

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: P453381

Luminaire Tested: **GALN-SA4B-830-U-5NQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P453381  
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-830-U-5NQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 3000K, 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: 18668 lumens  
Efficiency: N/A  
Efficacy: 113.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

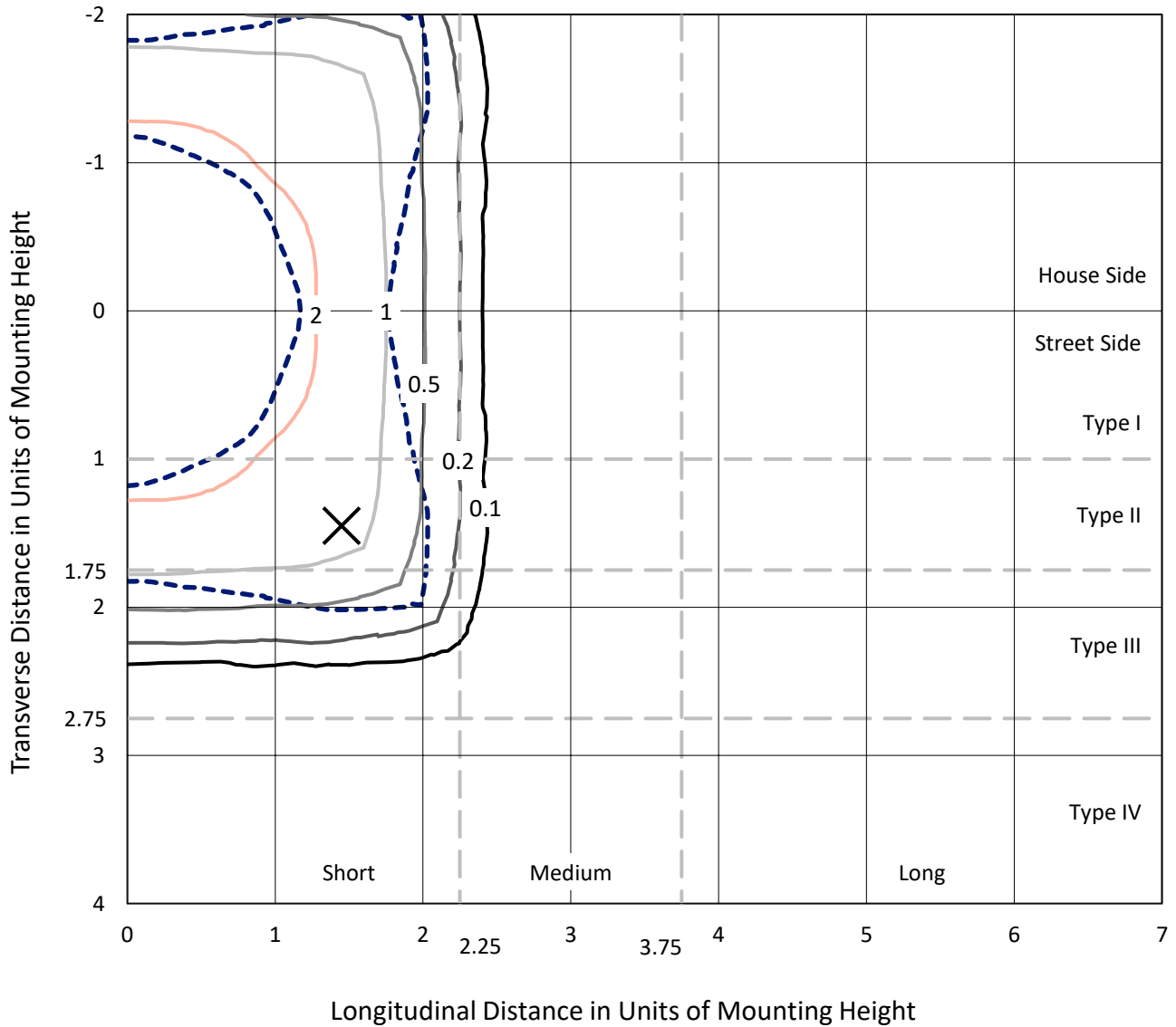
Input Watts (W): 164  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

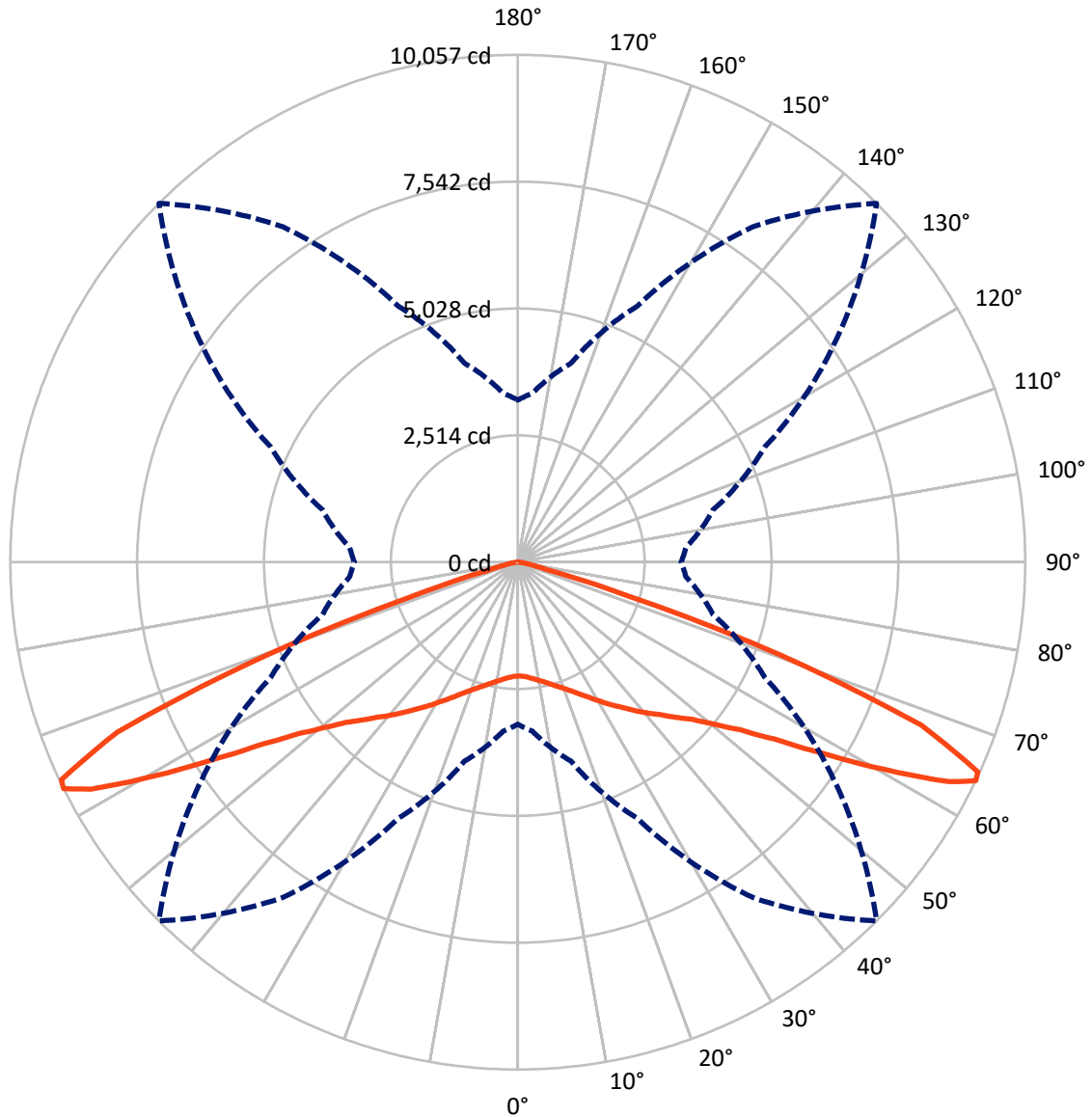
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 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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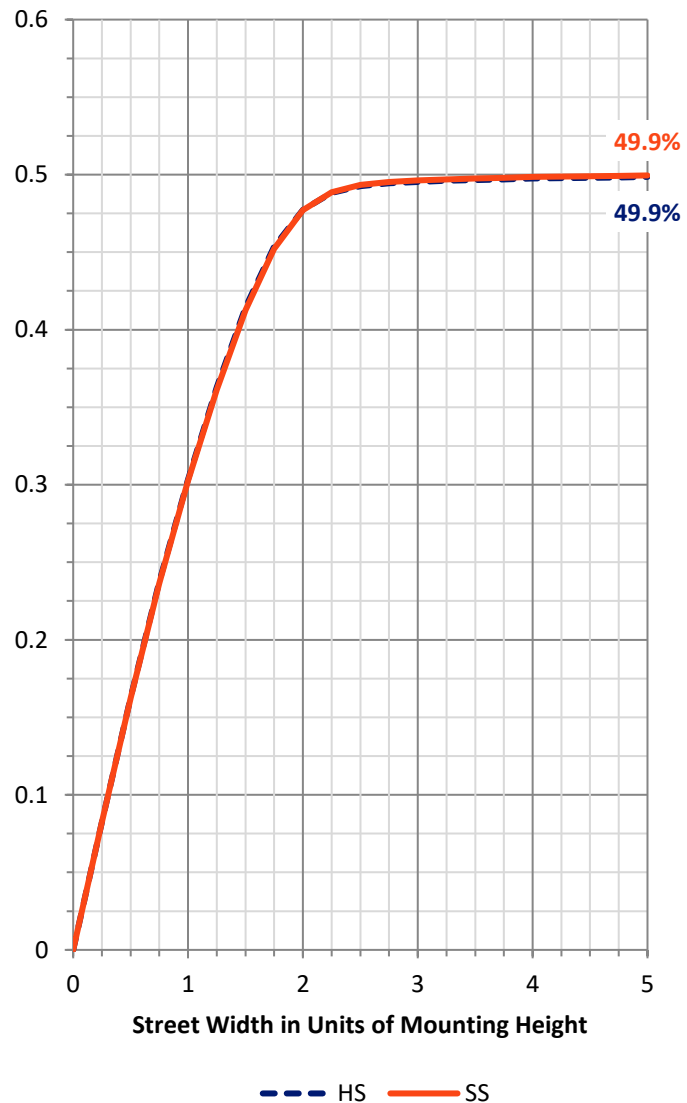
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9334.0	0.0	9334.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	9334.0	0.0	9334.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	18668.0	0.0	18668.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	221.7	1.2
10°-20°	715.0	3.8
20°-30°	1351.2	7.2
30°-40°	2237.7	12.0
40°-50°	3493.5	18.7
50°-60°	5400.8	28.9
60°-70°	4657.1	24.9
70°-80°	527.8	2.8
80°-90°	63.2	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°	18668.0	100.0
0°-180°	18668.0	100.0



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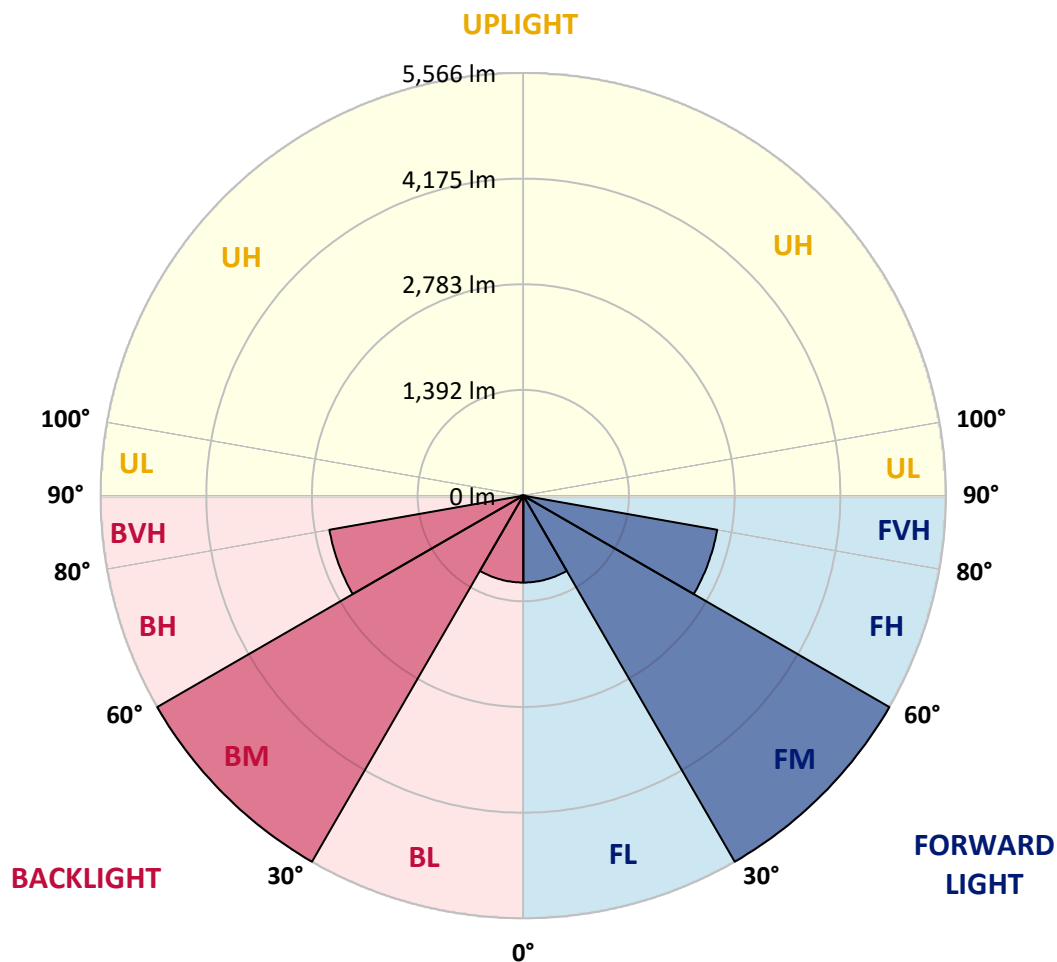
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1143.9	6.1			
FM	(30°-60°)	5566.0	29.8			
FH	(60°-80°)	2592.4	13.9			G2/5000
FVH	(80°-90°)	31.6	0.2			G1/100
BL	(0°-30°)	1143.9	6.1	B3/2500		
BM	(30°-60°)	5566.0	29.8	B4/8500		
BH	(60°-80°)	2592.4	13.9	B4/5000		G2/5000
BVH	(80°-90°)	31.6	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°	2256.3	2256.3	2256.3	2256.3	2256.3	2256.3	2256.3	2256.3	2256.3	2256.3	2256.3
2.5°	2265.2	2270.2	2266.2	2265.2	2264.3	2264.3	2264.3	2265.2	2269.2	2272.2	2270.2
5°	2293.9	2297.9	2295.9	2294.9	2293.9	2293.9	2292.9	2291.9	2294.9	2294.9	2293.9
7.5°	2329.5	2334.5	2332.5	2334.5	2335.4	2336.4	2331.5	2327.5	2326.5	2329.5	2327.5
10°	2378.0	2381.9	2382.9	2383.9	2385.9	2384.9	2378.9	2372.0	2371.0	2370.0	2369.1
12.5°	2432.3	2435.3	2436.3	2440.3	2443.2	2444.2	2437.3	2431.4	2421.5	2423.4	2419.5
15°	2493.6	2499.6	2498.6	2504.5	2512.4	2514.4	2507.5	2497.6	2488.7	2483.8	2480.8
17.5°	2568.8	2572.7	2570.8	2576.7	2586.6	2591.5	2585.6	2572.7	2563.8	2553.0	2547.0
20°	2657.8	2664.7	2666.7	2666.7	2675.6	2680.5	2671.6	2667.7	2653.8	2645.9	2641.0
22.5°	2758.6	2761.6	2767.5	2773.5	2782.4	2780.4	2777.4	2771.5	2758.6	2751.7	2743.8
25°	2872.3	2875.3	2890.1	2903.0	2906.0	2904.0	2900.0	2897.1	2885.2	2869.4	2863.4
27.5°	3004.8	3010.8	3030.5	3042.4	3042.4	3043.4	3035.5	3045.4	3019.7	3000.9	2998.9
30°	3170.9	3174.9	3191.7	3203.6	3197.6	3192.7	3190.7	3200.6	3172.9	3139.3	3131.4
32.5°	3335.1	3348.9	3363.7	3389.5	3368.7	3359.8	3357.8	3364.7	3333.1	3295.5	3284.6
35°	3511.1	3521.0	3548.6	3570.4	3551.6	3530.8	3539.7	3561.5	3523.9	3473.5	3471.5
37.5°	3705.9	3714.8	3750.4	3773.1	3759.3	3723.7	3738.5	3764.2	3726.6	3664.3	3651.5
40°	3908.6	3927.3	3971.8	3995.6	3972.8	3925.4	3953.0	3980.7	3947.1	3874.9	3846.3
42.5°	4136.0	4165.6	4229.9	4241.8	4198.3	4134.0	4182.4	4226.9	4203.2	4120.1	4109.3
45°	4401.9	4419.7	4498.8	4524.5	4464.2	4384.1	4444.5	4525.5	4507.7	4411.8	4391.1
47.5°	4699.6	4716.4	4798.4	4837.0	4760.9	4653.1	4761.8	4867.6	4856.8	4753.9	4744.1
50°	5051.6	5055.5	5169.2	5212.7	5136.6	5043.6	5140.5	5272.0	5228.5	5097.0	5095.1
52.5°	5437.2	5442.1	5585.5	5669.5	5627.0	5522.2	5636.9	5717.0	5606.2	5434.2	5421.4
55°	5771.4	5796.1	5991.9	6215.3	6273.7	6197.5	6232.1	6194.6	5921.7	5680.4	5642.8
57.5°	5907.8	5956.3	6253.9	6671.1	7050.8	7163.5	6896.6	6538.6	6047.2	5706.1	5669.5
60°	5574.6	5627.0	6088.8	6880.8	7849.7	8339.2	7588.7	6597.0	5761.5	5281.9	5224.6
62.5°	4464.2	4479.1	5158.3	6387.4	8315.4	9583.0	7880.4	6099.6	4929.9	4278.3	4255.6
64°	3212.5	3364.7	4084.6	5600.3	8111.8	10056.6	7712.3	5402.6	4004.5	3345.0	3238.2
65°	2402.7	2444.2	3292.6	4782.6	7752.8	10021.0	7386.0	4736.1	3316.3	2559.9	2441.2
67.5°	907.7	912.6	1215.2	2383.9	5519.2	8622.0	5636.9	2576.7	1397.1	1010.5	973.9
70°	376.7	383.6	445.9	801.9	2372.0	5536.0	2718.1	929.4	511.2	414.3	408.4
72.5°	275.9	279.8	298.6	356.0	729.7	2273.2	893.8	394.5	299.6	268.0	265.0
75°	216.5	218.5	232.4	262.0	340.1	629.8	371.8	270.9	228.4	205.7	203.7
77.5°	165.1	170.1	180.0	199.7	228.4	298.6	246.2	202.7	176.0	157.2	154.2
80°	113.7	119.6	138.4	146.3	153.3	193.8	168.1	153.3	137.4	114.7	107.8
82.5°	70.2	74.2	92.9	99.9	96.9	108.8	107.8	109.8	97.9	71.2	66.2
85°	36.6	38.6	50.4	52.4	48.4	44.5	55.4	64.3	60.3	40.5	39.6
87.5°	7.9	8.9	10.9	9.9	10.9	10.9	13.8	20.8	21.8	13.8	12.9
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)