

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: P455209

Luminaire Tested: **GALN-SA6B-827-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455209
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6B-827-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25961 lumens
Efficiency: N/A
Efficacy: 106.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

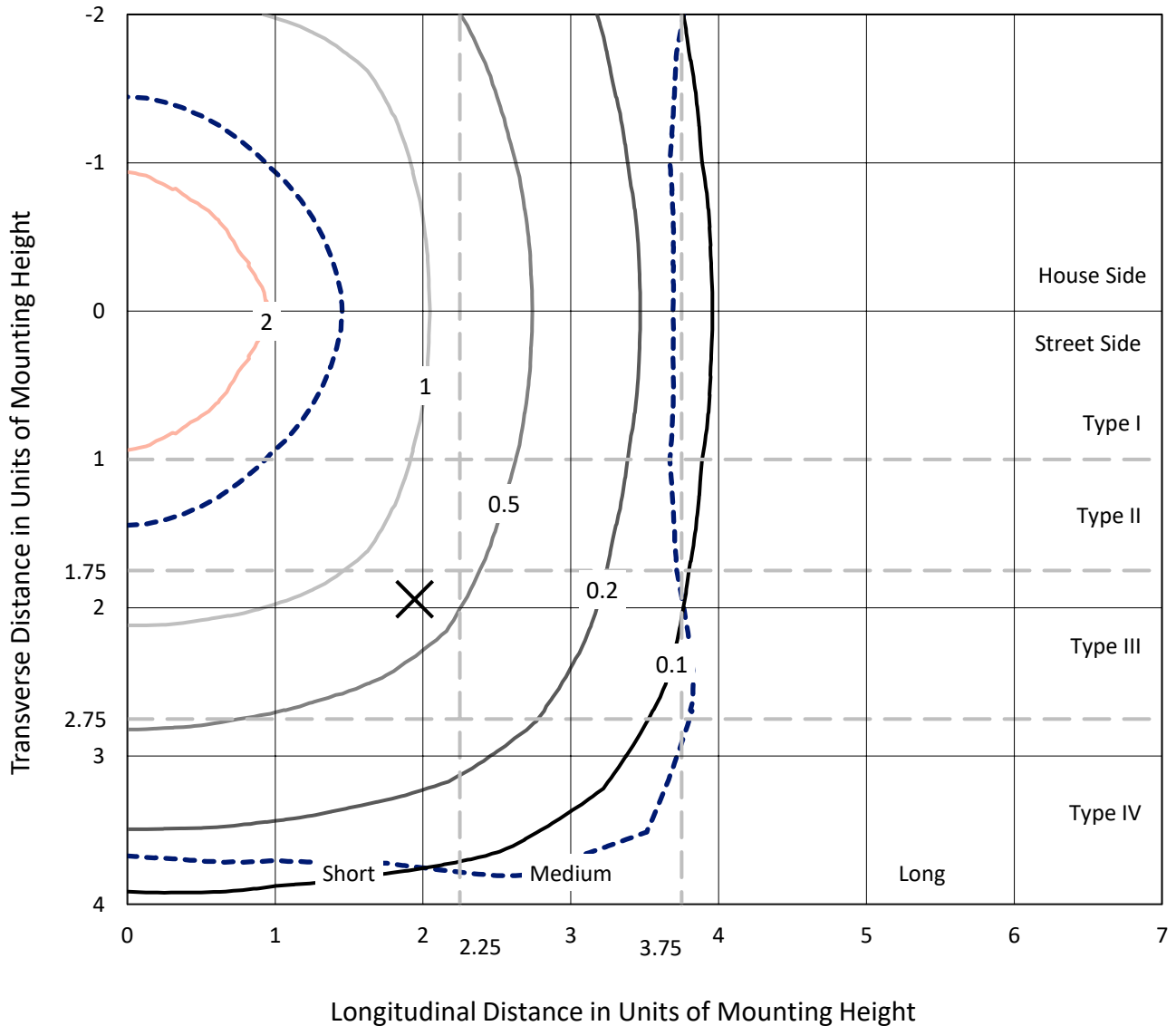
Input Watts (W): 243
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

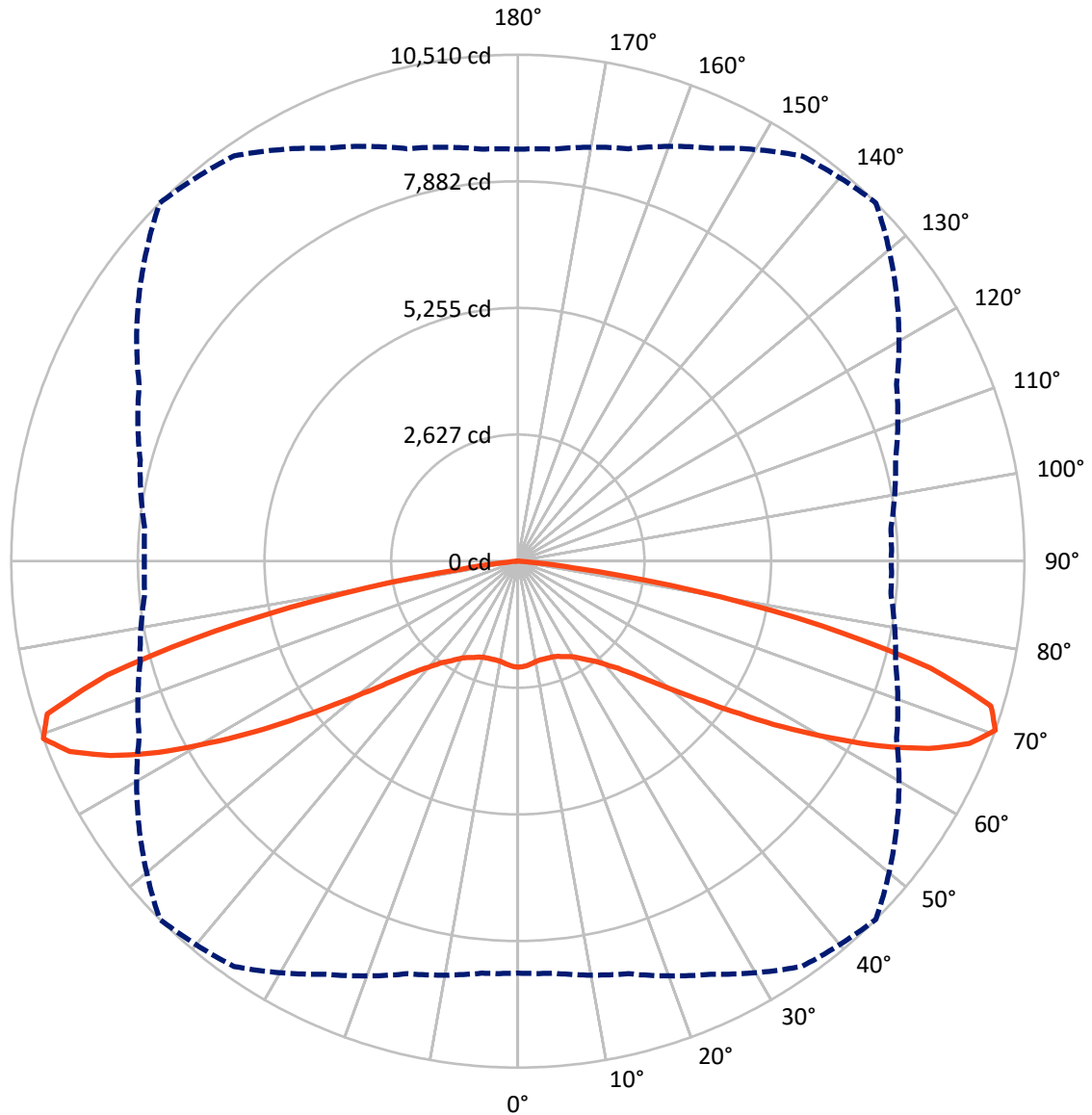
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12980.5	0.0	12980.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12980.5	0.0	12980.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	25961.0	0.0	25961.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.5	0.8
10°-20°	601.8	2.3
20°-30°	1025.2	3.9
30°-40°	1589.1	6.1
40°-50°	2674.7	10.3
50°-60°	4866.5	18.7
60°-70°	8238.8	31.7
70°-80°	6377.2	24.6
80°-90°	382.1	1.5
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°	25961.0	100.0
0°-180°	25961.0	100.0



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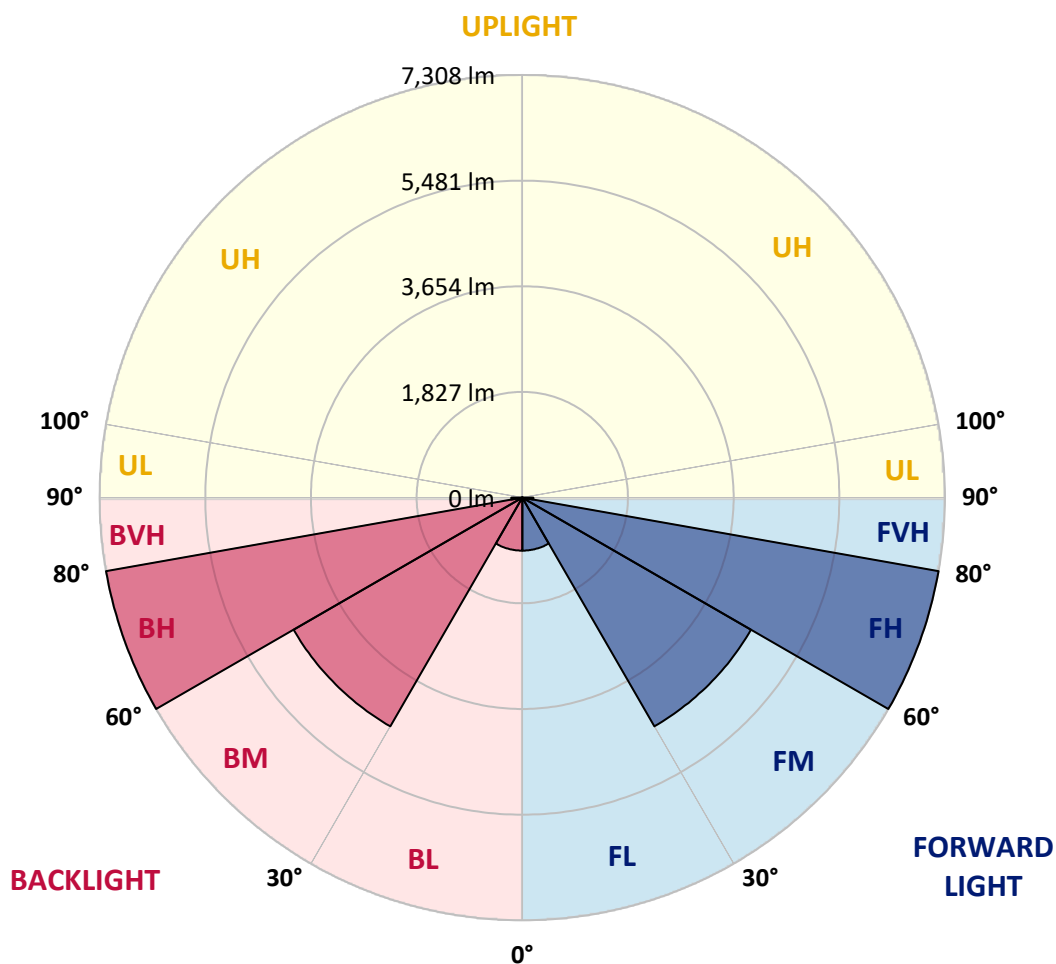
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	916.3	3.5			
FM (30°-60°)	4565.2	17.6			
FH (60°-80°)	7308.0	28.1			G3/7500
FVH (80°-90°)	191.1	0.7			G2/225
BL (0°-30°)	916.3	3.5	B2/1000		
BM (30°-60°)	4565.2	17.6	B3/5000		
BH (60°-80°)	7308.0	28.1	B5		G3/7500
BVH (80°-90°)	191.1	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2197.9	2197.9	2197.9	2197.9	2197.9	2197.9	2197.9	2197.9	2197.9	2197.9	2197.9
2.5°	2192.4	2193.8	2193.8	2191.1	2189.7	2189.7	2188.3	2188.3	2192.4	2193.8	2195.2
5°	2173.2	2173.2	2173.2	2171.9	2169.1	2169.1	2166.4	2166.4	2167.8	2171.9	2169.1
7.5°	2147.2	2149.9	2149.9	2144.4	2140.3	2140.3	2139.0	2140.3	2141.7	2145.8	2144.4
10°	2139.0	2140.3	2133.5	2123.9	2117.0	2112.9	2114.3	2117.0	2123.9	2126.6	2128.0
12.5°	2144.4	2144.4	2132.1	2118.4	2106.1	2100.6	2099.2	2108.8	2121.1	2129.4	2132.1
15°	2151.3	2148.6	2133.5	2115.6	2103.3	2101.9	2100.6	2107.4	2125.2	2141.7	2143.1
17.5°	2155.4	2154.0	2134.8	2112.9	2106.1	2106.1	2104.7	2110.2	2129.4	2149.9	2151.3
20°	2169.1	2165.0	2143.1	2119.8	2114.3	2117.0	2112.9	2119.8	2140.3	2165.0	2170.5
22.5°	2196.5	2192.4	2170.5	2147.2	2144.4	2144.4	2143.1	2149.9	2171.9	2197.9	2202.0
25°	2229.5	2225.3	2204.8	2188.3	2191.1	2196.5	2193.8	2195.2	2213.0	2234.9	2241.8
27.5°	2273.3	2266.5	2248.6	2234.9	2243.2	2243.2	2243.2	2241.8	2252.8	2273.3	2280.2
30°	2326.8	2324.1	2304.9	2303.5	2310.3	2303.5	2303.5	2304.9	2306.2	2325.4	2332.3
32.5°	2396.7	2391.2	2381.6	2378.9	2398.1	2403.6	2384.4	2366.6	2376.2	2395.4	2399.5
35°	2511.9	2503.7	2490.0	2474.9	2490.0	2516.0	2474.9	2461.2	2485.9	2511.9	2514.6
37.5°	2668.2	2664.1	2642.2	2614.7	2613.4	2640.8	2598.3	2596.9	2643.5	2675.1	2679.2
40°	2864.3	2868.4	2841.0	2814.9	2801.2	2823.2	2790.2	2802.6	2847.8	2883.5	2880.7
42.5°	3139.9	3124.8	3082.3	3057.6	3042.5	3034.3	3026.1	3045.3	3096.0	3134.4	3164.6
45°	3462.1	3456.6	3403.1	3373.0	3340.1	3327.7	3325.0	3359.3	3421.0	3467.6	3471.7
47.5°	3826.8	3814.5	3780.2	3748.7	3736.3	3721.2	3707.5	3733.6	3795.3	3828.2	3837.8
50°	4202.5	4205.2	4205.2	4199.8	4212.1	4214.8	4177.8	4187.4	4221.7	4219.0	4216.2
52.5°	4631.7	4646.7	4718.0	4724.9	4783.9	4823.6	4756.4	4716.7	4704.3	4630.3	4635.8
55°	5136.2	5150.0	5256.9	5363.8	5522.9	5590.1	5448.9	5325.5	5237.7	5125.3	5130.8
57.5°	5765.6	5772.4	5873.9	6079.6	6331.9	6489.5	6241.4	5997.3	5819.1	5712.1	5669.6
60°	6442.9	6449.8	6597.9	6848.8	7240.9	7432.9	7125.7	6726.7	6501.9	6338.7	6349.7
62.5°	7256.0	7283.4	7416.4	7761.9	8237.7	8453.0	8045.8	7512.4	7208.0	7005.1	7013.3
65°	8126.7	8173.3	8318.6	8698.4	9137.2	9368.9	8869.8	8254.2	7875.8	7627.6	7653.6
67.5°	8691.6	8732.7	8942.5	9362.1	9909.1	10101.1	9456.7	8739.6	8266.5	7970.4	7915.5
70°	8547.6	8581.9	8861.6	9456.7	10267.0	10509.7	9596.5	8668.3	8111.6	7770.2	7748.2
72.5°	7545.3	7474.0	7882.6	8736.8	9858.4	10265.6	9156.4	7916.9	7216.2	6865.2	6824.1
75°	5000.5	5155.4	5758.7	6765.1	8340.6	8845.1	7815.4	6356.5	5474.9	5182.9	5137.6
77.5°	1671.4	1790.7	2326.8	3835.0	5686.1	6444.3	5694.3	4157.3	2941.1	2369.3	2380.3
80°	442.9	437.4	566.3	1054.4	2457.1	3732.2	2860.2	1408.1	770.6	558.0	529.3
82.5°	159.1	178.2	229.0	292.1	651.3	1160.0	818.6	394.9	289.3	213.9	207.0
85°	69.9	68.6	98.7	116.5	163.2	216.6	192.0	167.3	146.7	97.4	90.5
87.5°	15.1	15.1	23.3	17.8	28.8	28.8	35.6	42.5	43.9	28.8	23.3
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)