

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: P529731

Luminaire Tested: **GALN-SA4D-830-U-5NQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529731  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4D-830-U-5NQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
NARROW OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

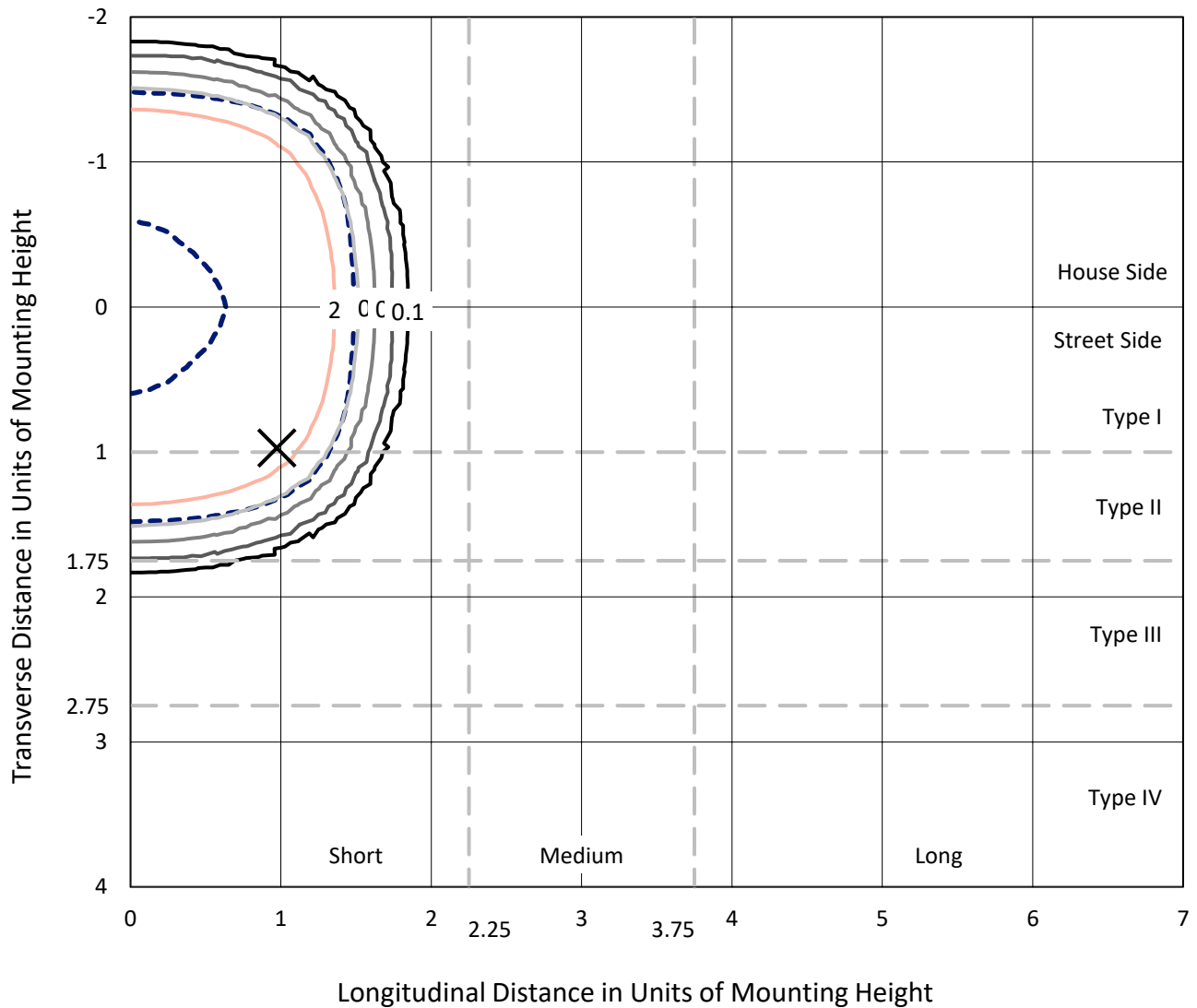
Lumens per Lamp: N/A  
Luminaire Lumens: 16706 lumens  
Efficiency: N/A  
Efficacy: 68.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G0  
  
Input Watts (W): 245  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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

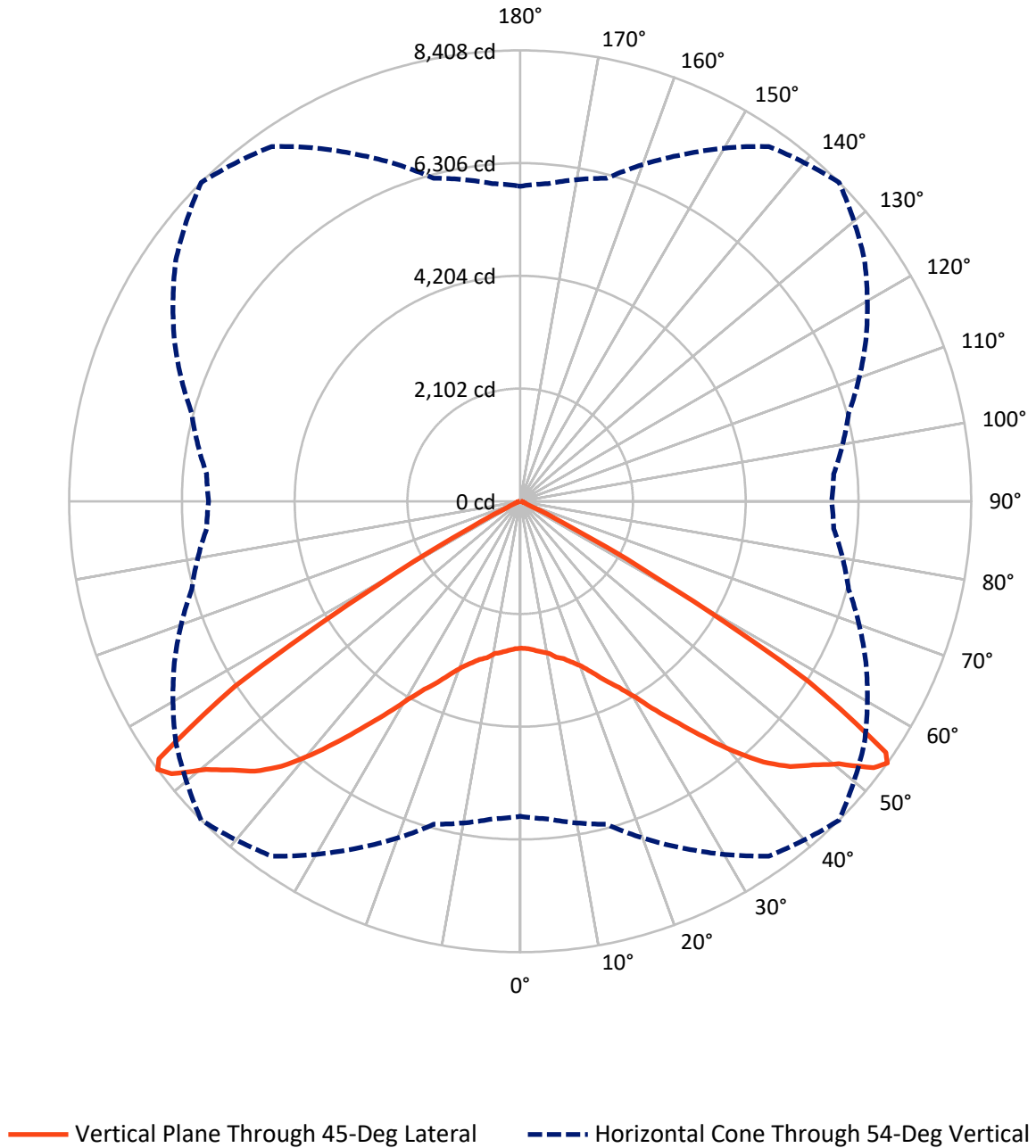
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



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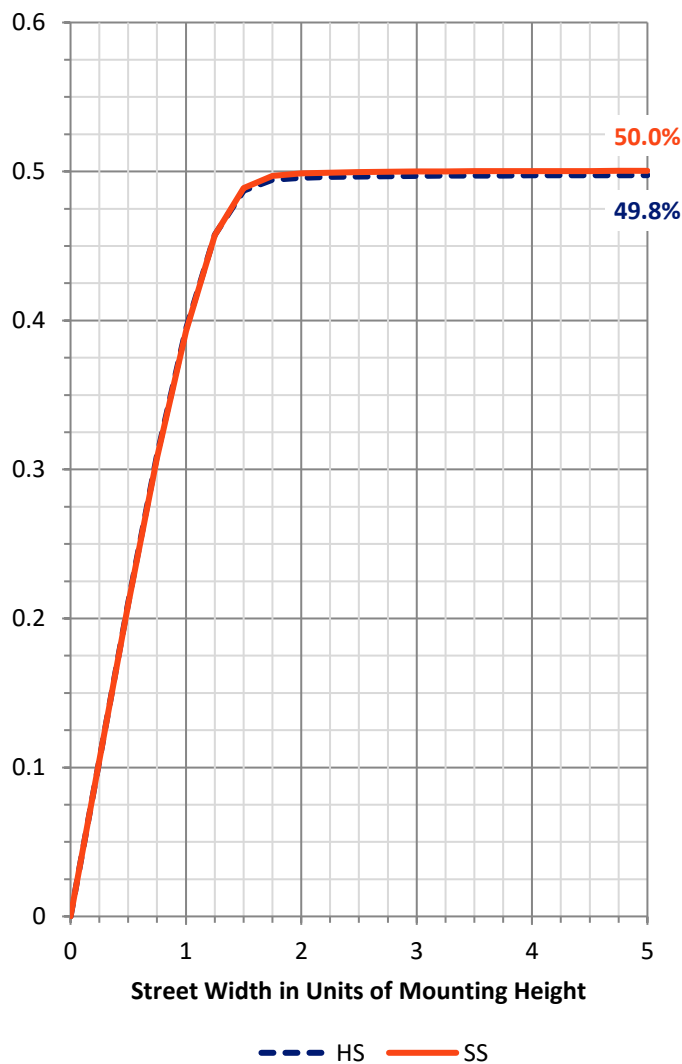
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8353.0	0.0	8353.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	8353.0	0.0	8353.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	16706.0	0.0	16706.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	268.1	1.6
10°-20°	868.2	5.2
20°-30°	1701.7	10.2
30°-40°	3060.0	18.3
40°-50°	5238.1	31.4
50°-60°	5068.4	30.3
60°-70°	433.9	2.6
70°-80°	51.4	0.3
80°-90°	16.1	0.1
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°	16706.0	100.0
0°-180°	16706.0	100.0

**Coefficient of Utilization**

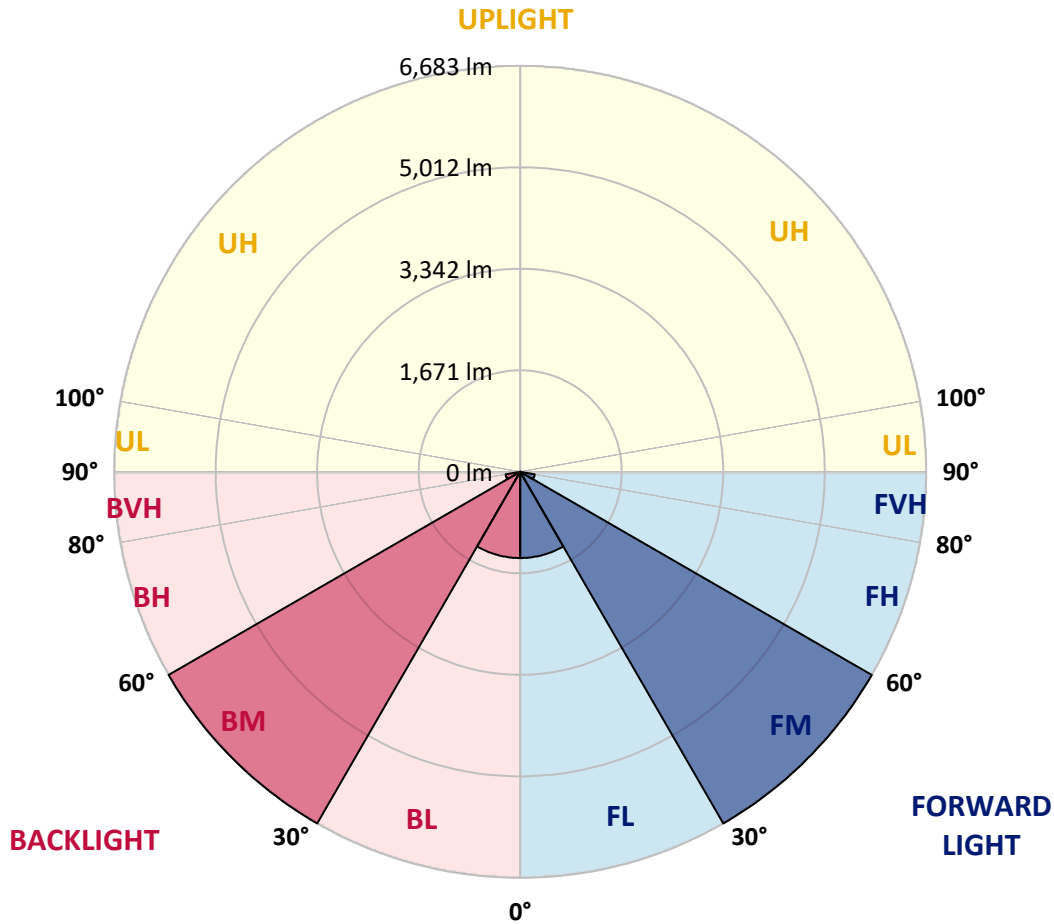


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1419.0	8.5			
FM (30°-60°)	6683.3	40.0			
FH (60°-80°)	242.7	1.5			G0/660
FVH (80°-90°)	8.1	0.0			G0/10
BL (0°-30°)	1419.0	8.5	B3/2500		
BM (30°-60°)	6683.3	40.0	B4/8500		
BH (60°-80°)	242.7	1.5	B1/500		G0/660
BVH (80°-90°)	8.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G0**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2739.3	2739.3	2739.3	2739.3	2739.3	2739.3	2739.3	2739.3	2739.3	2739.3	2739.3
2.5°	2752.5	2768.4	2757.8	2765.7	2765.7	2752.5	2760.4	2728.7	2749.9	2734.0	2736.6
5°	2794.8	2792.2	2792.2	2794.8	2784.3	2789.5	2779.0	2768.4	2760.4	2749.9	2781.6
7.5°	2847.8	2847.8	2829.2	2834.5	2829.2	2837.2	2816.0	2794.8	2786.9	2779.0	2773.7
10°	2898.1	2892.8	2884.8	2908.6	2890.1	2879.5	2868.9	2855.7	2826.6	2816.0	2805.4
12.5°	2972.2	2969.5	2958.9	2982.8	2972.2	2982.8	2943.1	2908.6	2903.4	2868.9	2887.5
15°	3059.5	3083.3	3064.8	3064.8	3059.5	3046.3	3030.4	3014.5	2966.9	2953.6	2956.3
17.5°	3173.3	3165.4	3168.0	3168.0	3194.5	3160.1	3128.3	3088.6	3064.8	3056.9	3030.4
20°	3281.8	3292.4	3289.8	3308.3	3324.2	3287.1	3252.7	3247.4	3181.3	3191.8	3154.8
22.5°	3472.4	3464.4	3477.7	3490.9	3480.3	3475.0	3443.3	3403.6	3345.3	3318.9	3313.6
25°	3673.5	3660.3	3636.5	3668.2	3684.1	3707.9	3647.1	3625.9	3535.9	3496.2	3498.8
27.5°	3845.6	3864.1	3890.5	3903.8	3943.5	3935.5	3893.2	3824.4	3755.6	3710.6	3681.5
30°	4081.1	4091.7	4136.7	4155.2	4224.0	4242.6	4176.4	4097.0	3975.2	3917.0	3882.6
32.5°	4298.1	4372.2	4369.6	4462.2	4573.4	4650.1	4531.0	4409.3	4287.5	4218.7	4157.9
35°	4650.1	4636.9	4713.7	4811.6	4991.5	5078.9	4949.2	4808.9	4623.7	4512.5	4464.9
37.5°	4978.3	4983.6	5086.8	5243.0	5449.4	5584.4	5470.6	5240.3	5049.8	4906.9	4840.7
40°	5454.7	5465.3	5571.2	5748.5	5981.4	6127.0	5994.6	5761.7	5507.6	5396.5	5396.5
42.5°	6013.1	6058.1	6127.0	6280.5	6489.5	6651.0	6531.9	6349.3	6092.5	5949.6	5970.8
45°	6587.5	6608.6	6653.6	6881.2	6979.2	7058.6	6947.4	6862.7	6690.7	6516.0	6486.9
47.5°	7124.7	7132.7	7265.0	7336.5	7413.2	7347.0	7418.5	7307.3	7114.1	6944.8	6910.4
50°	7362.9	7349.7	7537.6	7754.6	7812.9	7696.4	7635.5	7561.4	7267.6	7063.9	6973.9
52.5°	6669.5	6746.3	7095.6	7699.1	8154.3	8252.2	7897.5	7556.1	7008.3	6611.3	6550.4
54°	5875.5	5947.0	6235.5	7130.0	8077.5	8408.3	7836.7	7111.5	6338.7	5867.6	5806.7
55°	5089.5	5010.1	5534.1	6447.2	7717.6	8270.7	7595.8	6537.2	5653.2	5221.8	5137.1
57.5°	2755.1	2768.4	3210.4	4073.2	5422.9	6341.3	5600.3	4422.5	3340.0	2855.7	2813.4
60°	873.4	894.6	1087.8	1646.2	2591.1	3093.9	2651.9	1775.9	1228.0	984.5	944.8
62.5°	272.6	283.2	309.7	460.5	709.3	1013.7	794.0	476.4	354.6	325.5	330.8
65°	166.7	166.7	169.4	180.0	211.7	246.1	238.2	209.1	201.1	195.9	193.2
67.5°	108.5	105.9	111.2	119.1	124.4	127.0	135.0	142.9	140.3	135.0	135.0
70°	66.2	63.5	68.8	79.4	82.0	87.3	95.3	105.9	103.2	97.9	100.6
72.5°	37.1	37.1	39.7	47.6	55.6	60.9	68.8	76.8	79.4	76.8	76.8
75°	13.2	15.9	21.2	29.1	34.4	42.3	50.3	58.2	66.2	60.9	58.2
77.5°	5.3	5.3	10.6	18.5	26.5	34.4	47.6	55.6	60.9	55.6	50.3
80°	2.6	2.6	7.9	15.9	23.8	31.8	39.7	47.6	50.3	45.0	39.7
82.5°	2.6	2.6	7.9	15.9	23.8	29.1	42.3	47.6	52.9	47.6	39.7
85°	0.0	2.6	7.9	15.9	21.2	23.8	23.8	15.9	13.2	7.9	7.9
87.5°	0.0	0.0	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)