

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: P454980

Luminaire Tested: **GALN-SA6A-827-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454980
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6A-827-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20568 lumens
Efficiency: N/A
Efficacy: 113.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

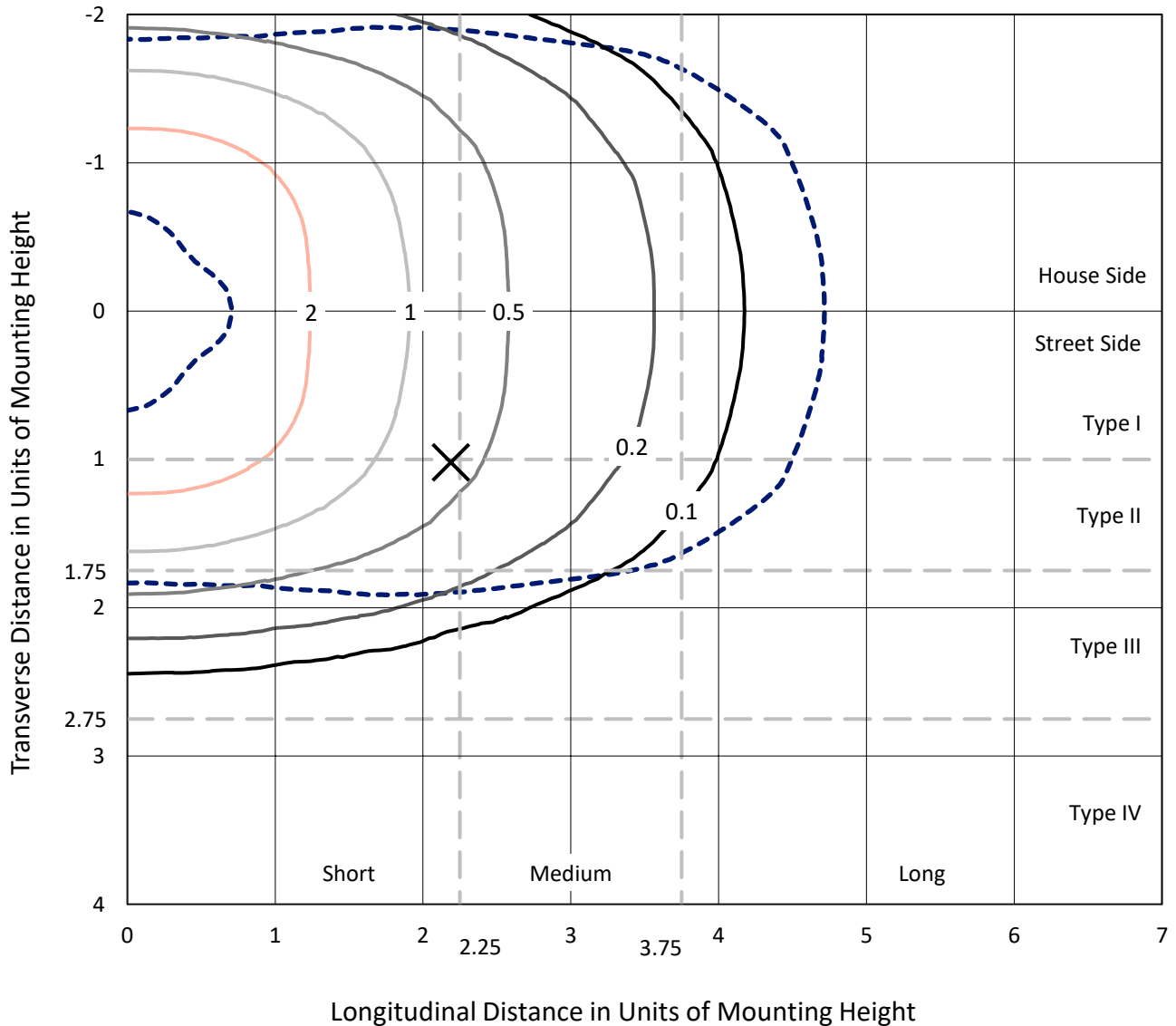
Input Watts (W): 182
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P454980
 CATALOG NUMBER: GALN-SA6A-827-U-RW

Iso-Footcandle Lines of Horizontal Illumination

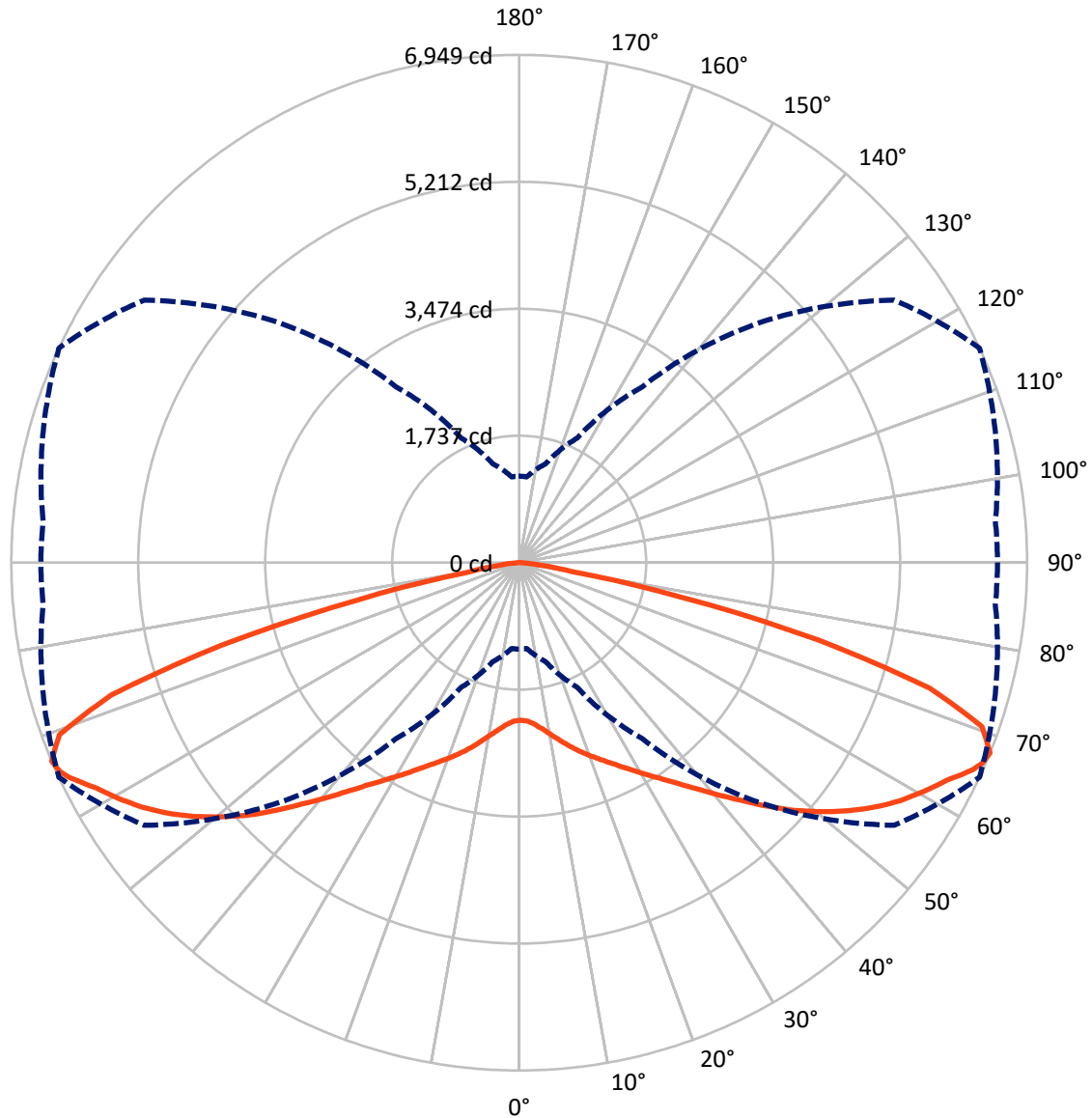
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type III - Short - N/A

REPORT NUMBER: P454980
CATALOG NUMBER: GALN-SA6A-827-U-RW

Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10284.0	0.0	10284.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10284.0	0.0	10284.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	20568.0	0.0	20568.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.5	1.0
10°-20°	711.1	3.5
20°-30°	1391.0	6.8
30°-40°	2365.9	11.5
40°-50°	3744.6	18.2
50°-60°	4965.2	24.1
60°-70°	4683.7	22.8
70°-80°	2315.4	11.3
80°-90°	178.4	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°	20568.0	100.0
0°-180°	20568.0	100.0

Coefficient of Utilization



REPORT NUMBER: P454980

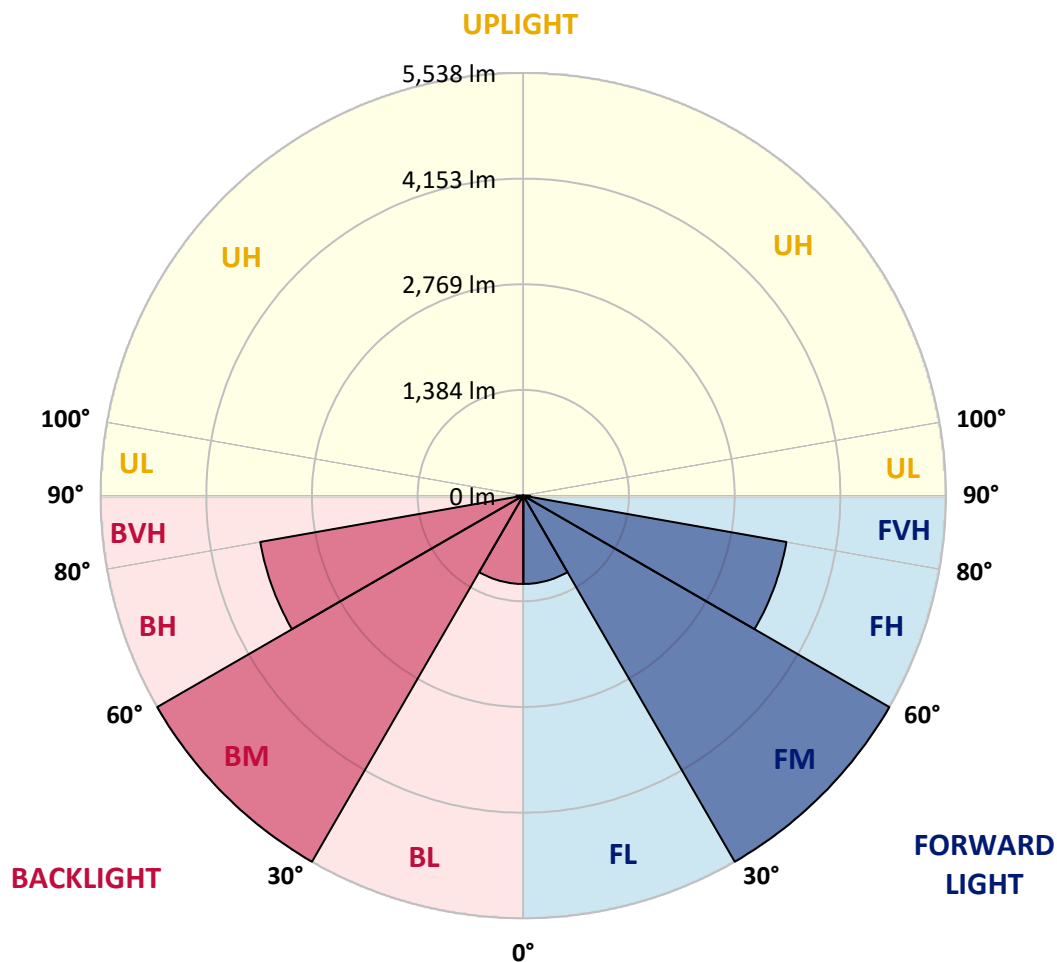
CATALOG NUMBER: GALN-SA6A-827-U-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1157.3	5.6			
FM	(30°-60°)	5537.9	26.9			
FH	(60°-80°)	3499.6	17.0			G2/5000
FVH	(80°-90°)	89.2	0.4			G1/100
BL	(0°-30°)	1157.3	5.6	B3/2500		
BM	(30°-60°)	5537.9	26.9	B4/8500		
BH	(60°-80°)	3499.6	17.0	B4/5000		G4/5000
BVH	(80°-90°)	89.2	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2154.3	2154.3	2154.3	2154.3	2154.3	2154.3	2154.3	2154.3	2154.3	2154.3	2154.3
2.5°	2143.3	2145.5	2147.7	2151.0	2155.4	2162.0	2166.4	2169.7	2178.6	2179.7	2178.6
5°	2135.6	2137.8	2143.3	2153.2	2167.5	2187.4	2202.8	2221.5	2235.9	2245.8	2243.6
7.5°	2134.5	2138.9	2147.7	2168.6	2196.2	2230.4	2265.6	2297.6	2325.1	2347.2	2343.9
10°	2152.1	2157.6	2171.9	2202.8	2245.8	2295.4	2345.0	2392.3	2432.0	2460.7	2470.6
12.5°	2181.9	2186.3	2212.7	2259.0	2320.7	2382.4	2438.6	2497.0	2552.1	2600.6	2600.6
15°	2233.7	2241.4	2274.4	2341.6	2417.7	2489.3	2546.6	2608.3	2667.8	2722.9	2739.5
17.5°	2305.3	2316.3	2365.9	2451.8	2548.8	2614.9	2668.9	2719.6	2771.4	2824.3	2832.0
20°	2403.4	2414.4	2480.5	2584.1	2698.7	2778.0	2814.4	2826.5	2851.9	2902.5	2909.2
22.5°	2536.7	2547.7	2621.5	2738.4	2866.2	2952.1	2967.6	2938.9	2932.3	2972.0	2976.4
25°	2687.7	2697.6	2782.4	2908.1	3040.3	3134.0	3129.5	3059.0	3019.3	3043.6	3050.2
27.5°	2857.4	2871.7	2957.6	3087.7	3230.9	3313.6	3300.3	3197.9	3113.0	3108.6	3110.8
30°	3074.4	3089.9	3171.4	3295.9	3437.0	3513.0	3485.5	3347.7	3216.6	3172.5	3172.5
32.5°	3303.7	3342.2	3424.9	3554.9	3665.1	3720.2	3678.3	3513.0	3338.9	3277.2	3273.9
35°	3602.3	3623.2	3704.8	3831.5	3914.1	3957.1	3876.7	3699.3	3498.7	3426.0	3416.1
37.5°	3894.3	3911.9	4006.7	4127.9	4228.2	4226.0	4116.9	3920.7	3697.0	3615.5	3608.9
40°	4192.9	4211.7	4319.7	4430.9	4531.2	4522.4	4390.2	4170.9	3932.9	3841.4	3859.0
42.5°	4451.9	4472.8	4595.1	4753.8	4844.2	4842.0	4688.8	4442.0	4194.0	4112.5	4127.9
45°	4687.7	4706.4	4848.6	5030.4	5162.6	5179.2	5011.7	4750.5	4496.0	4391.3	4395.7
47.5°	4854.1	4889.4	5038.1	5246.4	5426.0	5484.4	5320.2	5064.6	4771.5	4662.4	4669.0
50°	4980.8	5002.9	5164.8	5401.8	5628.8	5750.0	5617.8	5355.5	5046.9	4931.2	4946.7
52.5°	4996.3	5022.7	5199.0	5472.3	5763.2	5947.2	5882.2	5639.8	5327.9	5208.9	5242.0
55°	4870.6	4886.1	5096.5	5428.2	5816.1	6093.8	6110.3	5904.3	5595.7	5505.4	5527.4
57.5°	4512.5	4552.2	4818.8	5222.2	5743.4	6172.0	6281.1	6144.5	5866.8	5777.5	5812.8
60°	3925.2	3964.8	4232.6	4743.9	5469.0	6135.7	6422.2	6357.2	6112.5	6040.9	6059.6
62.5°	3075.5	3072.2	3403.9	4030.9	4923.5	5957.2	6526.9	6562.1	6355.0	6264.6	6293.2
65°	1993.4	2003.3	2324.0	2999.5	4100.4	5503.1	6550.0	6823.3	6593.0	6456.3	6477.3
66°	1603.3	1633.1	1905.3	2527.9	3680.5	5205.6	6480.6	6900.4	6665.7	6500.4	6510.3
67.5°	1183.5	1178.0	1401.7	1882.1	2938.9	4640.3	6263.5	6948.9	6748.4	6540.1	6544.5
70°	675.5	674.4	753.7	1033.6	1727.9	3267.3	5279.5	6716.4	6915.9	6683.3	6671.2
72.5°	493.7	490.4	501.4	570.8	843.0	1649.6	3642.0	5870.1	6829.9	6660.2	6626.0
75°	414.3	412.1	409.9	418.7	472.7	747.1	1932.8	4222.7	5926.3	6251.4	6216.1
77.5°	338.3	338.3	339.4	337.2	339.4	393.4	801.1	2263.4	3608.9	4028.7	4126.8
80°	264.5	263.4	282.1	274.4	256.8	252.3	354.8	728.4	1197.8	1191.2	982.9
82.5°	195.0	181.8	214.9	209.4	189.5	160.9	207.2	310.8	400.0	260.1	192.8
85°	123.4	122.3	152.1	138.8	115.7	76.0	99.2	133.3	165.3	100.3	81.5
87.5°	22.0	20.9	48.5	35.3	35.3	22.0	27.5	36.4	54.0	37.5	27.5
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)