

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: P529238

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

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529238  
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-SA4B-827-U-5NQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 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: 14904 lumens  
Efficiency: N/A  
Efficacy: 90.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G1

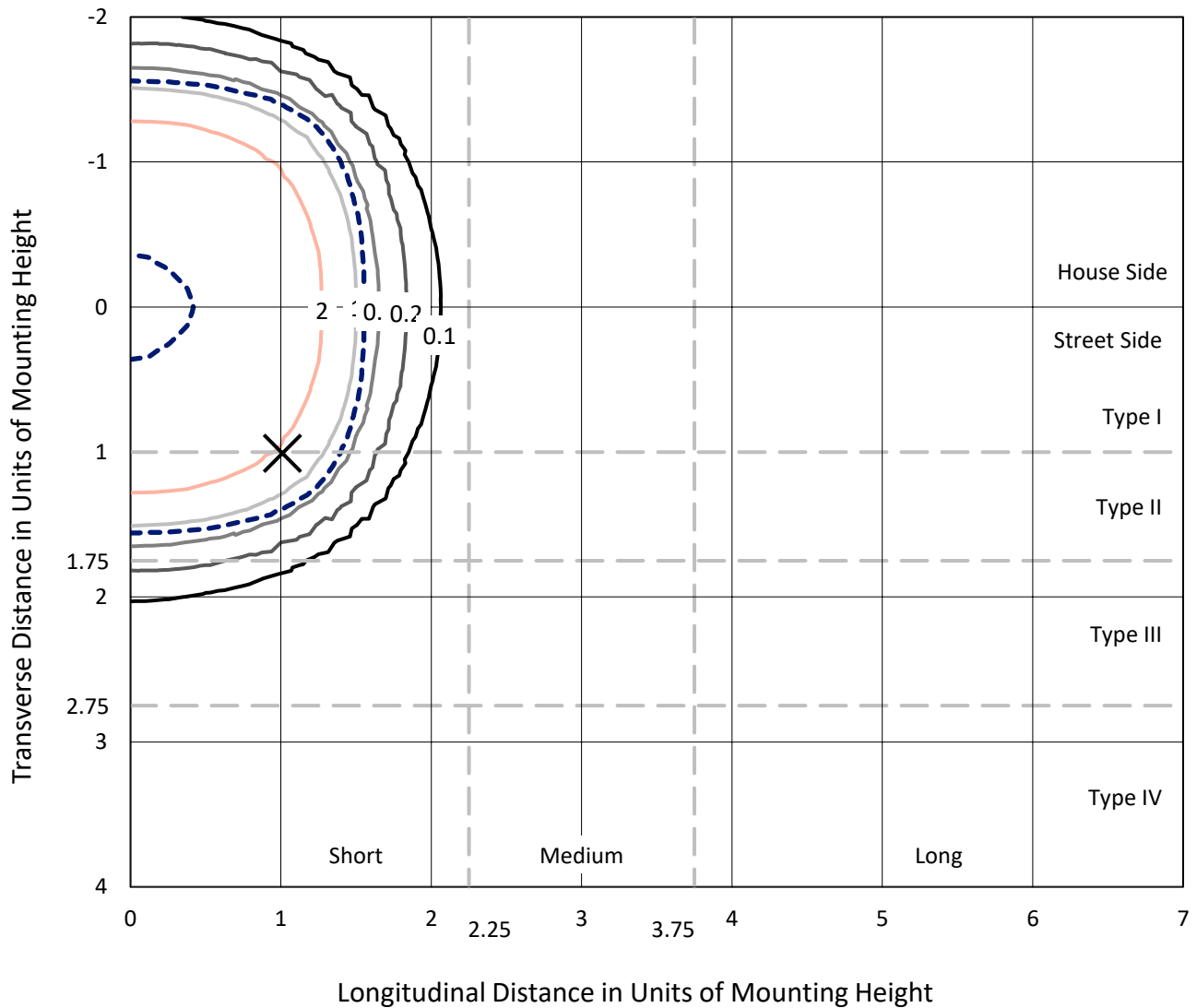
Input Watts (W): 164  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

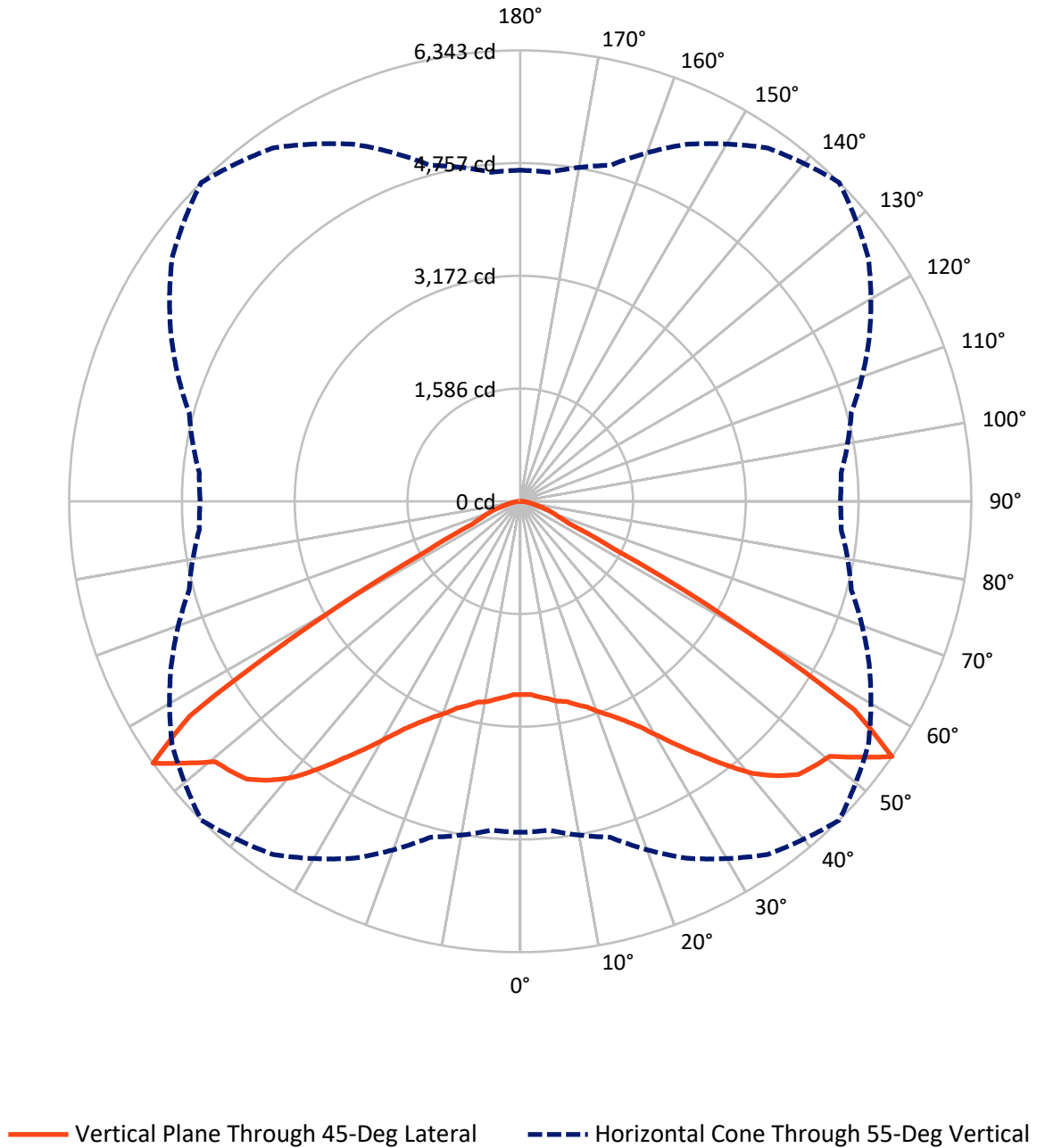
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



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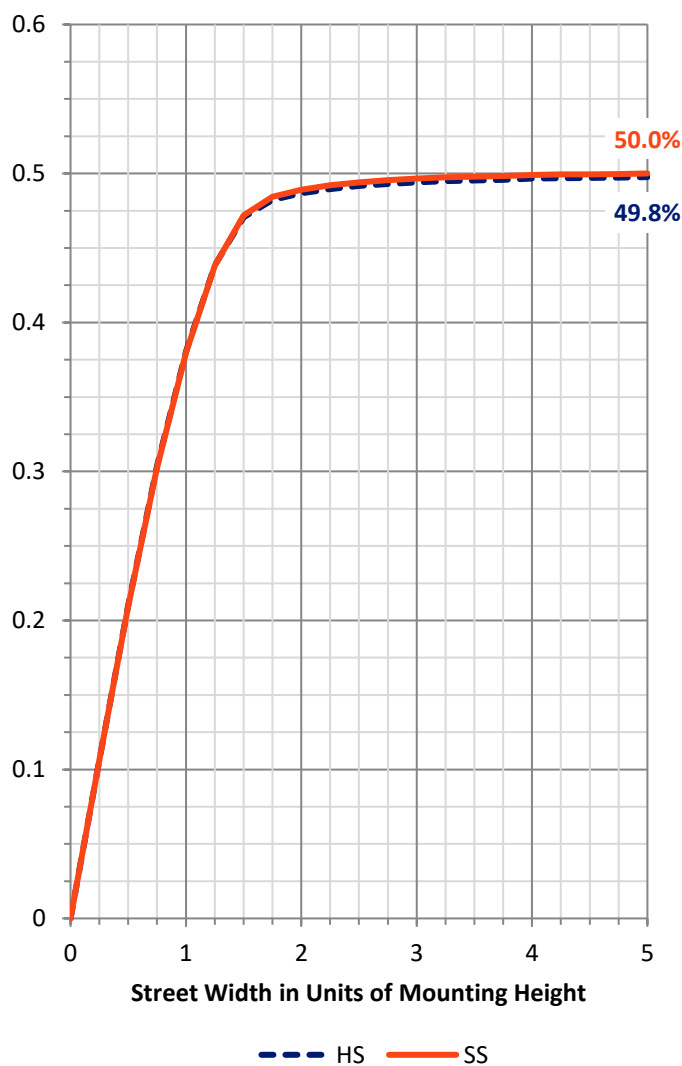
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7452.0	0.0	7452.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	7452.0	0.0	7452.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	14904.0	0.0	14904.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	265.8	1.8
10°-20°	842.3	5.7
20°-30°	1570.7	10.5
30°-40°	2629.8	17.6
40°-50°	4092.1	27.5
50°-60°	4248.9	28.5
60°-70°	901.1	6.0
70°-80°	296.8	2.0
80°-90°	56.5	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°	14904.0	100.0
0°-180°	14904.0	100.0

**Coefficient of Utilization**



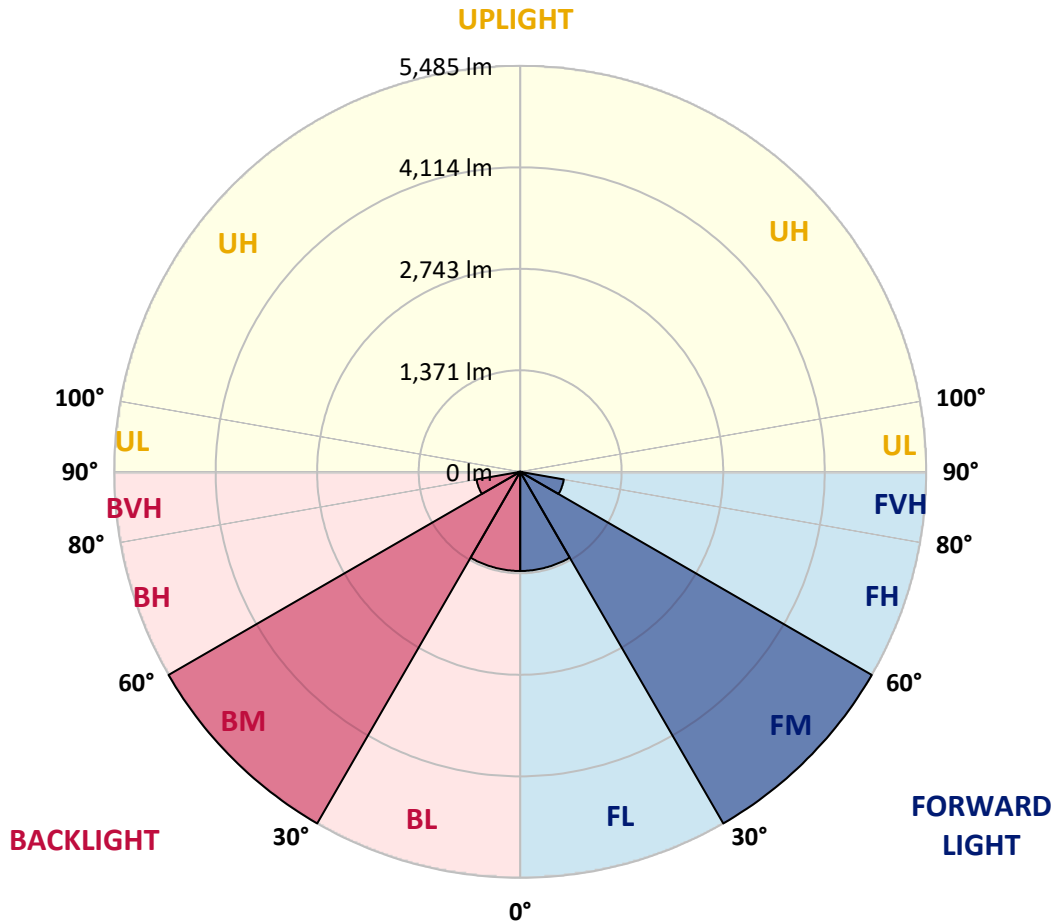
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1339.4	9.0			
FM (30°-60°)	5485.4	36.8			
FH (60°-80°)	598.9	4.0			G0/660
FVH (80°-90°)	28.3	0.2			G1/100
BL (0°-30°)	1339.4	9.0	B3/2500		
BM (30°-60°)	5485.4	36.8	B4/8500		
BH (60°-80°)	598.9	4.0	B2/1000		G0/660
BVH (80°-90°)	28.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2721.2	2721.2	2721.2	2721.2	2721.2	2721.2	2721.2	2721.2	2721.2	2721.2	2721.2
2.5°	2753.7	2741.1	2719.4	2735.7	2748.3	2721.2	2732.1	2737.5	2733.9	2719.4	2724.9
5°	2793.3	2786.1	2768.1	2780.7	2764.5	2764.5	2753.7	2739.3	2760.9	2757.3	2766.3
7.5°	2793.3	2784.3	2820.3	2796.9	2804.1	2804.1	2786.1	2771.7	2782.5	2766.3	2757.3
10°	2849.1	2861.7	2845.5	2850.9	2847.3	2859.9	2832.9	2823.9	2814.9	2809.5	2798.7
12.5°	2915.8	2906.7	2912.1	2908.5	2921.2	2888.7	2872.5	2852.7	2868.9	2845.5	2861.7
15°	2969.8	2964.4	2969.8	2984.2	2971.6	2969.8	2941.0	2921.2	2895.9	2901.3	2876.1
17.5°	3043.6	3038.2	3040.0	3052.6	3050.8	3041.8	3020.2	2982.4	2973.4	2959.0	2942.8
20°	3153.5	3144.5	3140.9	3146.3	3155.3	3162.5	3119.3	3104.9	3074.2	3050.8	3023.8
22.5°	3247.1	3243.5	3257.9	3234.5	3254.3	3275.9	3234.5	3227.3	3151.7	3139.1	3110.3
25°	3376.8	3371.4	3362.4	3396.6	3420.0	3418.2	3378.6	3339.0	3281.3	3266.9	3266.9
27.5°	3513.7	3483.1	3529.9	3538.9	3580.3	3592.9	3558.7	3501.1	3447.0	3416.4	3423.6
30°	3684.8	3655.9	3666.8	3731.6	3785.6	3832.4	3746.0	3661.3	3585.7	3531.7	3522.7
32.5°	3855.9	3827.0	3859.5	3922.5	4030.5	4100.8	4016.1	3868.5	3780.2	3701.0	3717.2
35°	3994.5	4016.1	4068.4	4163.8	4275.5	4388.9	4253.9	4140.4	4014.3	3926.1	3938.7
37.5°	4217.8	4284.5	4325.9	4435.8	4594.2	4711.3	4570.8	4423.2	4288.1	4172.8	4133.2
40°	4509.6	4554.6	4601.4	4731.1	4918.4	5035.5	4902.2	4709.5	4576.2	4457.4	4452.0
42.5°	4830.2	4873.4	4922.0	5080.5	5192.2	5280.4	5157.9	5055.3	4907.6	4814.0	4808.6
45°	5203.0	5172.4	5226.4	5330.8	5424.5	5482.1	5402.9	5352.4	5246.2	5159.7	5150.7
47.5°	5451.5	5424.5	5521.7	5615.4	5629.8	5566.8	5583.0	5629.8	5518.1	5375.9	5420.9
50°	5595.6	5595.6	5660.4	5746.9	5719.8	5638.8	5766.7	5770.3	5658.6	5532.5	5532.5
52.5°	5345.2	5401.1	5584.8	5867.5	5957.6	5981.0	5952.2	5829.7	5537.9	5280.4	5267.8
55°	4657.3	4644.7	4893.2	5541.5	6065.6	6343.0	5975.6	5411.9	4819.4	4529.4	4500.6
57.5°	3029.2	3043.6	3414.6	4075.6	5021.1	5537.9	4918.4	4126.0	3414.6	3014.8	3052.6
60°	1363.3	1412.0	1637.1	2130.5	2942.8	3364.2	2950.0	2238.6	1718.1	1491.2	1511.0
62.5°	783.4	792.4	801.4	950.9	1253.5	1482.2	1302.1	1004.9	886.1	846.5	846.5
65°	661.0	655.5	657.3	670.0	702.4	749.2	729.4	702.4	706.0	702.4	697.0
67.5°	561.9	569.1	563.7	572.7	574.5	581.7	594.3	605.1	606.9	610.5	606.9
70°	461.0	462.8	466.4	473.7	475.5	480.9	498.9	507.9	513.3	513.3	520.5
72.5°	353.0	351.2	354.8	362.0	371.0	372.8	389.0	401.6	408.8	399.8	401.6
75°	232.3	234.1	239.5	244.9	257.5	270.1	275.5	288.2	290.0	293.6	284.6
77.5°	138.7	142.3	147.7	158.5	169.3	180.1	192.7	201.7	205.3	201.7	190.9
80°	90.0	90.0	97.3	106.3	118.9	127.9	135.1	142.3	147.7	142.3	138.7
82.5°	55.8	55.8	64.8	75.6	84.6	90.0	100.9	109.9	115.3	111.7	106.3
85°	28.8	30.6	37.8	46.8	54.0	57.6	55.8	50.4	45.0	43.2	39.6
87.5°	9.0	9.0	10.8	10.8	9.0	9.0	10.8	9.0	10.8	10.8	10.8
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)