

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: P454279

Luminaire Tested: **GALN-SA5B-827-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454279
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5B-827-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21970 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

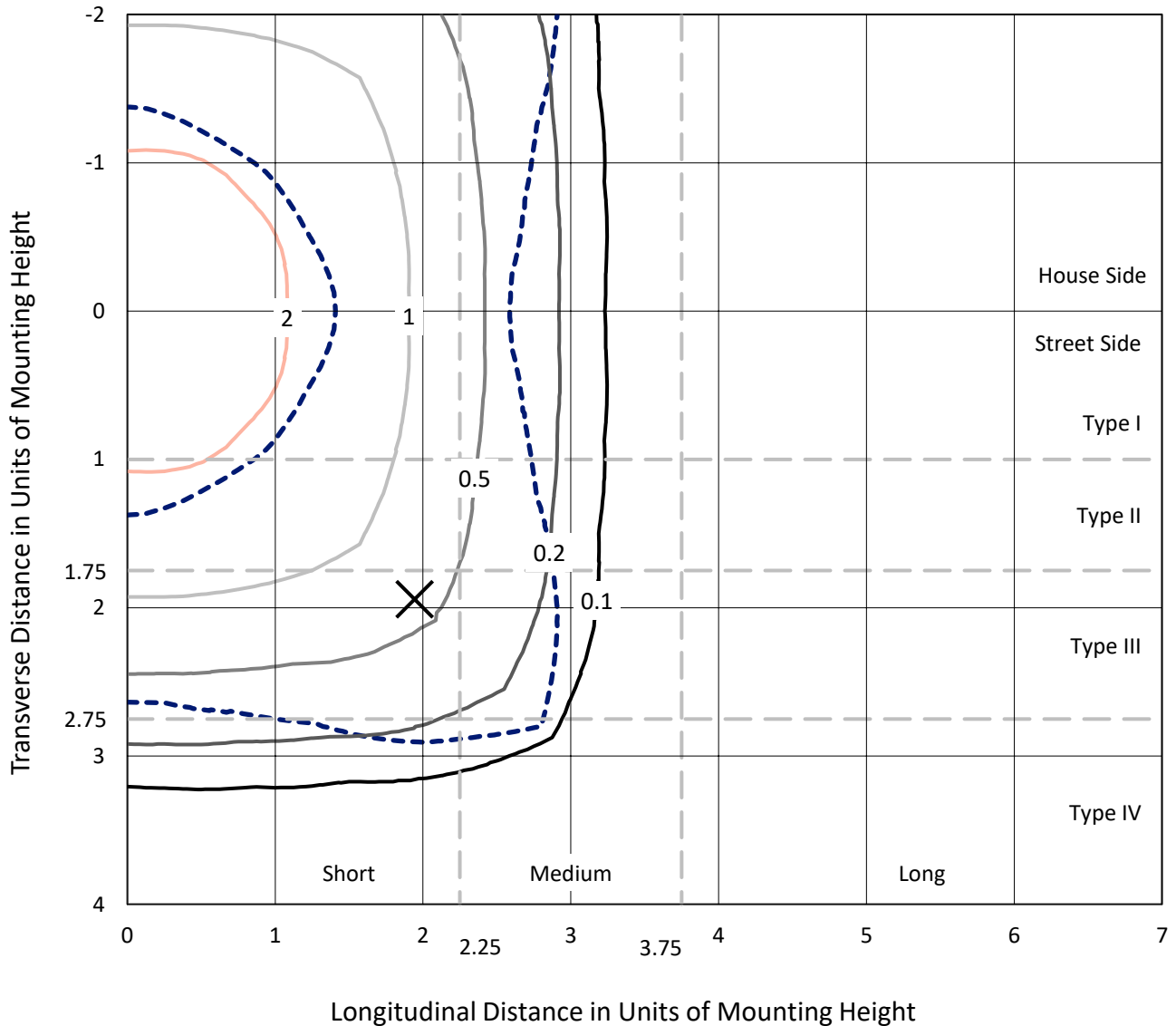
Input Watts (W): 204
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

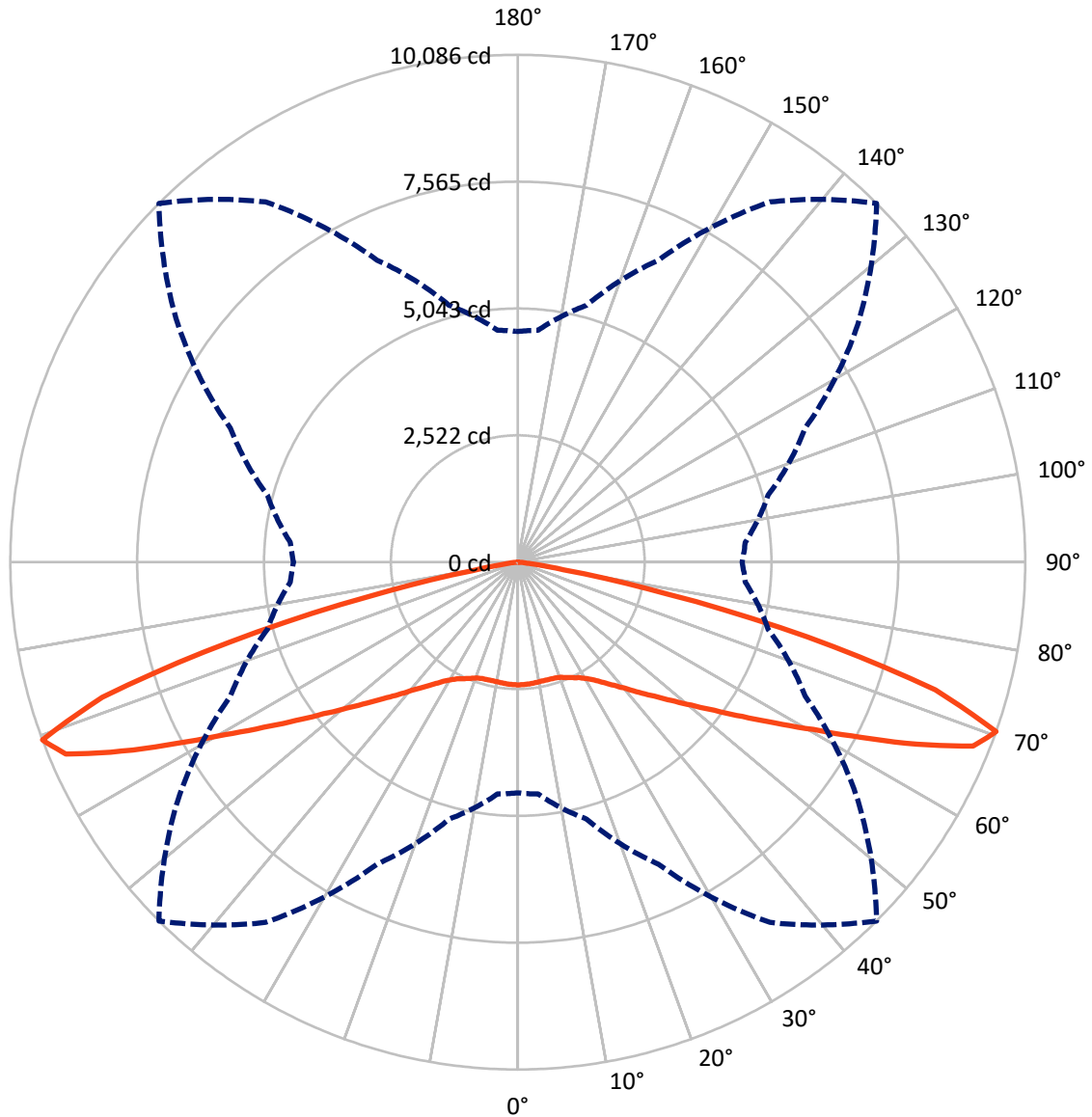
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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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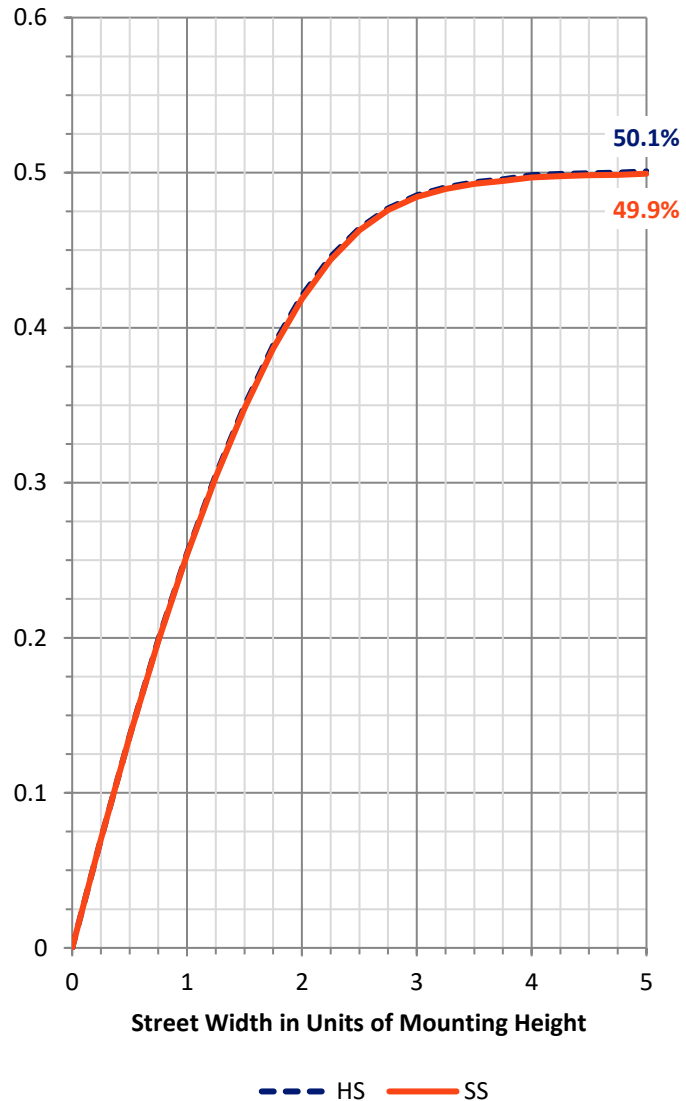
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10985.0	0.0	10985.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10985.0	0.0	10985.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	21970.0	0.0	21970.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.3	1.1
10°-20°	678.9	3.1
20°-30°	1161.1	5.3
30°-40°	1842.9	8.4
40°-50°	2973.1	13.5
50°-60°	4837.3	22.0
60°-70°	7012.3	31.9
70°-80°	3110.4	14.2
80°-90°	122.7	0.6
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°	21970.0	100.0
0°-180°	21970.0	100.0



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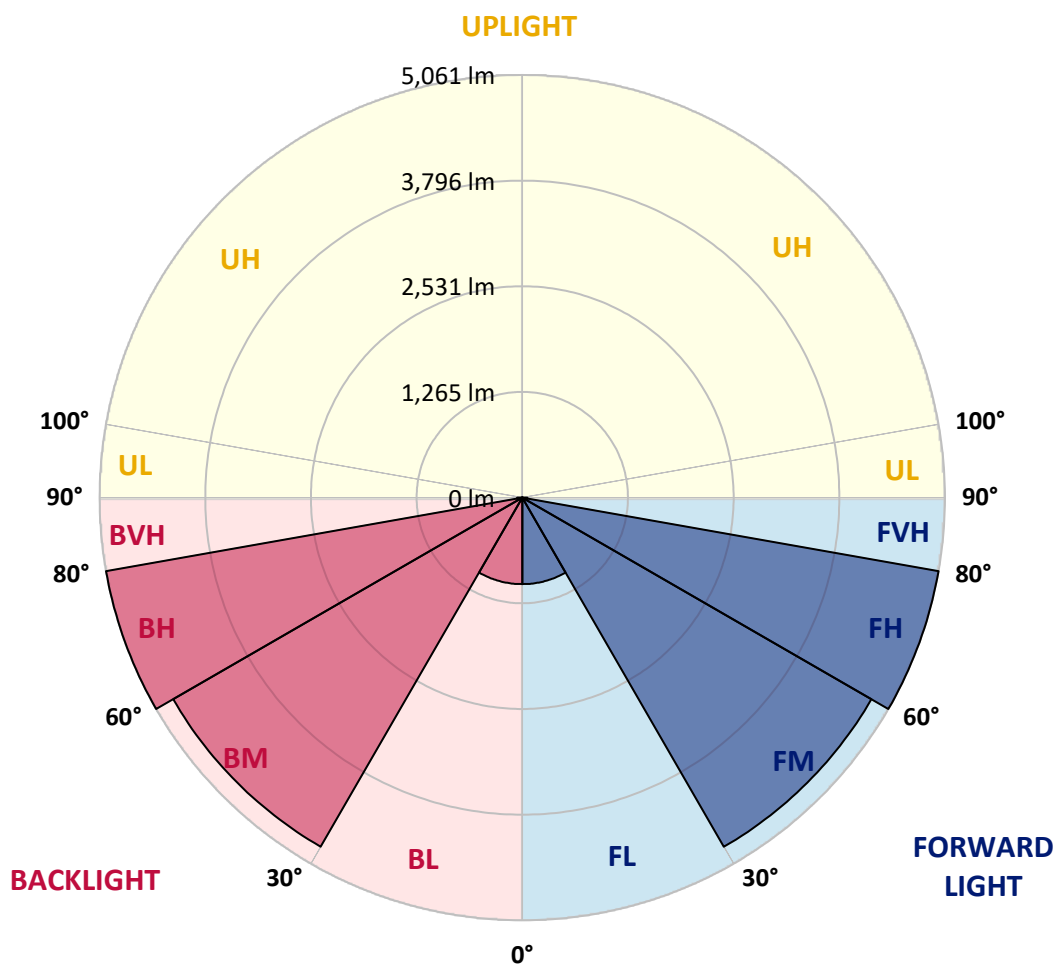
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1035.7	4.7			
FM (30°-60°)	4826.6	22.0			
FH (60°-80°)	5061.4	23.0			G3/7500
FVH (80°-90°)	61.3	0.3			G1/100
BL (0°-30°)	1035.7	4.7	B3/2500		
BM (30°-60°)	4826.6	22.0	B3/5000		
BH (60°-80°)	5061.4	23.0	B5		G3/7500
BVH (80°-90°)	61.3	0.3			G1/100
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°	2439.7	2439.7	2439.7	2439.7	2439.7	2439.7	2439.7	2439.7	2439.7	2439.7	2439.7
2.5°	2439.7	2442.0	2438.5	2436.2	2435.0	2435.0	2433.9	2435.0	2442.0	2443.1	2439.7
5°	2432.7	2435.0	2433.9	2431.6	2430.4	2430.4	2429.2	2428.1	2433.9	2436.2	2435.0
7.5°	2423.5	2424.6	2423.5	2422.3	2423.5	2422.3	2418.8	2416.5	2421.1	2421.1	2420.0
10°	2407.2	2409.6	2408.4	2409.6	2411.9	2411.9	2407.2	2402.6	2403.8	2401.5	2401.5
12.5°	2387.6	2391.0	2392.2	2396.8	2402.6	2409.6	2399.1	2388.7	2386.4	2385.2	2384.1
15°	2374.8	2378.3	2382.9	2387.6	2398.0	2413.0	2398.0	2381.8	2377.1	2372.5	2370.2
17.5°	2371.3	2376.0	2382.9	2389.9	2403.8	2418.8	2406.1	2389.9	2378.3	2371.3	2369.0
20°	2380.6	2384.1	2394.5	2407.2	2426.9	2442.0	2429.2	2411.9	2394.5	2384.1	2380.6
22.5°	2399.1	2404.9	2417.7	2440.8	2468.6	2490.6	2473.2	2444.3	2416.5	2402.6	2398.0
25°	2439.7	2444.3	2459.3	2490.6	2523.0	2543.9	2525.3	2491.8	2453.6	2435.0	2429.2
27.5°	2501.0	2508.0	2524.2	2561.2	2587.9	2599.5	2586.7	2563.6	2535.8	2516.1	2511.5
30°	2587.9	2596.0	2620.3	2659.7	2677.0	2684.0	2678.2	2663.1	2643.5	2622.6	2618.0
32.5°	2704.8	2709.5	2737.2	2774.3	2790.5	2792.8	2785.9	2778.9	2746.5	2711.8	2709.5
35°	2835.7	2843.8	2877.3	2921.3	2936.4	2937.6	2923.7	2913.2	2875.0	2847.2	2847.2
37.5°	3009.3	3012.8	3045.2	3095.0	3111.2	3106.6	3099.7	3090.4	3049.9	3014.0	3015.1
40°	3213.1	3220.1	3247.9	3305.8	3305.8	3300.0	3304.6	3297.7	3257.1	3222.4	3223.6
42.5°	3455.1	3458.6	3492.2	3553.6	3548.9	3537.3	3542.0	3532.7	3507.2	3467.9	3454.0
45°	3713.3	3727.2	3785.1	3844.2	3834.9	3797.9	3816.4	3814.1	3790.9	3731.9	3735.3
47.5°	4024.8	4048.0	4103.5	4174.2	4163.8	4105.9	4126.7	4140.6	4108.2	4043.3	4031.8
50°	4375.6	4390.7	4472.9	4538.9	4529.6	4468.3	4515.8	4518.1	4437.0	4345.5	4345.5
52.5°	4749.6	4764.7	4875.9	4978.9	4984.7	4895.5	4933.8	4931.4	4799.4	4679.0	4655.9
55°	5168.8	5175.7	5319.3	5471.0	5503.4	5416.6	5421.2	5374.9	5203.5	5063.4	5050.7
57.5°	5601.9	5627.3	5786.0	5982.8	6078.9	6025.6	6001.3	5877.4	5711.8	5550.9	5542.8
60°	6081.2	6082.4	6288.5	6521.2	6715.7	6751.6	6652.1	6486.5	6272.3	6059.2	6050.0
62.5°	6413.5	6463.3	6723.8	7117.5	7466.0	7667.5	7404.7	7057.3	6635.8	6292.0	6257.2
65°	6481.8	6515.4	6912.6	7579.5	8291.6	8725.8	8117.9	7379.2	6660.2	6201.6	6178.5
67.5°	5929.5	5965.4	6500.4	7523.9	8870.6	9761.0	8581.1	7224.0	6248.0	5680.6	5635.4
70°	4586.4	4626.9	5288.1	6623.1	8742.0	10086.3	8251.1	6301.2	5152.6	4540.1	4457.9
72.5°	2438.5	2587.9	3152.9	4545.9	7095.5	8684.1	6765.5	4598.0	3323.1	2716.4	2607.6
75°	890.4	908.9	1223.9	2015.9	4127.9	5955.0	4286.5	2193.0	1260.9	973.8	924.0
77.5°	368.2	367.0	402.9	609.0	1499.5	3049.9	1673.1	643.8	401.8	371.7	367.0
80°	217.7	217.7	239.7	253.6	394.8	920.5	441.2	287.2	240.8	220.0	223.5
82.5°	97.3	103.1	151.7	159.8	191.1	252.4	213.1	182.9	157.5	108.8	98.4
85°	53.3	46.3	79.9	83.4	91.5	93.8	100.7	99.6	91.5	53.3	54.4
87.5°	10.4	12.7	23.2	17.4	19.7	17.4	23.2	32.4	33.6	18.5	15.1
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)