

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: P529607

Luminaire Tested: **GALN-SA4D-735-U-RW-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529607
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-7)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4D-735-U-RW-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18423 lumens
Efficiency: N/A
Efficacy: 75.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

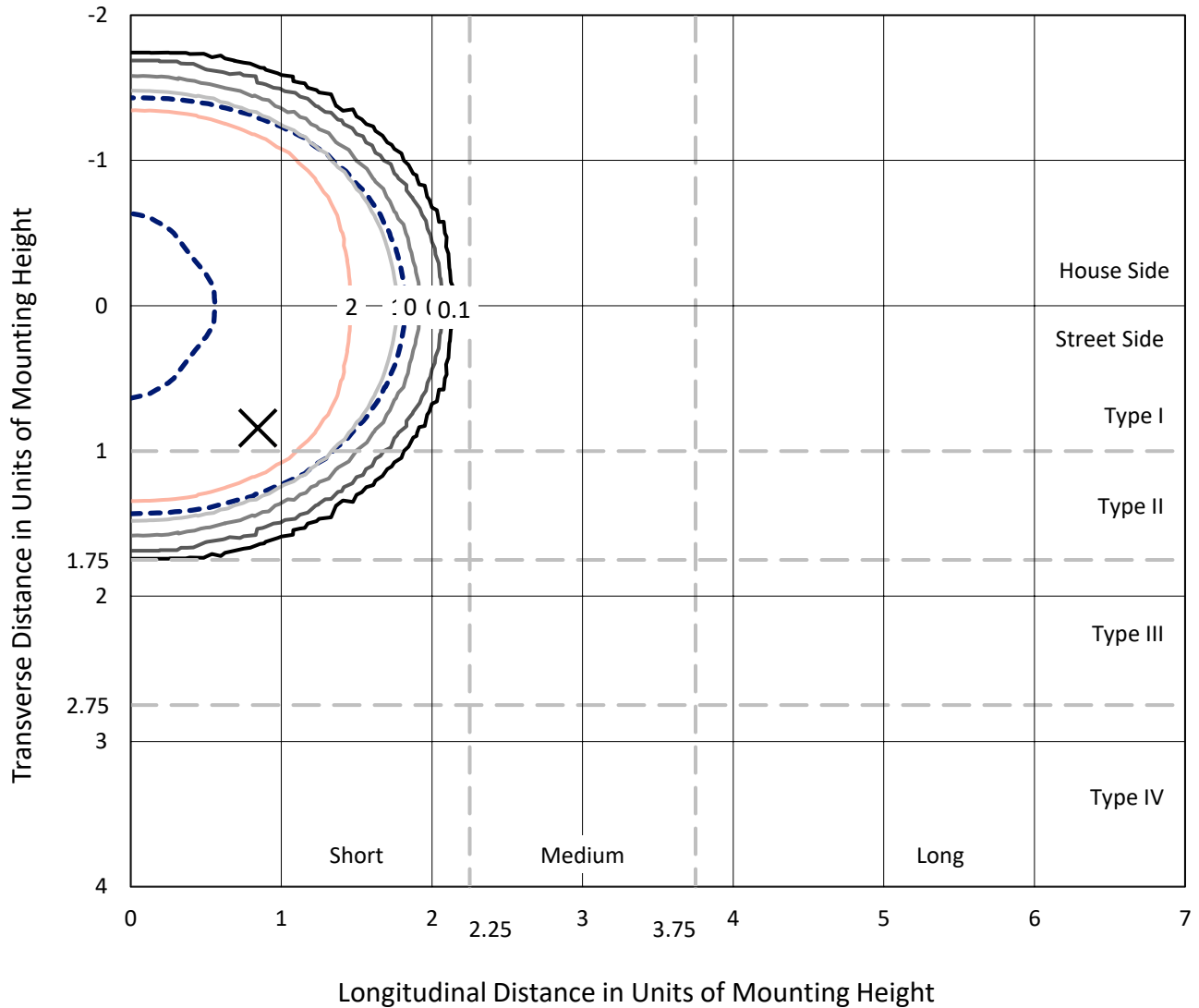
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

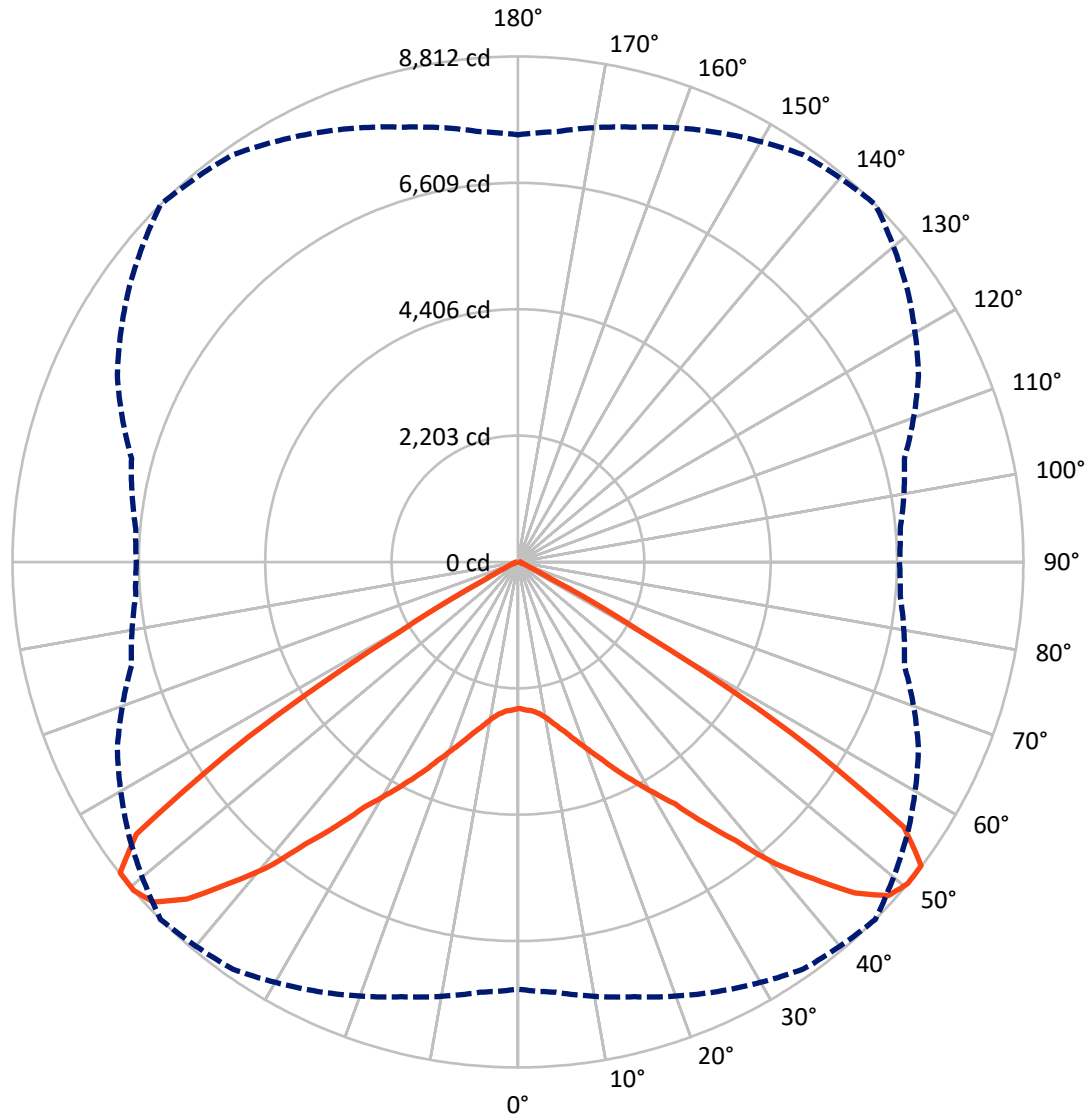
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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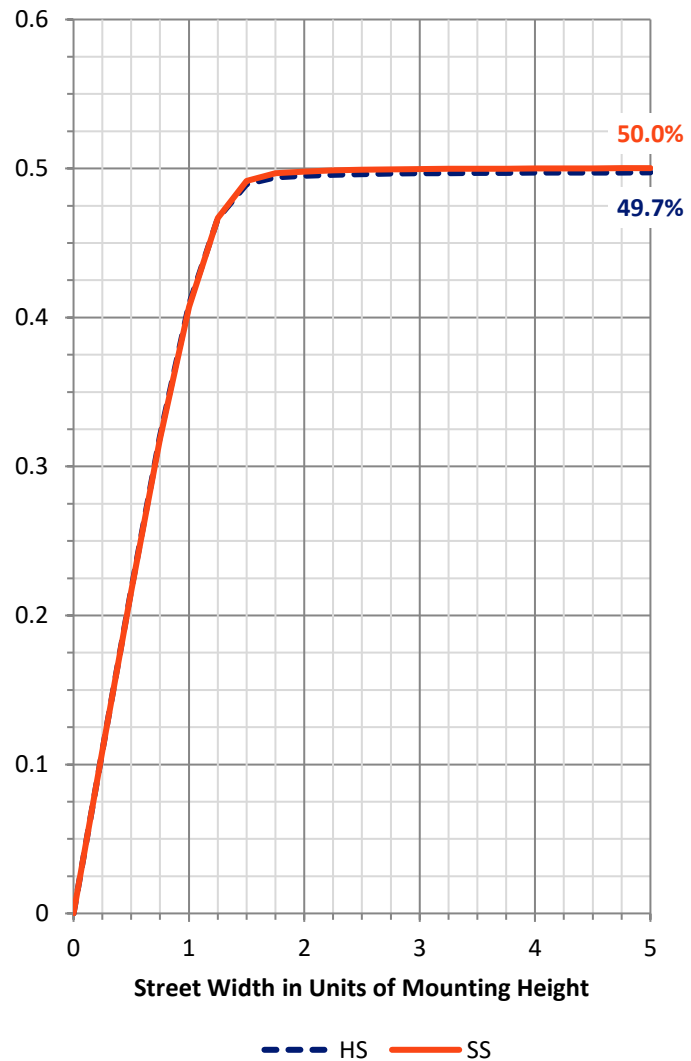
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9211.5	0.0	9211.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9211.5	0.0	9211.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	18423.0	0.0	18423.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.1	1.4
10°-20°	875.8	4.8
20°-30°	1788.7	9.7
30°-40°	3411.0	18.5
40°-50°	5748.0	31.2
50°-60°	5481.8	29.8
60°-70°	765.2	4.2
70°-80°	73.2	0.4
80°-90°	25.3	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°	18423.0	100.0
0°-180°	18423.0	100.0



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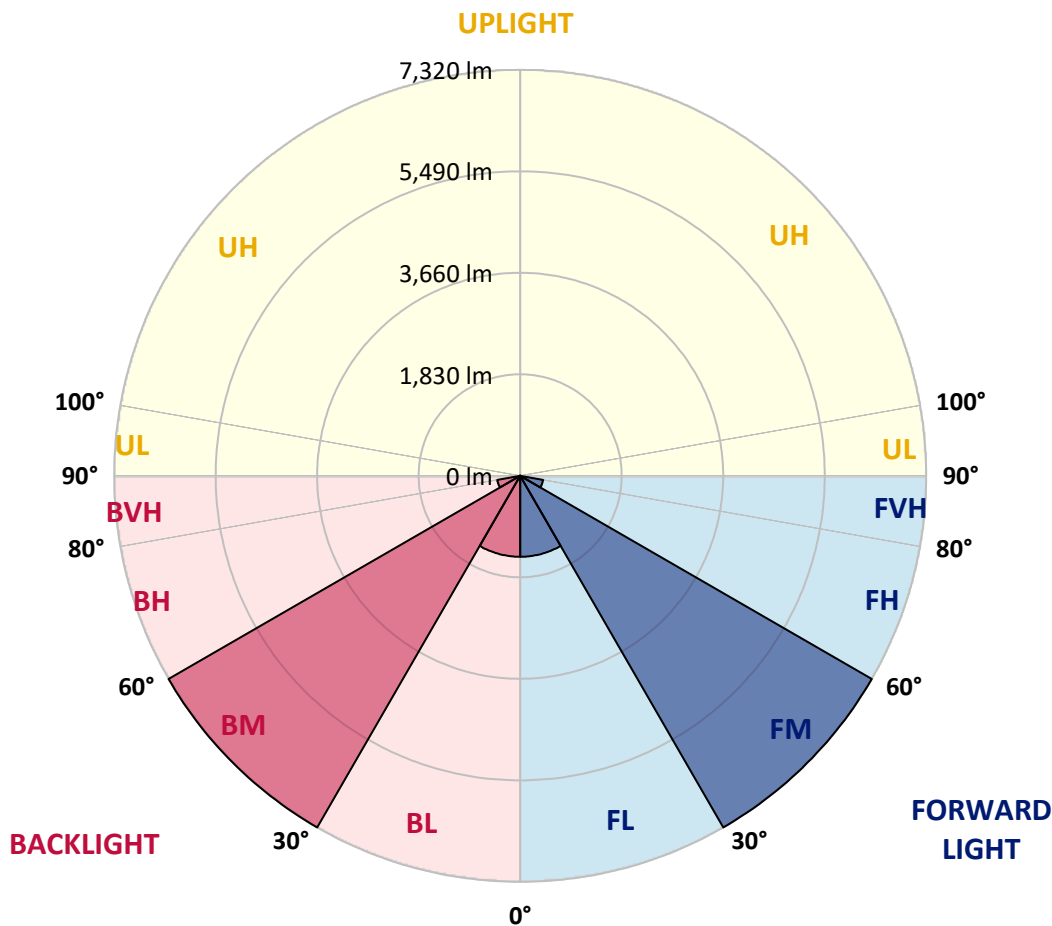
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1459.3	7.9			
FM (30°-60°)	7320.4	39.7			
FH (60°-80°)	419.2	2.3			G0/660
FVH (80°-90°)	12.6	0.1			G1/100
BL (0°-30°)	1459.3	7.9	B3/2500		
BM (30°-60°)	7320.4	39.7	B4/8500		
BH (60°-80°)	419.2	2.3	B1/500		G0/660
BVH (80°-90°)	12.6	0.1			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°	2554.1	2554.1	2554.1	2554.1	2554.1	2554.1	2554.1	2554.1	2554.1	2554.1	2554.1
2.5°	2544.8	2544.8	2541.7	2566.5	2554.1	2582.0	2578.9	2588.2	2597.5	2594.4	2619.2
5°	2523.1	2520.0	2520.0	2547.9	2575.8	2606.8	2634.7	2653.3	2684.3	2684.3	2715.3
7.5°	2544.8	2529.3	2551.0	2563.4	2616.1	2668.8	2715.3	2752.5	2823.8	2848.6	2839.3
10°	2551.0	2569.6	2585.1	2622.3	2687.4	2768.0	2808.3	2901.3	2981.9	3037.7	3050.1
12.5°	2591.3	2619.2	2662.6	2752.5	2811.4	2916.8	2972.6	3062.5	3174.1	3236.1	3279.5
15°	2668.8	2678.1	2733.9	2848.6	2975.7	3071.8	3158.6	3223.7	3332.2	3403.5	3406.6
17.5°	2768.0	2808.3	2885.8	2994.3	3127.6	3270.2	3338.4	3409.7	3450.0	3546.0	3567.7
20°	2966.4	2972.6	3047.0	3189.6	3357.0	3487.2	3536.7	3573.9	3558.4	3657.6	3676.2
22.5°	3152.4	3158.6	3251.6	3443.8	3623.5	3735.1	3756.8	3735.1	3688.6	3759.9	3766.1
25°	3341.5	3397.3	3465.5	3657.6	3880.8	4029.6	4032.7	3973.8	3877.7	3890.1	3921.1
27.5°	3635.9	3676.2	3747.5	3924.2	4169.1	4336.5	4308.6	4237.3	4113.3	4122.6	4113.3
30°	3980.0	4017.2	4076.1	4302.4	4482.2	4665.0	4705.3	4637.1	4451.2	4410.9	4457.4
32.5°	4395.4	4448.1	4556.5	4764.2	4916.1	5027.7	5055.6	5030.8	4857.2	4841.7	4872.7
35°	4900.6	4971.9	5071.1	5254.0	5378.0	5579.4	5579.4	5495.8	5337.7	5356.3	5353.2
37.5°	5433.8	5539.1	5694.1	5880.1	6047.5	6156.0	6121.9	6050.6	5892.5	5852.2	5892.5
40°	6103.3	6156.0	6351.3	6593.0	6797.6	6921.6	6775.9	6620.9	6242.8	6301.7	6410.2
42.5°	6713.9	6797.6	6946.4	7213.0	7445.5	7547.8	7374.2	7067.3	6611.6	6565.1	6645.7
45°	7234.7	7324.6	7519.9	7901.1	8146.0	8235.9	7851.5	7355.6	6834.8	6717.0	6751.1
47.5°	7581.8	7628.3	7901.1	8263.8	8487.0	8691.5	8139.8	7553.9	6940.2	6717.0	6704.6
50°	7448.6	7529.2	7848.4	8260.7	8666.7	8812.4	8285.5	7705.8	6974.3	6689.1	6651.9
52.5°	6614.7	6754.2	7110.7	7665.5	8279.3	8800.0	8487.0	7656.2	6961.9	6717.0	6772.8
55°	4603.0	4606.1	5040.1	5858.4	6943.3	8170.8	8192.5	7712.0	7042.5	6890.6	6893.7
57.5°	1850.5	1943.5	2275.2	3096.6	4097.8	5610.4	6670.5	7154.1	7051.8	7014.6	7110.7
60°	468.1	471.2	573.4	874.1	1441.4	2405.4	3493.4	4727.0	5443.1	5687.9	5722.0
62.5°	238.7	241.8	266.6	310.0	393.7	644.7	1146.9	1819.5	2588.2	2978.8	3081.1
65°	195.3	195.3	210.8	232.5	235.6	248.0	297.6	424.7	616.8	700.5	709.8
67.5°	148.8	148.8	161.2	173.6	179.8	176.7	170.5	176.7	213.9	204.6	198.4
70°	93.0	96.1	102.3	114.7	120.9	124.0	127.1	133.3	151.9	158.1	151.9
72.5°	55.8	55.8	58.9	68.2	77.5	83.7	93.0	99.2	108.5	124.0	120.9
75°	24.8	24.8	31.0	40.3	49.6	58.9	68.2	77.5	83.7	93.0	96.1
77.5°	6.2	9.3	15.5	27.9	37.2	49.6	62.0	71.3	77.5	77.5	74.4
80°	3.1	3.1	12.4	21.7	40.3	52.7	68.2	74.4	83.7	77.5	68.2
82.5°	3.1	3.1	12.4	21.7	37.2	52.7	71.3	80.6	86.8	77.5	65.1
85°	0.0	3.1	9.3	18.6	31.0	37.2	31.0	21.7	12.4	12.4	9.3
87.5°	0.0	0.0	3.1	3.1	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)