

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: P528302

Luminaire Tested: **GALN-SA3B-827-U-5NQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528302
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-SA3B-827-U-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 800mA 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: 11248 lumens
Efficiency: N/A
Efficacy: 93.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

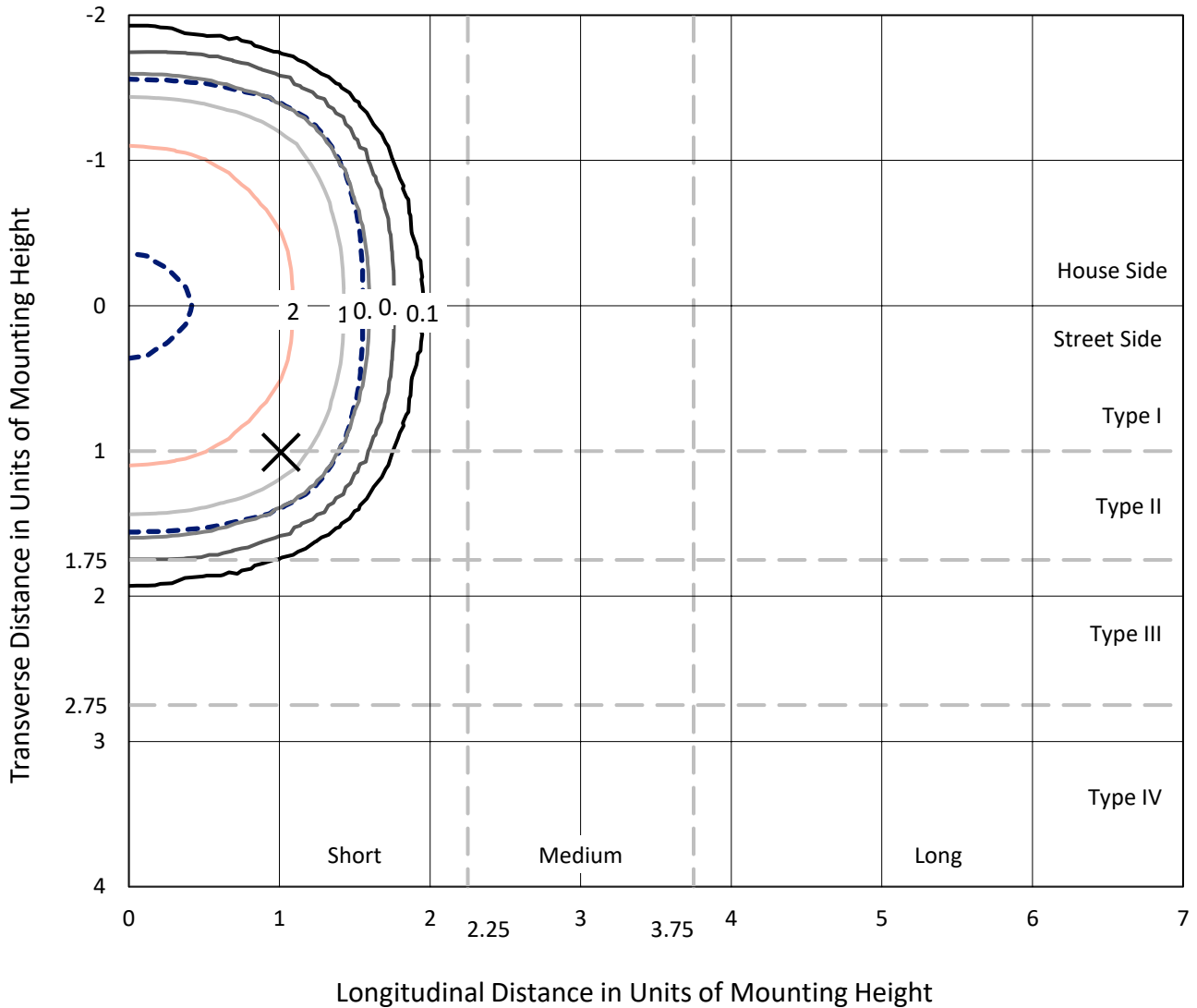
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

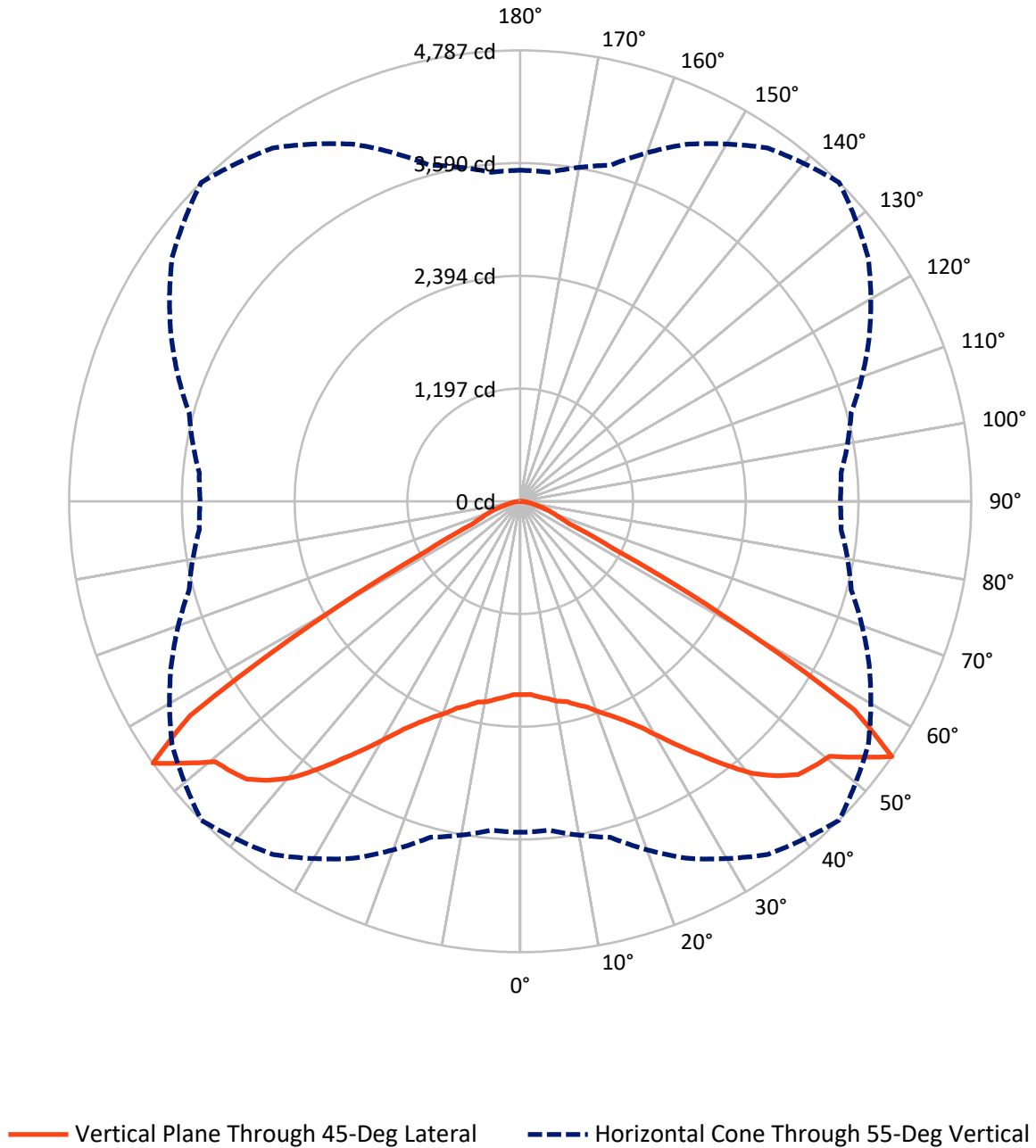
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 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	5624.0	0.0	5624.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5624.0	0.0	5624.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	11248.0	0.0	11248.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.6	1.8
10°-20°	635.7	5.7
20°-30°	1185.4	10.5
30°-40°	1984.7	17.6
40°-50°	3088.3	27.5
50°-60°	3206.7	28.5
60°-70°	680.0	6.0
70°-80°	224.0	2.0
80°-90°	42.7	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°	11248.0	100.0
0°-180°	11248.0	100.0

Coefficient of Utilization



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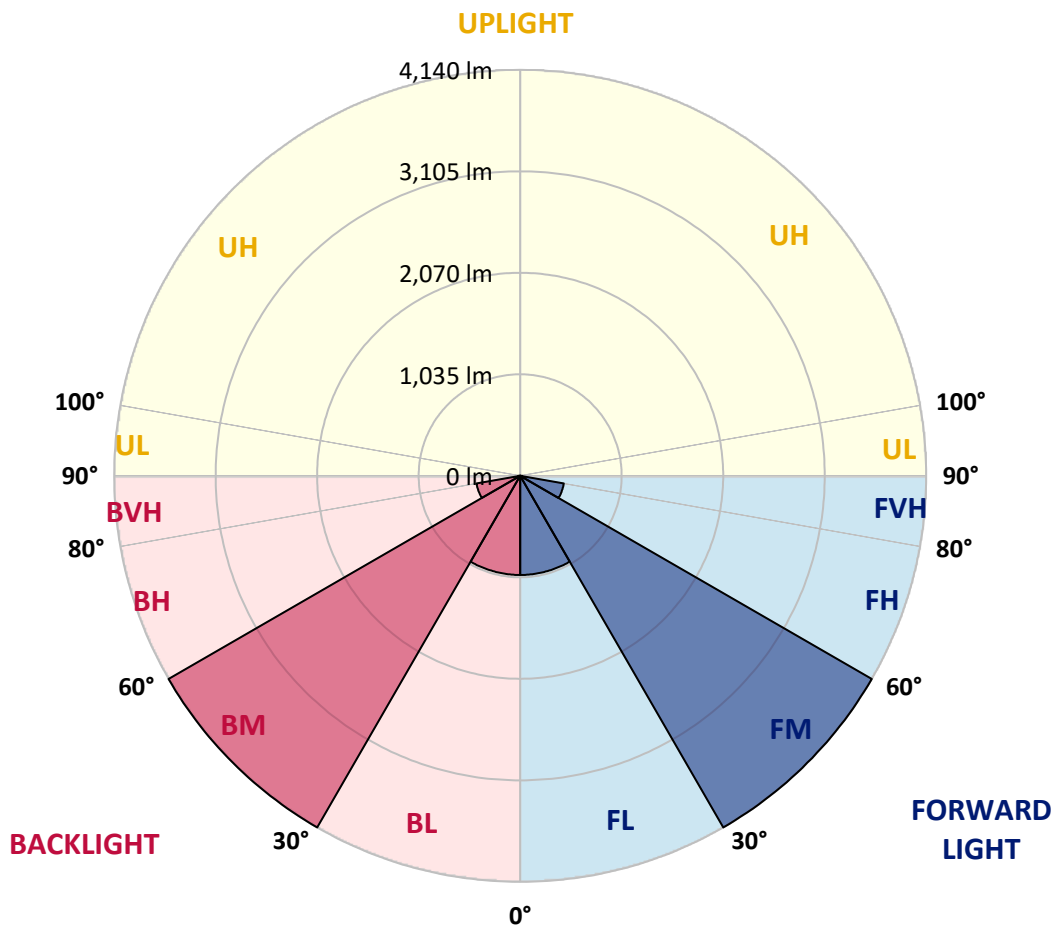
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1010.8	9.0			
FM (30°-60°)	4139.8	36.8			
FH (60°-80°)	452.0	4.0			G0/660
FVH (80°-90°)	21.3	0.2			G1/100
BL (0°-30°)	1010.8	9.0	B3/2500		
BM (30°-60°)	4139.8	36.8	B3/5000		
BH (60°-80°)	452.0	4.0	B1/500		G0/660
BVH (80°-90°)	21.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2053.7	2053.7	2053.7	2053.7	2053.7	2053.7	2053.7	2053.7	2053.7	2053.7	2053.7
2.5°	2078.2	2068.7	2052.4	2064.6	2074.1	2053.7	2061.9	2065.9	2063.2	2052.4	2056.4
5°	2108.1	2102.6	2089.1	2098.6	2086.3	2086.3	2078.2	2067.3	2083.6	2080.9	2087.7
7.5°	2108.1	2101.3	2128.5	2110.8	2116.2	2116.2	2102.6	2091.8	2099.9	2087.7	2080.9
10°	2150.2	2159.7	2147.5	2151.6	2148.9	2158.4	2138.0	2131.2	2124.4	2120.3	2112.2
12.5°	2200.5	2193.7	2197.8	2195.1	2204.6	2180.1	2167.9	2152.9	2165.2	2147.5	2159.7
15°	2241.3	2237.2	2241.3	2252.2	2242.6	2241.3	2219.5	2204.6	2185.6	2189.6	2170.6
17.5°	2297.0	2292.9	2294.3	2303.8	2302.4	2295.7	2279.3	2250.8	2244.0	2233.1	2220.9
20°	2379.9	2373.1	2370.4	2374.5	2381.3	2386.7	2354.1	2343.2	2320.1	2302.4	2282.1
22.5°	2450.6	2447.9	2458.8	2441.1	2456.0	2472.3	2441.1	2435.6	2378.6	2369.0	2347.3
25°	2548.5	2544.4	2537.6	2563.4	2581.1	2579.7	2549.8	2519.9	2476.4	2465.5	2465.5
27.5°	2651.8	2628.6	2664.0	2670.8	2702.0	2711.6	2685.7	2642.2	2601.5	2578.4	2583.8
30°	2780.9	2759.1	2767.3	2816.2	2857.0	2892.3	2827.1	2763.2	2706.1	2665.3	2658.6
32.5°	2910.0	2888.3	2912.7	2960.3	3041.8	3094.8	3031.0	2919.5	2852.9	2793.1	2805.3
35°	3014.7	3031.0	3070.4	3142.4	3226.7	3312.3	3210.4	3124.7	3029.6	2963.0	2972.5
37.5°	3183.2	3233.5	3264.7	3347.7	3467.3	3555.6	3449.6	3338.1	3236.2	3149.2	3119.3
40°	3403.4	3437.4	3472.7	3570.6	3711.9	3800.3	3699.7	3554.2	3453.7	3364.0	3359.9
42.5°	3645.3	3677.9	3714.6	3834.2	3918.5	3985.1	3892.7	3815.2	3703.8	3633.1	3629.0
45°	3926.7	3903.6	3944.3	4023.2	4093.8	4137.3	4077.5	4039.5	3959.3	3894.0	3887.2
47.5°	4114.2	4093.8	4167.2	4237.9	4248.8	4201.2	4213.4	4248.8	4164.5	4057.1	4091.1
50°	4223.0	4223.0	4271.9	4337.1	4316.7	4255.6	4352.1	4354.8	4270.5	4175.4	4175.4
52.5°	4034.0	4076.2	4214.8	4428.2	4496.2	4513.8	4492.1	4399.7	4179.5	3985.1	3975.6
55°	3514.8	3505.3	3692.9	4182.2	4577.7	4787.0	4509.8	4084.3	3637.2	3418.3	3396.6
57.5°	2286.1	2297.0	2577.0	3075.8	3789.4	4179.5	3711.9	3113.9	2577.0	2275.3	2303.8
60°	1028.9	1065.6	1235.5	1607.9	2220.9	2538.9	2226.3	1689.5	1296.7	1125.4	1140.3
62.5°	591.2	598.0	604.8	717.6	946.0	1118.6	982.7	758.4	668.7	638.8	638.8
65°	498.8	494.7	496.1	505.6	530.1	565.4	550.5	530.1	532.8	530.1	526.0
67.5°	424.1	429.5	425.4	432.2	433.6	439.0	448.5	456.7	458.0	460.8	458.0
70°	347.9	349.3	352.0	357.5	358.8	362.9	376.5	383.3	387.4	387.4	392.8
72.5°	266.4	265.0	267.8	273.2	280.0	281.3	293.6	303.1	308.5	301.7	303.1
75°	175.3	176.7	180.8	184.8	194.4	203.9	208.0	217.5	218.8	221.5	214.8
77.5°	104.7	107.4	111.5	119.6	127.8	135.9	145.4	152.2	154.9	152.2	144.1
80°	68.0	68.0	73.4	80.2	89.7	96.5	101.9	107.4	111.5	107.4	104.7
82.5°	42.1	42.1	48.9	57.1	63.9	68.0	76.1	82.9	87.0	84.3	80.2
85°	21.7	23.1	28.5	35.3	40.8	43.5	42.1	38.1	34.0	32.6	29.9
87.5°	6.8	6.8	8.2	8.2	6.8	6.8	8.2	6.8	8.2	8.2	8.2
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)