

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: P455078

Luminaire Tested: **GALN-SA6B-727-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455078
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-SA6B-727-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28169 lumens
Efficiency: N/A
Efficacy: 115.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

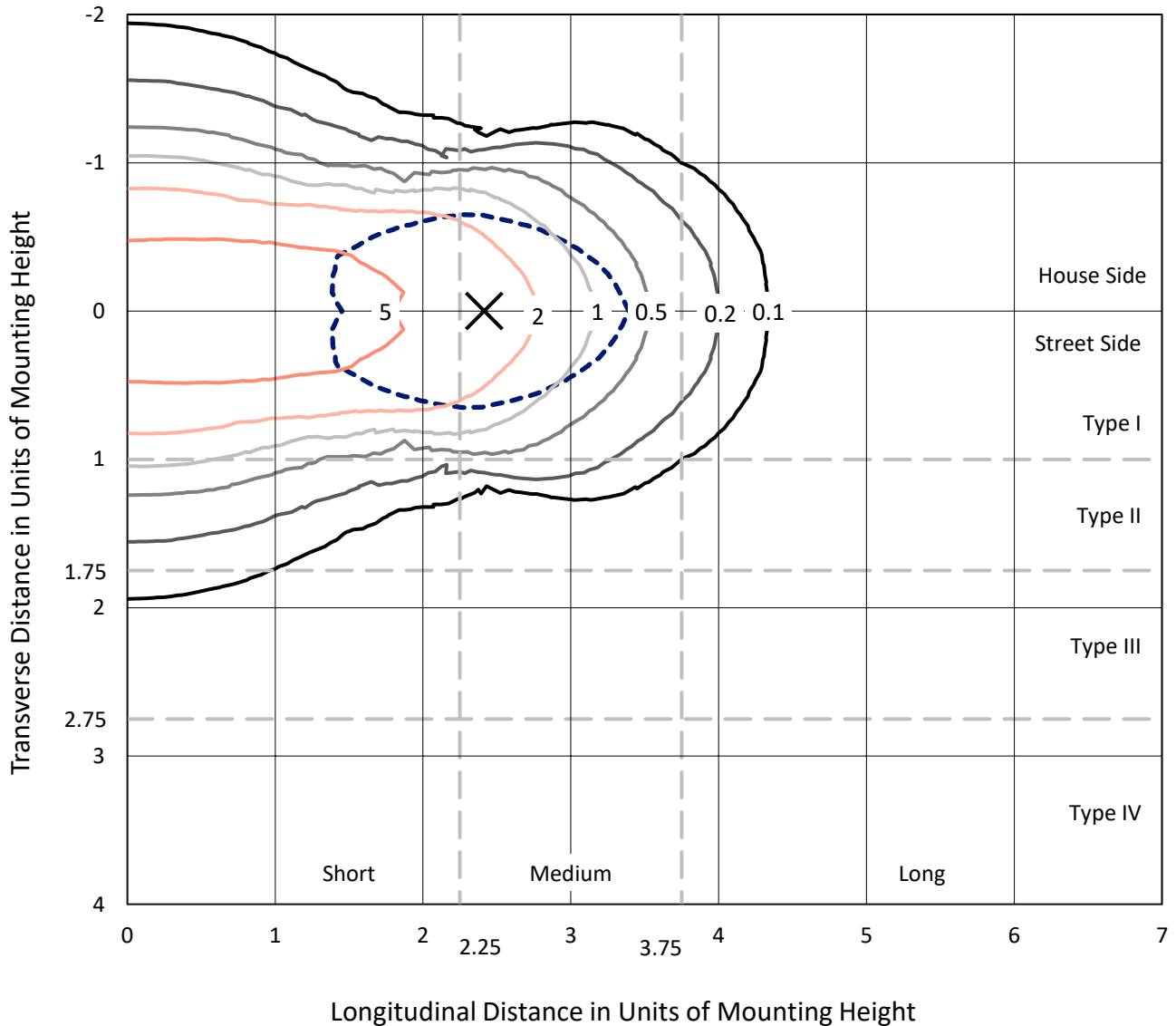
Input Watts (W): 243
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P455078
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Iso-Footcandle Lines of Horizontal Illumination

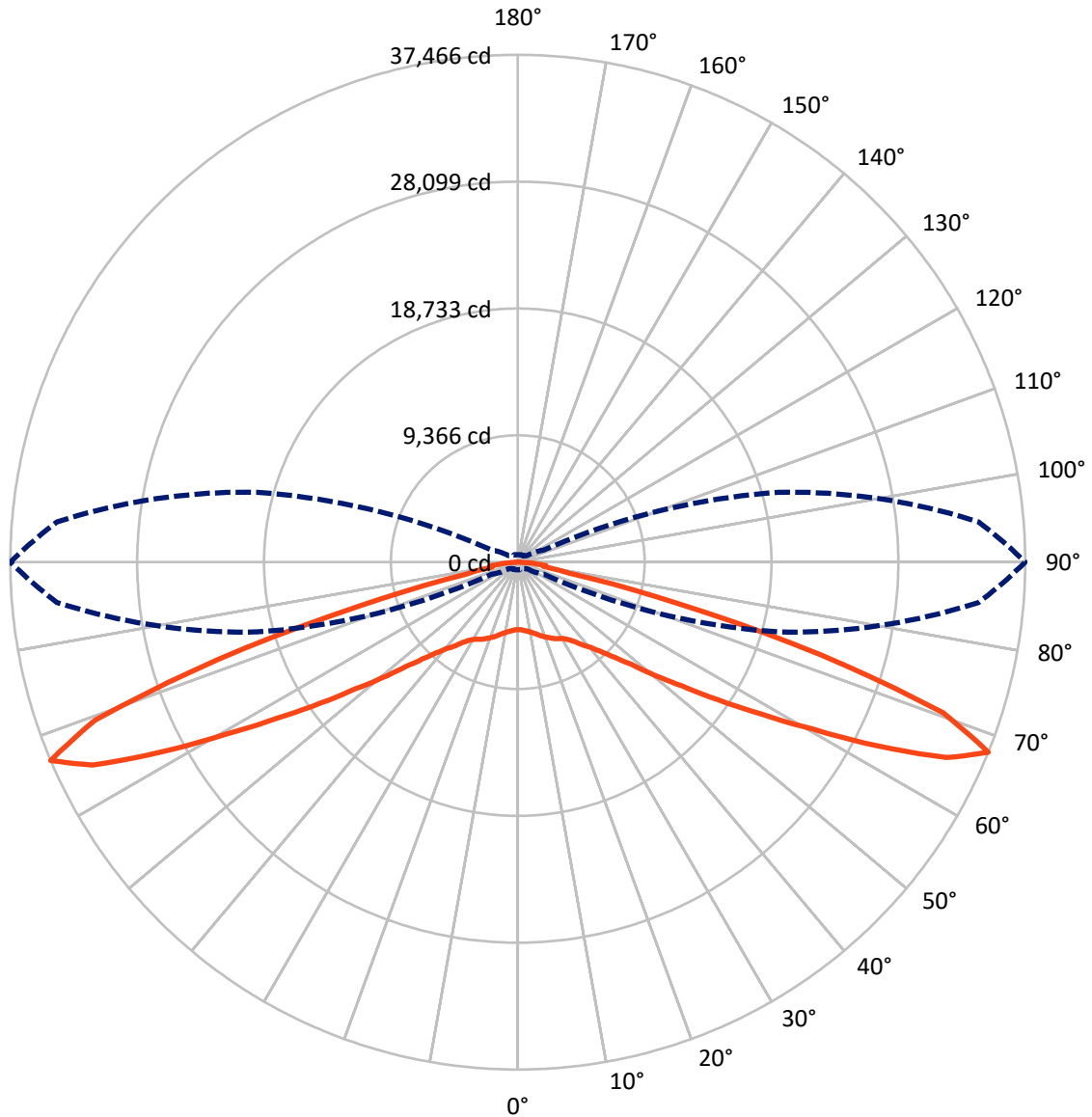
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc
 Type I - Short - N/A

REPORT NUMBER: P455078
CATALOG NUMBER: GALN-SA6B-727-U-T1

Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14084.5	0.0	14084.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14084.5	0.0	14084.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	28169.0	0.0	28169.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	497.2	1.8
10°-20°	1590.7	5.6
20°-30°	2662.4	9.5
30°-40°	3606.9	12.8
40°-50°	4568.8	16.2
50°-60°	5707.5	20.3
60°-70°	6708.9	23.8
70°-80°	2566.5	9.1
80°-90°	260.0	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°	28169.0	100.0
0°-180°	28169.0	100.0

Coefficient of Utilization



REPORT NUMBER: P455078

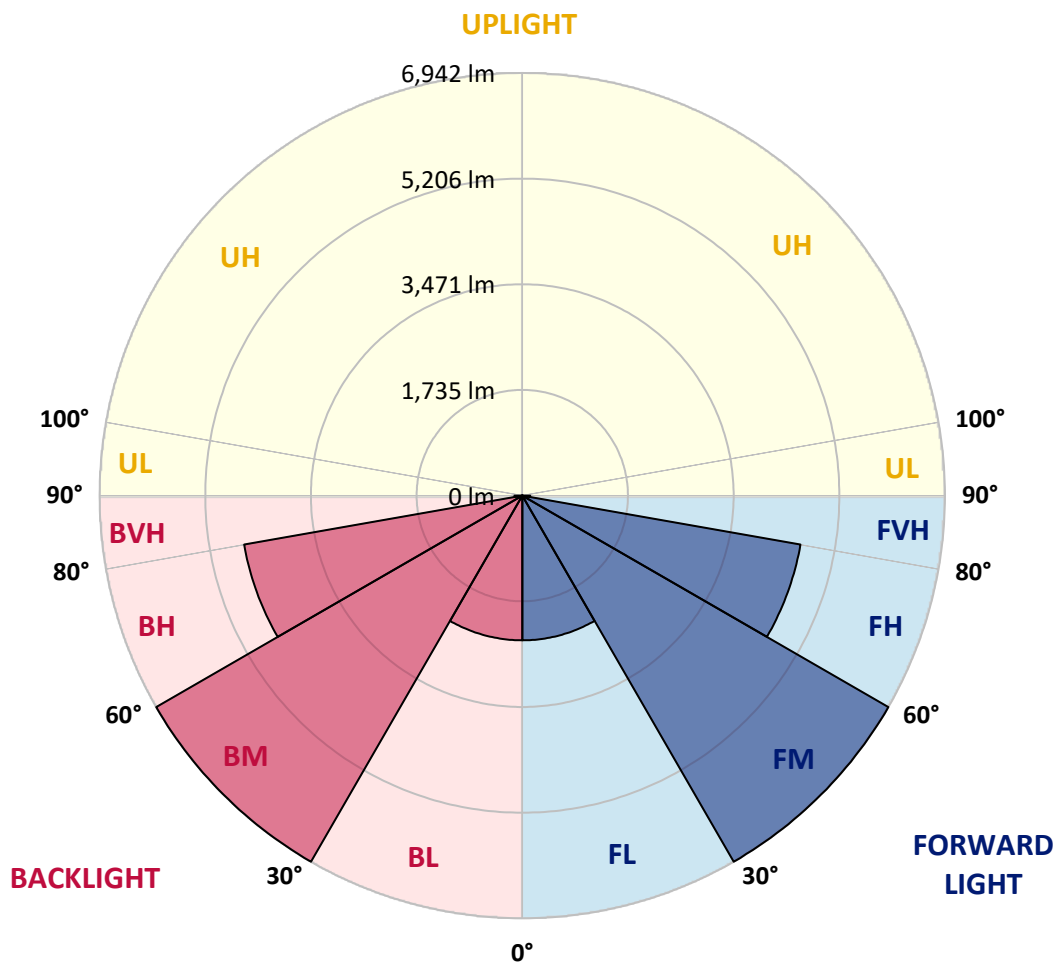
CATALOG NUMBER: GALN-SA6B-727-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2375.2	8.4			
FM	(30°-60°)	6941.6	24.6			
FH	(60°-80°)	4637.7	16.5			G2/5000
FVH	(80°-90°)	130.0	0.5			G2/225
BL	(0°-30°)	2375.2	8.4	B3/2500		
BM	(30°-60°)	6941.6	24.6	B4/8500		
BH	(60°-80°)	4637.7	16.5	B4/5000		G4/5000
BVH	(80°-90°)	130.0	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type I Short





REPORT NUMBER: P455078

CATALOG NUMBER: GALN-SA6B-727-U-T1

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4986.8	4986.8	4986.8	4986.8	4986.8	4986.8	4986.8	4986.8	4986.8	4986.8	4986.8
2.5°	5050.7	5047.6	5049.2	5047.6	5052.3	5049.2	5030.5	5014.9	5002.4	5003.9	4999.3
5°	5158.4	5159.9	5161.5	5153.7	5164.6	5158.4	5128.7	5103.8	5078.8	5069.5	5066.3
7.5°	5247.3	5255.1	5259.8	5267.6	5286.3	5286.3	5270.7	5234.8	5180.2	5149.0	5147.5
10°	5336.2	5342.4	5356.5	5381.4	5412.6	5442.3	5436.0	5387.7	5317.5	5264.4	5252.0
12.5°	5367.4	5375.2	5422.0	5493.7	5563.9	5621.6	5621.6	5582.6	5492.2	5411.1	5387.7
15°	5258.2	5272.2	5356.5	5509.3	5693.4	5819.7	5847.8	5793.2	5696.5	5571.7	5543.7
17.5°	5041.4	5075.7	5198.9	5425.1	5730.8	5992.9	6074.0	6047.5	5922.7	5763.6	5730.8
20°	4809.0	4846.4	4977.4	5276.9	5699.6	6094.3	6329.8	6336.0	6181.6	5950.8	5902.4
22.5°	4553.2	4581.2	4749.7	5100.7	5606.0	6117.7	6549.7	6657.4	6448.4	6137.9	6069.3
25°	4266.1	4297.3	4473.6	4852.6	5429.8	6091.2	6751.0	6988.1	6727.6	6337.6	6250.3
27.5°	3991.6	4004.1	4192.8	4578.1	5197.4	6022.5	6899.1	7292.2	7036.4	6502.9	6392.2
30°	3728.0	3757.6	3924.5	4305.1	4930.6	5888.4	7027.1	7638.5	7368.7	6676.1	6534.1
32.5°	3448.8	3484.7	3665.6	4050.9	4663.9	5687.2	7105.0	8017.5	7831.9	6956.9	6805.6
35°	3180.5	3203.9	3386.4	3760.8	4403.4	5453.2	7119.1	8444.9	8429.3	7382.7	7181.5
37.5°	2906.0	2940.3	3124.3	3483.1	4127.3	5205.2	7048.9	8898.9	9150.0	7973.9	7757.1
40°	2642.4	2672.0	2852.9	3214.8	3813.8	4902.6	6882.0	9313.8	9990.7	8582.2	8274.9
42.5°	2355.3	2363.1	2561.2	2929.4	3506.5	4551.6	6641.8	9683.5	10928.2	9398.0	9015.8
45°	2029.3	2049.6	2233.7	2595.6	3154.0	4158.5	6315.8	9989.2	12116.8	10528.9	10007.9
47.5°	1703.3	1720.5	1889.0	2246.2	2768.7	3707.7	5813.5	10257.5	13336.6	11965.5	11282.3
50°	1385.1	1394.5	1531.8	1848.4	2335.1	3233.5	5191.1	10343.3	14715.5	13999.5	13127.6
52.5°	1095.0	1109.0	1213.6	1461.6	1871.8	2673.6	4518.8	10131.1	16325.2	16411.0	15181.9
55°	887.5	892.2	970.2	1152.7	1463.1	2087.1	3707.7	9539.9	18056.6	19501.0	17933.4
57.5°	764.3	767.4	811.1	912.5	1126.2	1573.9	2876.3	8421.5	19611.8	23121.4	21106.1
60°	694.1	695.7	720.6	779.9	892.2	1207.3	2060.5	6843.0	21146.7	27150.5	25049.4
62.5°	650.5	650.5	667.6	700.4	755.0	926.5	1492.8	4936.9	22198.0	31238.8	29909.8
65°	608.3	608.3	620.8	644.2	673.8	758.1	1102.8	3219.5	22171.5	34216.5	34798.3
67.5°	560.0	560.0	569.3	592.7	609.9	652.0	851.7	2108.9	19916.0	34151.0	37465.7
70°	502.3	502.3	514.7	535.0	549.1	575.6	672.3	1442.8	14631.2	29159.5	33319.6
72.5°	444.6	446.1	453.9	474.2	485.1	500.7	558.4	1010.8	8975.3	19855.1	23297.7
75°	380.6	383.7	391.5	411.8	421.2	427.4	471.1	720.6	4540.7	10705.1	12188.5
77.5°	307.3	313.5	318.2	340.0	346.3	355.6	388.4	521.0	1993.5	3846.6	3880.9
80°	224.6	232.4	246.5	266.7	271.4	277.7	296.4	369.7	903.1	1756.4	1907.7
82.5°	165.3	176.3	159.1	185.6	185.6	177.8	209.0	248.0	414.9	1739.2	2080.8
85°	90.5	92.0	82.7	95.1	101.4	99.8	110.7	121.7	201.2	1160.5	1196.4
87.5°	21.8	23.4	25.0	29.6	35.9	35.9	39.0	34.3	65.5	375.9	215.3
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)