

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: P529240

Luminaire Tested: **GALN-SA4B-827-U-5WQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529240
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4B-827-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14039 lumens
Efficiency: N/A
Efficacy: 85.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

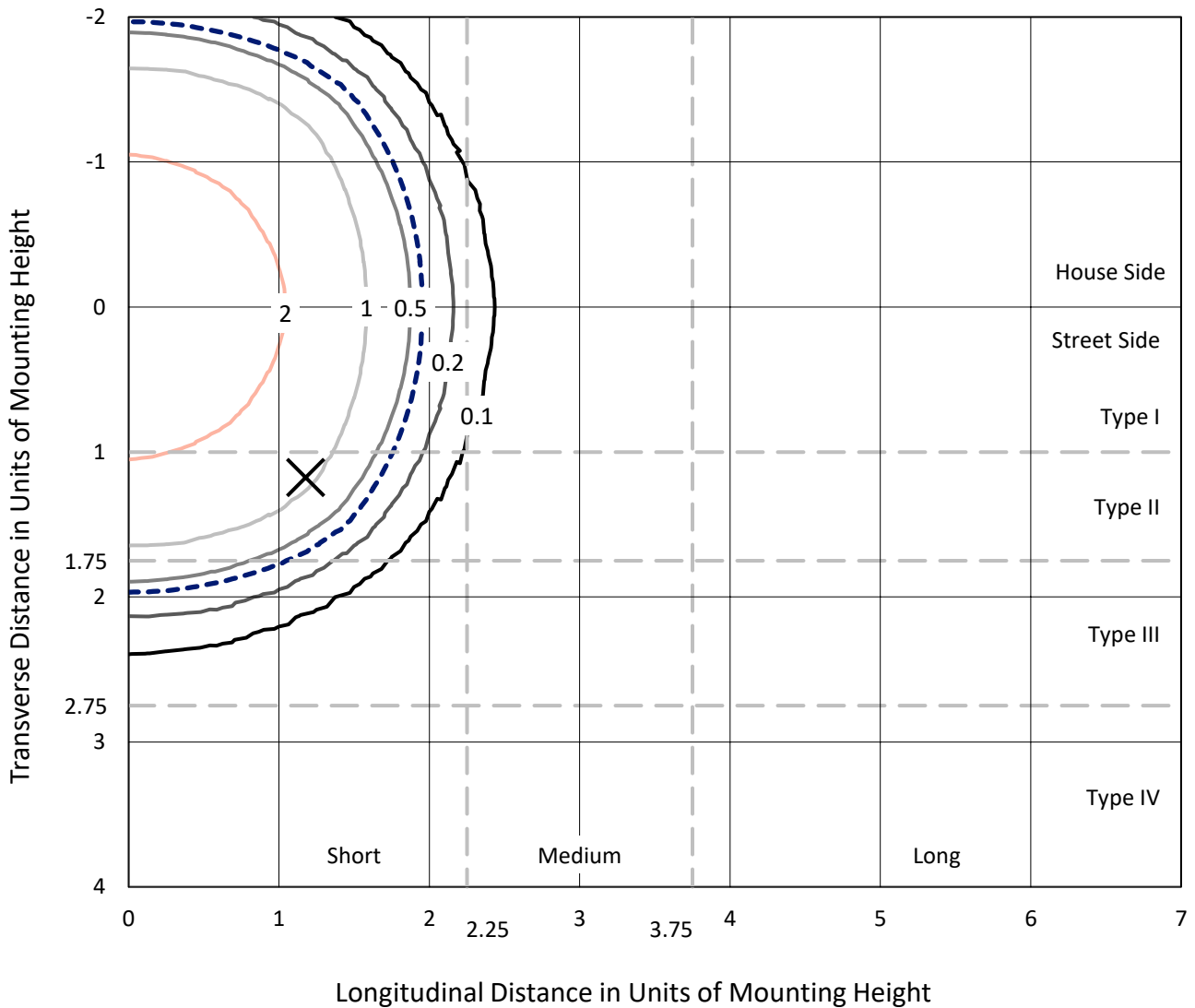
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

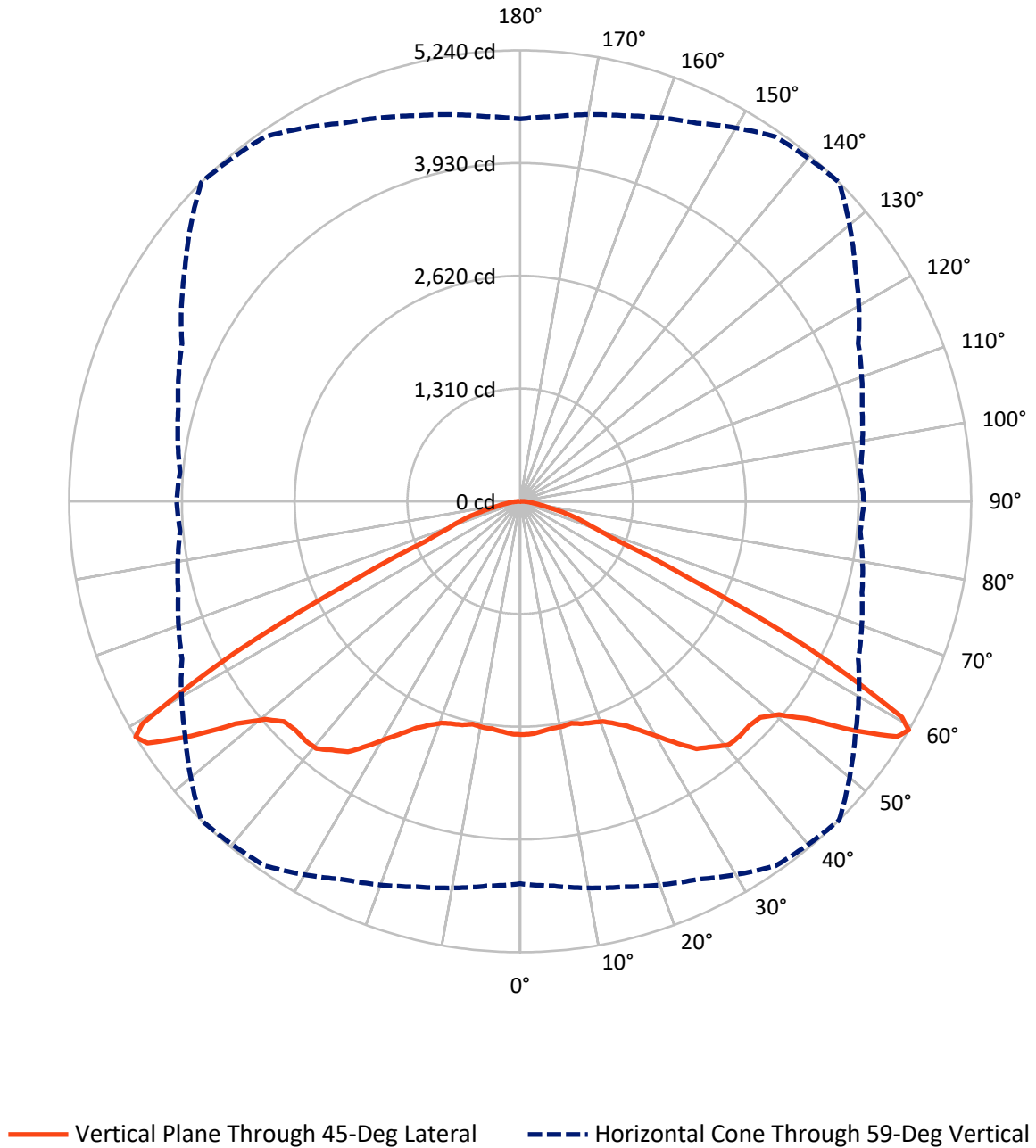
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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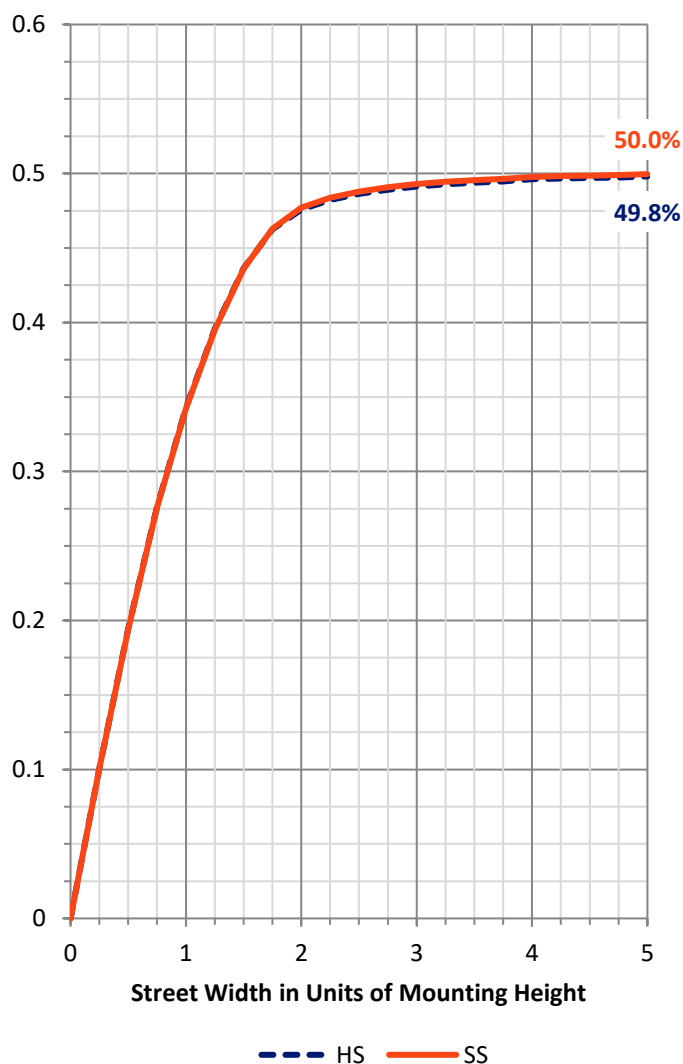
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7019.5	0.0	7019.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7019.5	0.0	7019.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	14039.0	0.0	14039.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.6	1.8
10°-20°	760.2	5.4
20°-30°	1327.4	9.5
30°-40°	2120.0	15.1
40°-50°	2887.8	20.6
50°-60°	3905.1	27.8
60°-70°	2141.6	15.3
70°-80°	547.9	3.9
80°-90°	93.4	0.7
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°	14039.0	100.0
0°-180°	14039.0	100.0

Coefficient of Utilization



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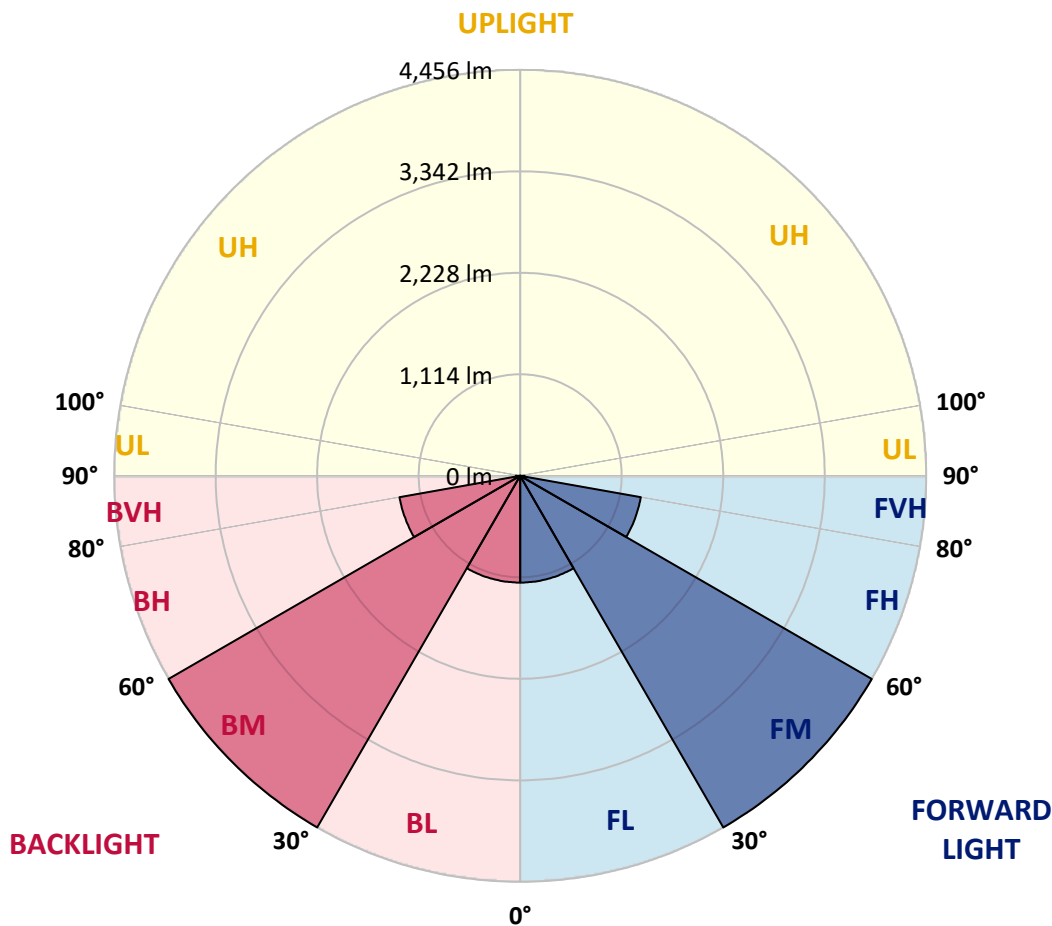
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1171.6	8.3			
FM (30°-60°)	4456.5	31.7			
FH (60°-80°)	1344.7	9.6			G1/1800
FVH (80°-90°)	46.7	0.3			G1/100
BL (0°-30°)	1171.6	8.3	B3/2500		
BM (30°-60°)	4456.5	31.7	B3/5000		
BH (60°-80°)	1344.7	9.6	B3/2500		G1/1800
BVH (80°-90°)	46.7	0.3			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°	2711.7	2711.7	2711.7	2711.7	2711.7	2711.7	2711.7	2711.7	2711.7	2711.7	2711.7
2.5°	2695.5	2715.3	2700.9	2713.5	2711.7	2706.3	2697.3	2691.9	2684.7	2695.5	2677.5
5°	2684.7	2700.9	2717.1	2695.5	2695.5	2684.7	2679.3	2668.5	2668.5	2666.7	2664.9
7.5°	2702.7	2686.5	2679.3	2682.9	2686.5	2663.1	2679.3	2657.7	2639.7	2652.3	2666.7
10°	2686.5	2693.7	2666.7	2679.3	2659.5	2663.1	2652.3	2666.7	2646.9	2646.9	2646.9
12.5°	2702.7	2682.9	2691.9	2682.9	2677.5	2646.9	2661.3	2645.1	2643.3	2661.3	2645.1
15°	2735.1	2702.7	2695.5	2677.5	2682.9	2682.9	2668.5	2670.3	2650.5	2661.3	2664.9
17.5°	2724.3	2706.3	2700.9	2679.3	2697.3	2702.7	2675.7	2657.7	2670.3	2668.5	2666.7
20°	2733.3	2740.5	2735.1	2738.7	2745.9	2731.5	2706.3	2681.1	2664.9	2688.3	2686.5
22.5°	2790.8	2783.6	2780.0	2776.4	2789.0	2803.4	2769.2	2729.7	2729.7	2745.9	2753.0
25°	2837.6	2835.8	2834.0	2850.2	2893.4	2893.4	2850.2	2799.8	2787.2	2798.0	2789.0
27.5°	2906.0	2925.8	2918.6	2947.4	3010.4	3024.8	2967.2	2907.8	2873.6	2861.0	2877.2
30°	3062.5	3039.2	3044.5	3075.1	3130.9	3177.7	3089.5	3026.6	2979.8	2978.0	2985.2
32.5°	3166.9	3184.9	3201.1	3229.9	3318.1	3354.0	3247.9	3145.3	3116.5	3100.3	3105.7
35°	3375.6	3359.4	3355.8	3384.6	3472.8	3532.2	3399.0	3309.1	3271.3	3307.3	3307.3
37.5°	3573.6	3528.6	3494.4	3532.2	3613.2	3620.3	3507.0	3458.4	3438.6	3480.0	3478.2
40°	3667.1	3663.5	3584.4	3606.0	3713.9	3724.7	3618.6	3561.0	3557.4	3611.4	3665.3
42.5°	3764.3	3730.1	3650.9	3665.3	3731.9	3735.5	3634.7	3618.6	3658.1	3710.3	3713.9
45°	3780.5	3751.7	3701.3	3665.3	3713.9	3724.7	3665.3	3676.1	3679.7	3742.7	3742.7
47.5°	3812.9	3809.3	3780.5	3753.5	3762.5	3753.5	3715.7	3731.9	3785.9	3816.5	3802.1
50°	3902.9	3865.1	3893.9	3870.5	3872.3	3897.5	3863.3	3879.5	3868.7	3841.7	3823.7
52.5°	4100.8	4082.8	4108.0	4124.2	4142.2	4199.7	4160.2	4073.8	3992.8	3920.8	3919.0
55°	4390.5	4403.1	4451.7	4534.4	4604.6	4696.4	4505.6	4298.7	4169.2	4055.8	4063.0
57.5°	4664.0	4655.0	4721.6	4910.5	5115.6	5162.4	4788.1	4493.0	4282.5	4210.5	4180.0
59°	4444.5	4487.7	4638.8	4849.3	5171.4	5239.8	4750.4	4334.7	4111.6	3965.8	3991.0
60°	4099.0	4115.2	4250.1	4543.4	4978.9	5095.8	4496.6	4090.0	3793.1	3708.5	3746.3
62.5°	2897.0	2884.4	2981.6	3220.9	3611.4	3769.7	3343.2	3057.1	2870.0	2776.4	2798.0
65°	1540.3	1597.8	1637.4	1786.8	1993.7	2161.1	1984.7	1860.6	1756.2	1678.8	1677.0
67.5°	1040.0	1032.8	1041.8	1076.0	1146.2	1193.0	1189.4	1126.4	1117.4	1103.0	1119.2
70°	876.3	872.7	856.5	856.5	870.9	881.7	894.3	901.5	915.9	933.9	932.1
72.5°	710.8	701.8	691.0	685.6	703.6	709.0	725.1	732.3	744.9	743.1	759.3
75°	469.6	469.6	482.2	496.6	502.0	512.8	514.6	536.2	536.2	539.8	525.4
77.5°	262.7	255.5	264.5	278.9	291.5	311.3	331.1	347.3	356.3	352.7	352.7
80°	152.9	152.9	161.9	178.1	194.3	212.3	226.7	239.3	248.3	244.7	237.5
82.5°	95.4	95.4	104.4	120.6	133.2	144.0	163.7	179.9	190.7	187.1	178.1
85°	48.6	48.6	59.4	70.2	86.4	93.6	91.8	84.6	82.8	73.8	73.8
87.5°	12.6	12.6	18.0	19.8	16.2	18.0	18.0	18.0	18.0	18.0	19.8
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)