

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: P453352

Luminaire Tested: **GALN-SA4B-827-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453352
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4B-827-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17269 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

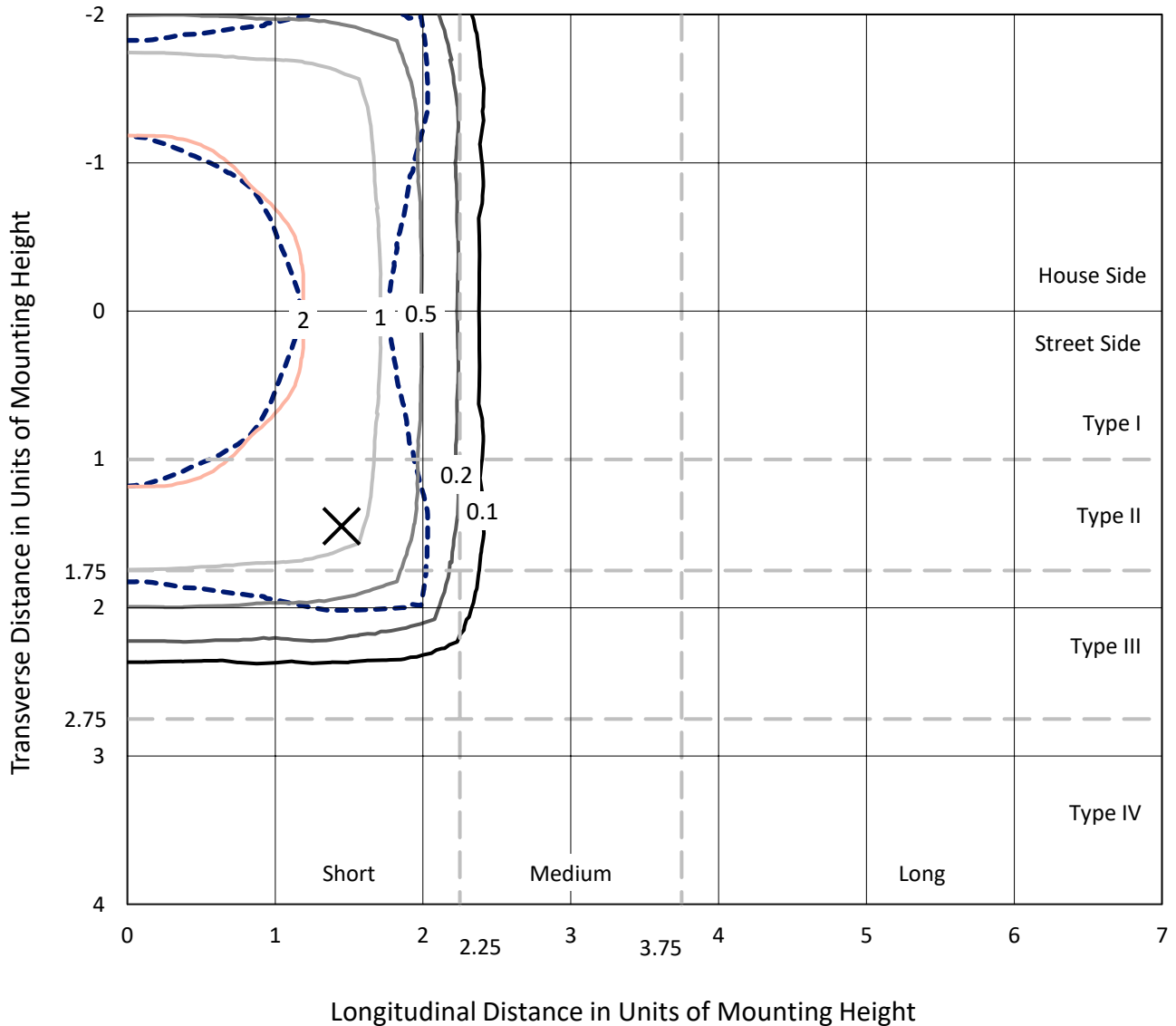
Input Watts (W): 164
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

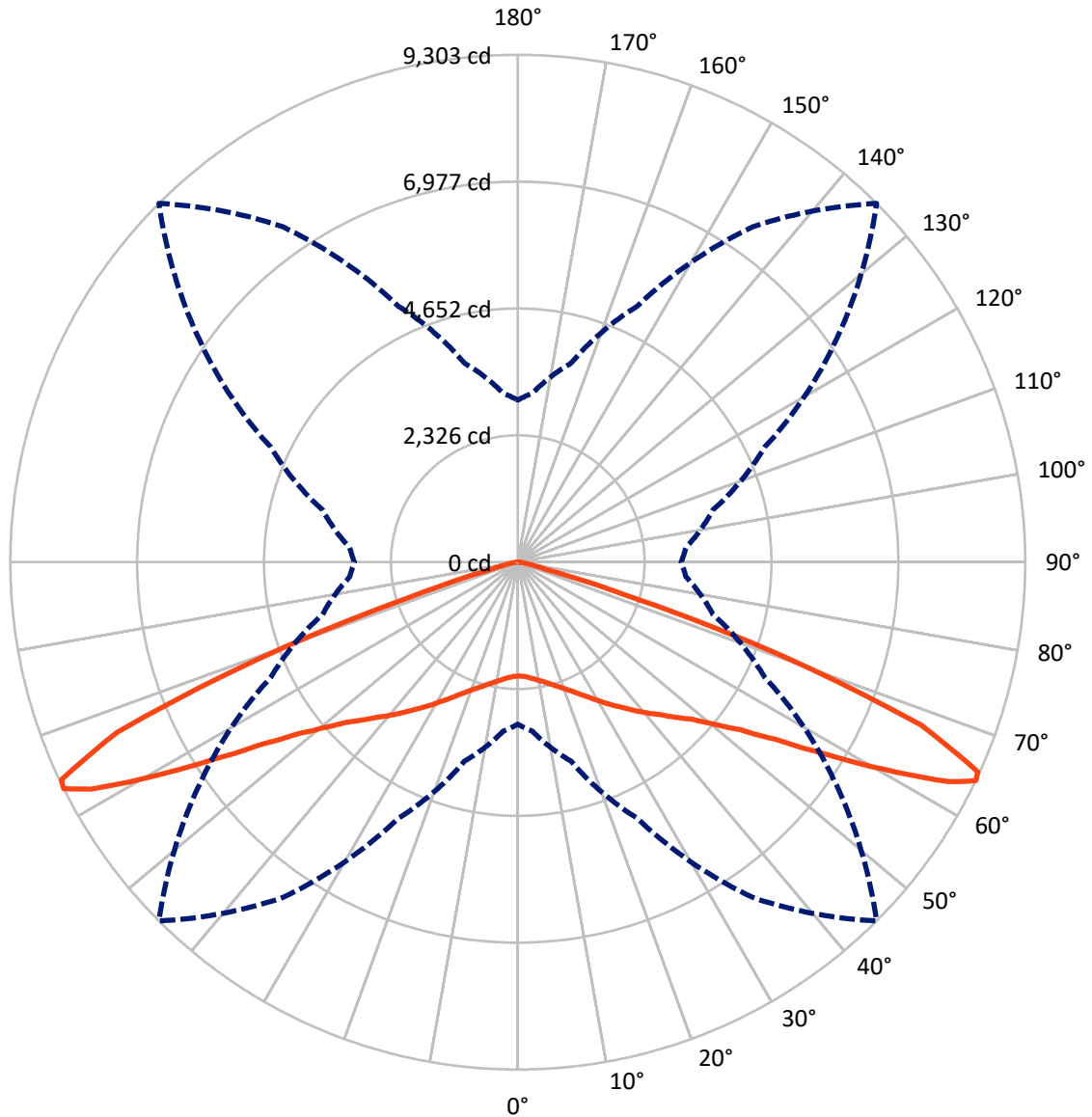
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8634.5	0.0	8634.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8634.5	0.0	8634.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	17269.0	0.0	17269.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.1	1.2
10°-20°	661.4	3.8
20°-30°	1249.9	7.2
30°-40°	2070.0	12.0
40°-50°	3231.7	18.7
50°-60°	4996.1	28.9
60°-70°	4308.1	24.9
70°-80°	488.2	2.8
80°-90°	58.5	0.3
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°	17269.0	100.0
0°-180°	17269.0	100.0

Coefficient of Utilization



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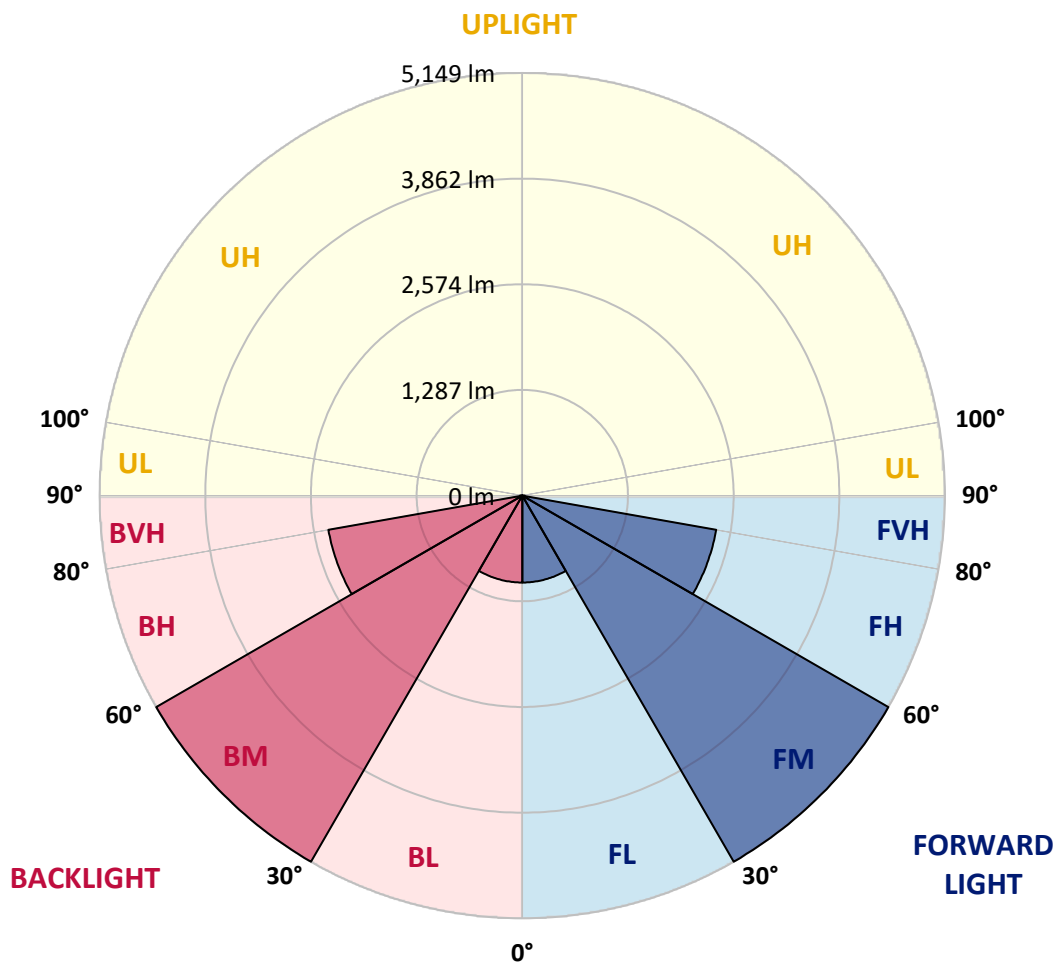
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1058.2	6.1			
FM	(30°-60°)	5148.9	29.8			
FH	(60°-80°)	2398.1	13.9			G2/5000
FVH	(80°-90°)	29.2	0.2			G1/100
BL	(0°-30°)	1058.2	6.1	B3/2500		
BM	(30°-60°)	5148.9	29.8	B4/8500		
BH	(60°-80°)	2398.1	13.9	B3/2500		G2/5000
BVH	(80°-90°)	29.2	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2087.2	2087.2	2087.2	2087.2	2087.2	2087.2	2087.2	2087.2	2087.2	2087.2	2087.2
2.5°	2095.5	2100.1	2096.4	2095.5	2094.6	2094.6	2094.6	2095.5	2099.1	2101.9	2100.1
5°	2122.0	2125.7	2123.8	2122.9	2122.0	2122.9	2121.1	2120.2	2122.9	2122.9	2122.0
7.5°	2154.9	2159.5	2157.7	2159.5	2160.4	2161.3	2156.8	2153.1	2152.2	2154.9	2153.1
10°	2199.8	2203.4	2204.3	2205.2	2207.1	2206.2	2200.7	2194.3	2193.3	2192.4	2191.5
12.5°	2250.1	2252.8	2253.7	2257.4	2260.1	2261.0	2254.6	2249.1	2240.0	2241.8	2238.2
15°	2306.8	2312.3	2311.3	2316.8	2324.1	2326.0	2319.6	2310.4	2302.2	2297.6	2294.9
17.5°	2376.3	2379.9	2378.1	2383.6	2392.7	2397.3	2391.8	2379.9	2371.7	2361.6	2356.2
20°	2458.6	2465.0	2466.8	2466.8	2475.1	2479.6	2471.4	2467.7	2454.9	2447.6	2443.1
22.5°	2551.9	2554.6	2560.1	2565.6	2573.8	2572.0	2569.3	2563.8	2551.9	2545.5	2538.2
25°	2657.1	2659.8	2673.5	2685.4	2688.2	2686.3	2682.7	2679.9	2669.0	2654.3	2648.8
27.5°	2779.6	2785.1	2803.4	2814.4	2814.4	2815.3	2808.0	2817.1	2793.4	2776.0	2774.2
30°	2933.3	2937.0	2952.5	2963.5	2958.0	2953.4	2951.6	2960.7	2935.1	2904.0	2896.7
32.5°	3085.1	3097.9	3111.7	3135.4	3116.2	3108.0	3106.2	3112.6	3083.3	3048.6	3038.5
35°	3247.9	3257.1	3282.7	3302.8	3285.5	3266.2	3274.5	3294.6	3259.8	3213.2	3211.4
37.5°	3428.1	3436.4	3469.3	3490.3	3477.5	3444.6	3458.3	3482.1	3447.3	3389.7	3377.8
40°	3615.6	3633.0	3674.2	3696.1	3675.1	3631.2	3656.8	3682.4	3651.3	3584.5	3558.0
42.5°	3826.0	3853.5	3912.9	3923.9	3883.6	3824.2	3869.0	3910.2	3888.2	3811.4	3801.3
45°	4072.1	4088.5	4161.7	4185.5	4129.7	4055.6	4111.4	4186.4	4169.9	4081.2	4062.0
47.5°	4347.4	4362.9	4438.8	4474.5	4404.1	4304.4	4405.0	4502.9	4492.8	4397.7	4388.5
50°	4673.0	4676.6	4781.8	4822.1	4751.6	4665.7	4755.3	4877.0	4836.7	4715.1	4713.2
52.5°	5029.7	5034.3	5166.9	5244.6	5205.3	5108.4	5214.5	5288.6	5186.1	5027.0	5015.1
55°	5338.9	5361.7	5542.8	5749.5	5803.5	5733.1	5765.1	5730.3	5477.9	5254.7	5220.0
57.5°	5465.1	5509.9	5785.2	6171.2	6522.4	6626.7	6379.7	6048.6	5594.0	5278.5	5244.6
60°	5156.8	5205.3	5632.5	6365.1	7261.5	7714.2	7020.0	6102.6	5329.7	4886.1	4833.1
62.5°	4129.7	4143.4	4771.8	5908.7	7692.3	8864.9	7289.8	5642.5	4560.5	3957.7	3936.7
64°	2971.7	3112.6	3778.5	5180.6	7503.9	9303.0	7134.3	4997.7	3704.4	3094.3	2995.5
65°	2222.6	2261.0	3045.8	4424.2	7171.8	9270.1	6832.5	4381.2	3067.8	2368.0	2258.3
67.5°	839.7	844.2	1124.1	2205.2	5105.6	7975.8	5214.5	2383.6	1292.4	934.8	900.9
70°	348.5	354.9	412.5	741.8	2194.3	5121.2	2514.4	859.8	472.9	383.2	377.8
72.5°	255.2	258.8	276.2	329.3	675.0	2102.8	826.9	364.9	277.1	247.9	245.1
75°	200.3	202.1	214.9	242.4	314.6	582.6	343.9	250.6	211.3	190.2	188.4
77.5°	152.7	157.3	166.5	184.8	211.3	276.2	227.7	187.5	162.8	145.4	142.7
80°	105.2	110.7	128.1	135.4	141.8	179.3	155.5	141.8	127.1	106.1	99.7
82.5°	64.9	68.6	86.0	92.4	89.6	100.6	99.7	101.5	90.6	65.9	61.3
85°	33.8	35.7	46.6	48.5	44.8	41.2	51.2	59.5	55.8	37.5	36.6
87.5°	7.3	8.2	10.1	9.1	10.1	10.1	12.8	19.2	20.1	12.8	11.9
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)