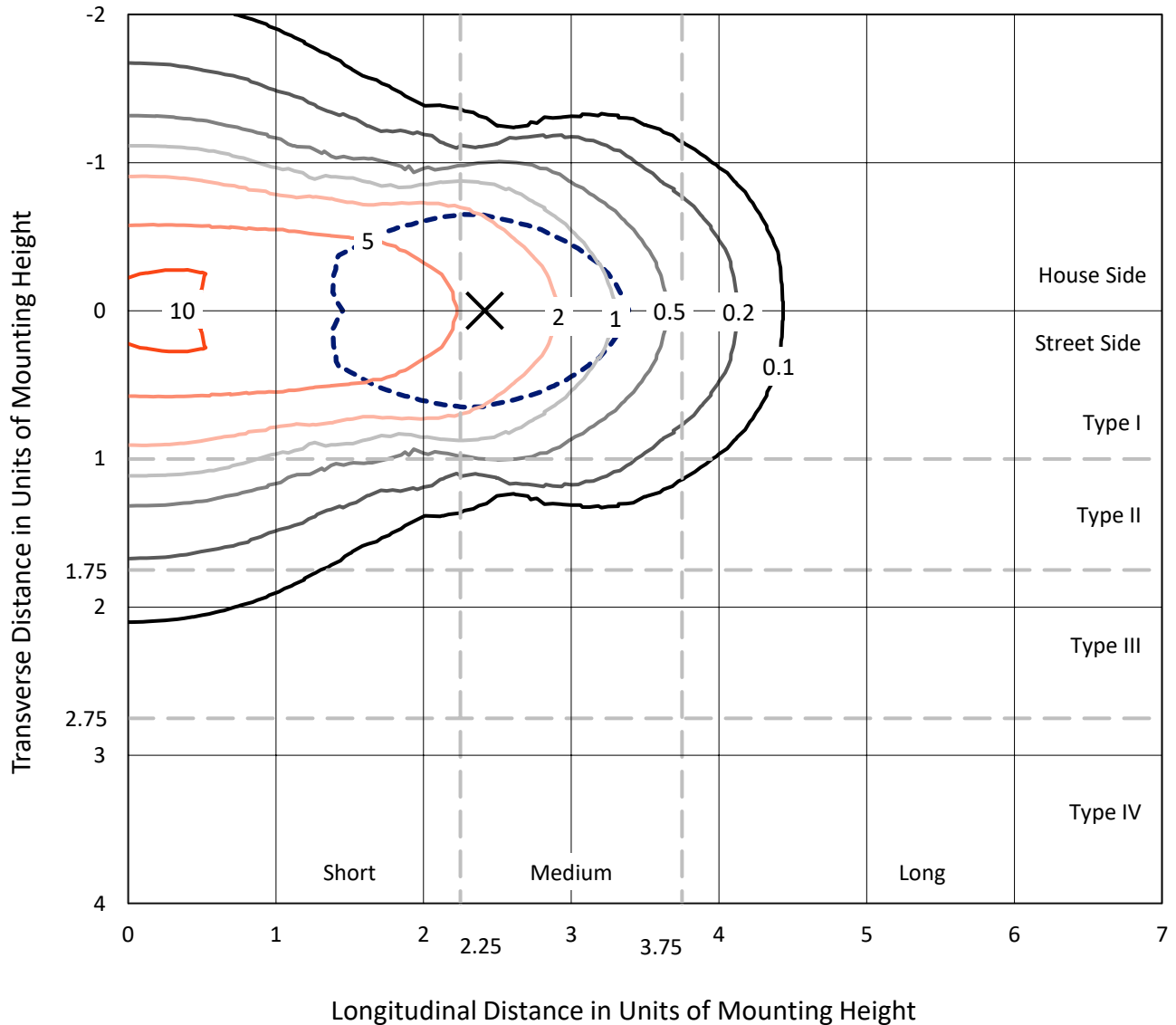
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

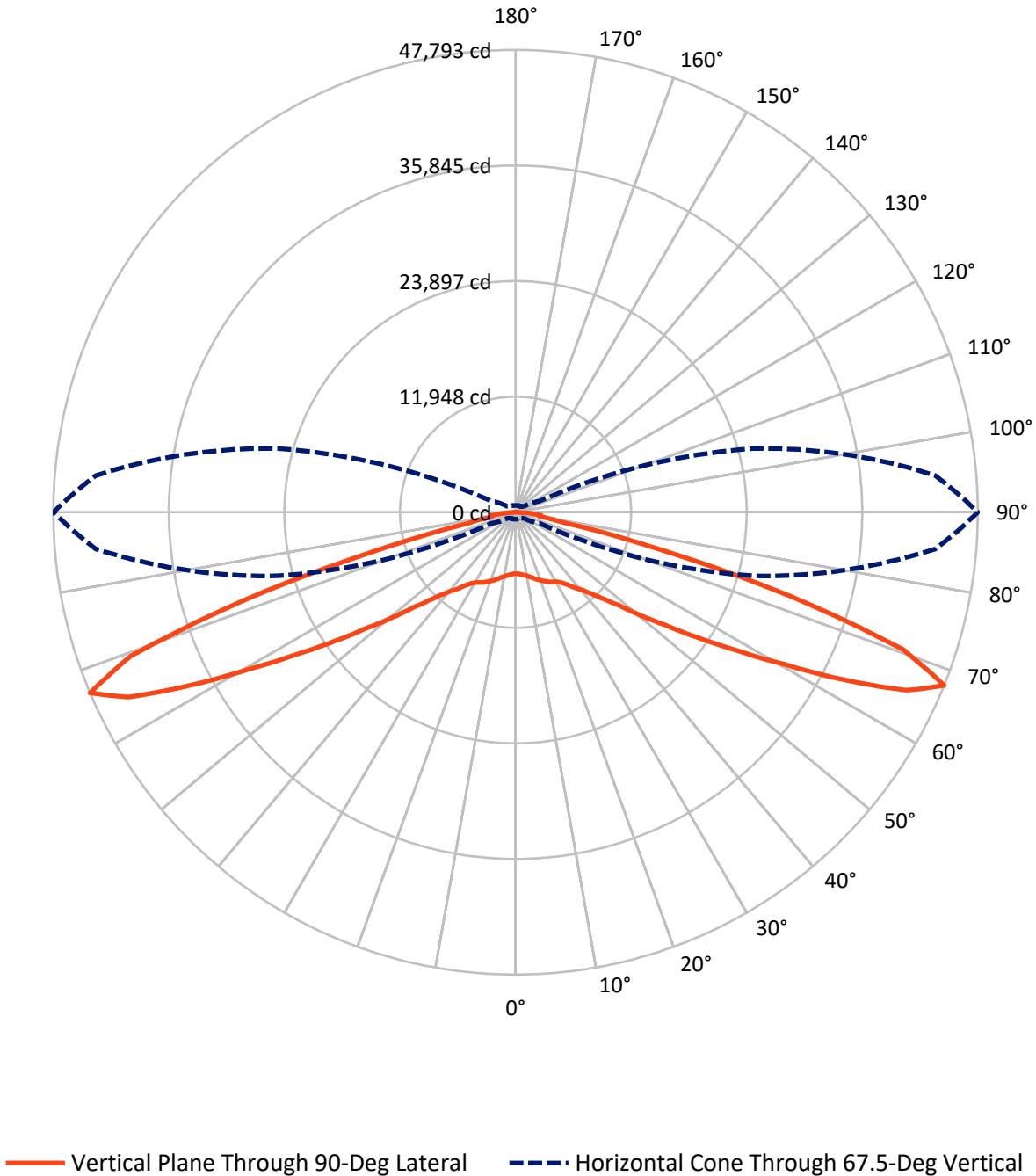
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17967.0	0.0	17967.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17967.0	0.0	17967.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	35934.0	0.0	35934.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	634.2	1.8
10°-20°	2029.2	5.6
20°-30°	3396.4	9.5
30°-40°	4601.2	12.8
40°-50°	5828.2	16.2
50°-60°	7280.9	20.3
60°-70°	8558.3	23.8
70°-80°	3273.9	9.1
80°-90°	331.7	0.9
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°	35934.0	100.0
0°-180°	35934.0	100.0



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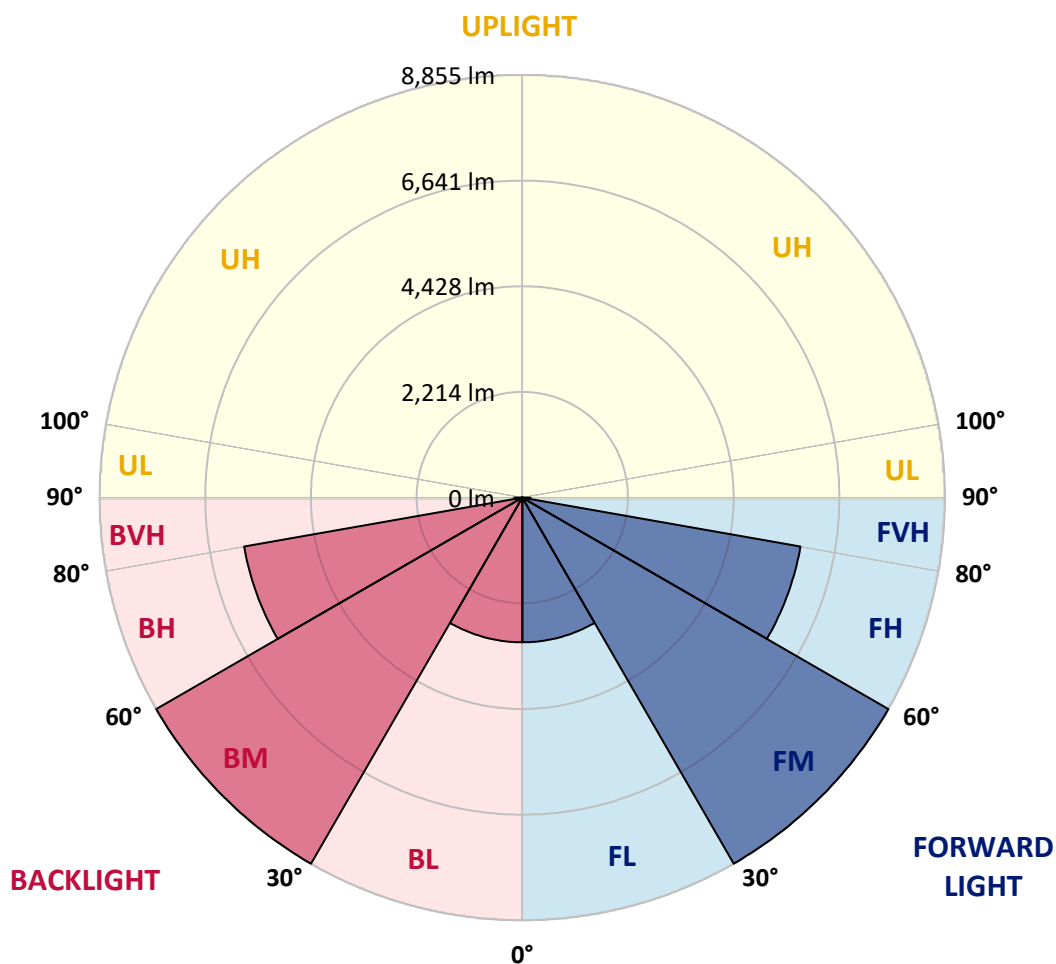
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3029.9	8.4			
FM (30°-60°)	8855.1	24.6			
FH (60°-80°)	5916.1	16.5			G3/7500
FVH (80°-90°)	165.8	0.5			G2/225
BL (0°-30°)	3029.9	8.4	B4/5000		
BM (30°-60°)	8855.1	24.6	B5		
BH (60°-80°)	5916.1	16.5	B5		G5
BVH (80°-90°)	165.8	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6361.4	6361.4	6361.4	6361.4	6361.4	6361.4	6361.4	6361.4	6361.4	6361.4	6361.4
2.5°	6443.0	6439.0	6441.0	6439.0	6445.0	6441.0	6417.2	6397.3	6381.3	6383.3	6377.4
5°	6580.3	6582.3	6584.3	6574.3	6588.3	6580.3	6542.5	6510.7	6478.8	6466.9	6462.9
7.5°	6693.7	6703.7	6709.7	6719.6	6743.5	6743.5	6723.6	6677.8	6608.2	6568.4	6566.4
10°	6807.2	6815.1	6833.0	6864.9	6904.7	6942.5	6934.5	6872.8	6783.3	6715.6	6699.7
12.5°	6847.0	6856.9	6916.6	7008.1	7097.7	7171.3	7171.3	7121.5	7006.1	6902.7	6872.8
15°	6707.7	6725.6	6833.0	7028.0	7262.8	7424.0	7459.8	7390.2	7266.8	7107.6	7071.8
17.5°	6431.1	6474.9	6632.1	6920.6	7310.6	7644.9	7748.3	7714.5	7555.3	7352.4	7310.6
20°	6134.6	6182.4	6349.5	6731.5	7270.8	7774.2	8074.7	8082.6	7885.6	7591.1	7529.5
22.5°	5808.3	5844.1	6059.0	6506.7	7151.4	7804.1	8355.2	8492.5	8225.9	7829.9	7742.4
25°	5442.1	5481.9	5706.8	6190.3	6926.5	7770.2	8611.9	8914.4	8582.1	8084.6	7973.2
27.5°	5091.9	5107.9	5348.6	5840.1	6630.1	7682.7	8800.9	9302.4	8976.1	8295.5	8154.3
30°	4755.7	4793.5	5006.4	5491.9	6289.8	7511.5	8964.1	9744.1	9399.9	8516.4	8335.3
32.5°	4399.5	4445.2	4676.1	5167.5	5949.5	7254.9	9063.6	10227.6	9990.9	8874.6	8681.6
35°	4057.2	4087.1	4319.9	4797.4	5617.2	6956.4	9081.5	10772.9	10753.0	9417.8	9161.1
37.5°	3707.0	3750.8	3985.6	4443.3	5265.0	6640.0	8992.0	11351.9	11672.3	10171.9	9895.3
40°	3370.7	3408.6	3639.4	4101.0	4865.1	6254.0	8779.1	11881.2	12744.8	10948.0	10556.0
42.5°	3004.6	3014.6	3267.3	3736.9	4473.1	5806.3	8472.6	12352.8	13940.6	11988.6	11501.1
45°	2588.7	2614.6	2849.4	3311.1	4023.4	5304.8	8056.8	12742.8	15456.9	13431.2	12766.6
47.5°	2172.9	2194.8	2409.7	2865.3	3531.9	4729.8	7416.0	13085.0	17012.9	15263.9	14392.3
50°	1767.0	1778.9	1954.0	2357.9	2978.8	4124.9	6622.1	13194.5	18771.9	17858.6	16746.3
52.5°	1396.8	1414.8	1548.1	1864.5	2387.8	3410.5	5764.5	12923.8	20825.4	20934.8	19366.9
55°	1132.2	1138.2	1237.7	1470.5	1866.4	2662.4	4729.8	12169.7	23034.1	24876.7	22876.9
57.5°	975.0	979.0	1034.7	1164.0	1436.6	2007.7	3669.2	10743.0	25017.9	29495.0	26924.2
60°	885.5	887.5	919.3	994.9	1138.2	1540.1	2628.5	8729.3	26975.9	34634.7	31954.4
62.5°	829.8	829.8	851.6	893.4	963.1	1181.9	1904.3	6297.8	28317.0	39850.0	38154.7
65°	776.0	776.0	791.9	821.8	859.6	967.0	1406.8	4107.0	28283.2	43648.6	44390.8
67.5°	714.3	714.3	726.3	756.1	778.0	831.7	1086.4	2690.2	25406.0	43565.0	47793.4
70°	640.7	640.7	656.6	682.5	700.4	734.2	857.6	1840.6	18664.5	37197.6	42504.4
72.5°	567.1	569.1	579.0	604.9	618.8	638.7	712.4	1289.4	11449.4	25328.3	29719.9
75°	485.5	489.5	499.4	525.3	537.2	545.2	600.9	919.3	5792.3	13656.1	15548.4
77.5°	392.0	400.0	405.9	433.8	441.7	453.7	495.5	664.6	2543.0	4906.9	4950.7
80°	286.5	296.5	314.4	340.3	346.2	354.2	378.1	471.6	1152.1	2240.5	2433.5
82.5°	210.9	224.8	203.0	236.8	236.8	226.8	266.6	316.4	529.3	2218.6	2654.4
85°	115.4	117.4	105.5	121.4	129.3	127.3	141.3	155.2	256.7	1480.4	1526.2
87.5°	27.9	29.8	31.8	37.8	45.8	45.8	49.7	43.8	83.6	479.5	274.6
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)