

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: P647376

Luminaire Tested: **GALN-SA4D-835-U-RW-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647376
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-835-U-RW-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 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: 15485.4 lumens
Efficiency: N/A
Efficacy: 63.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

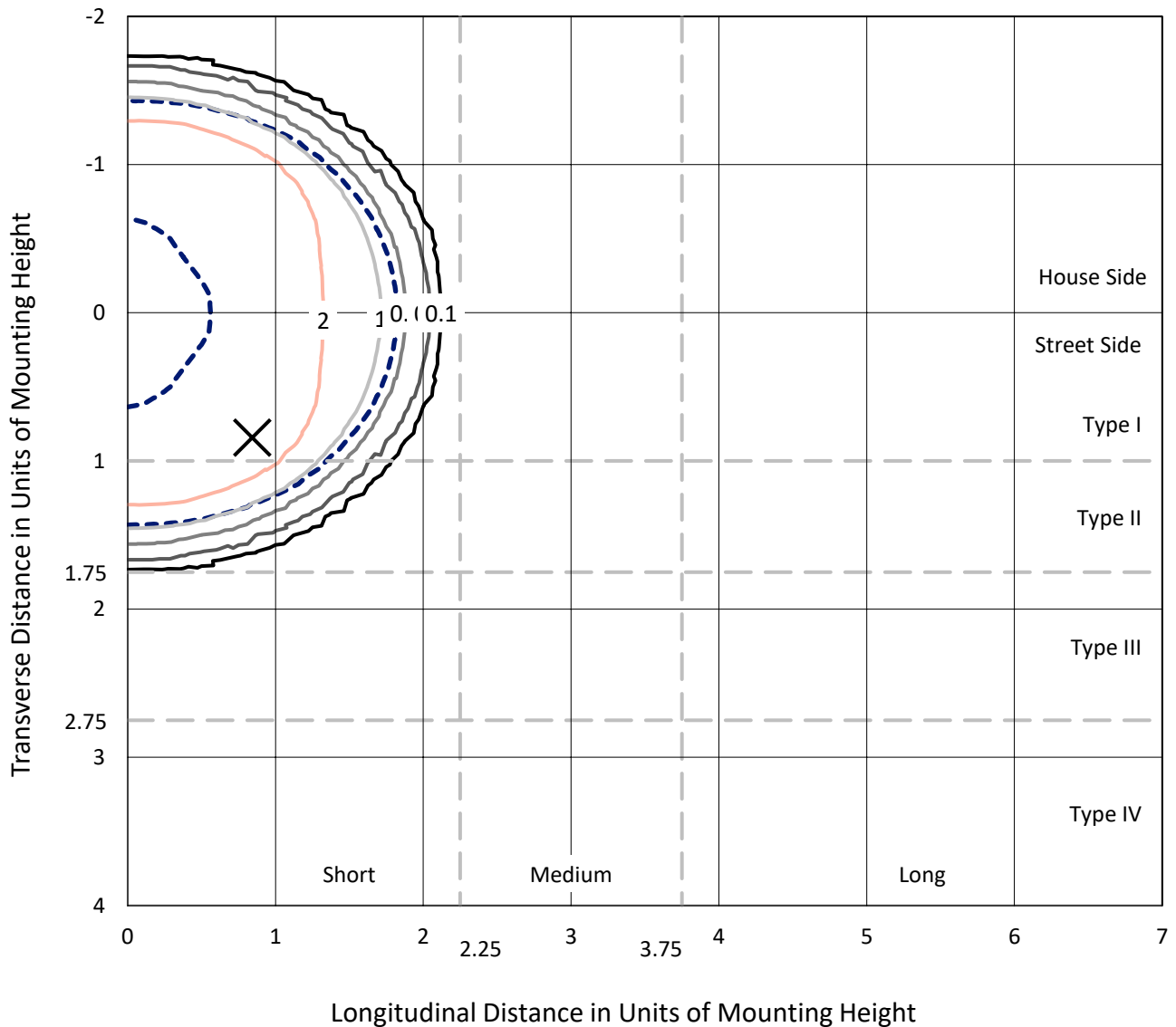
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

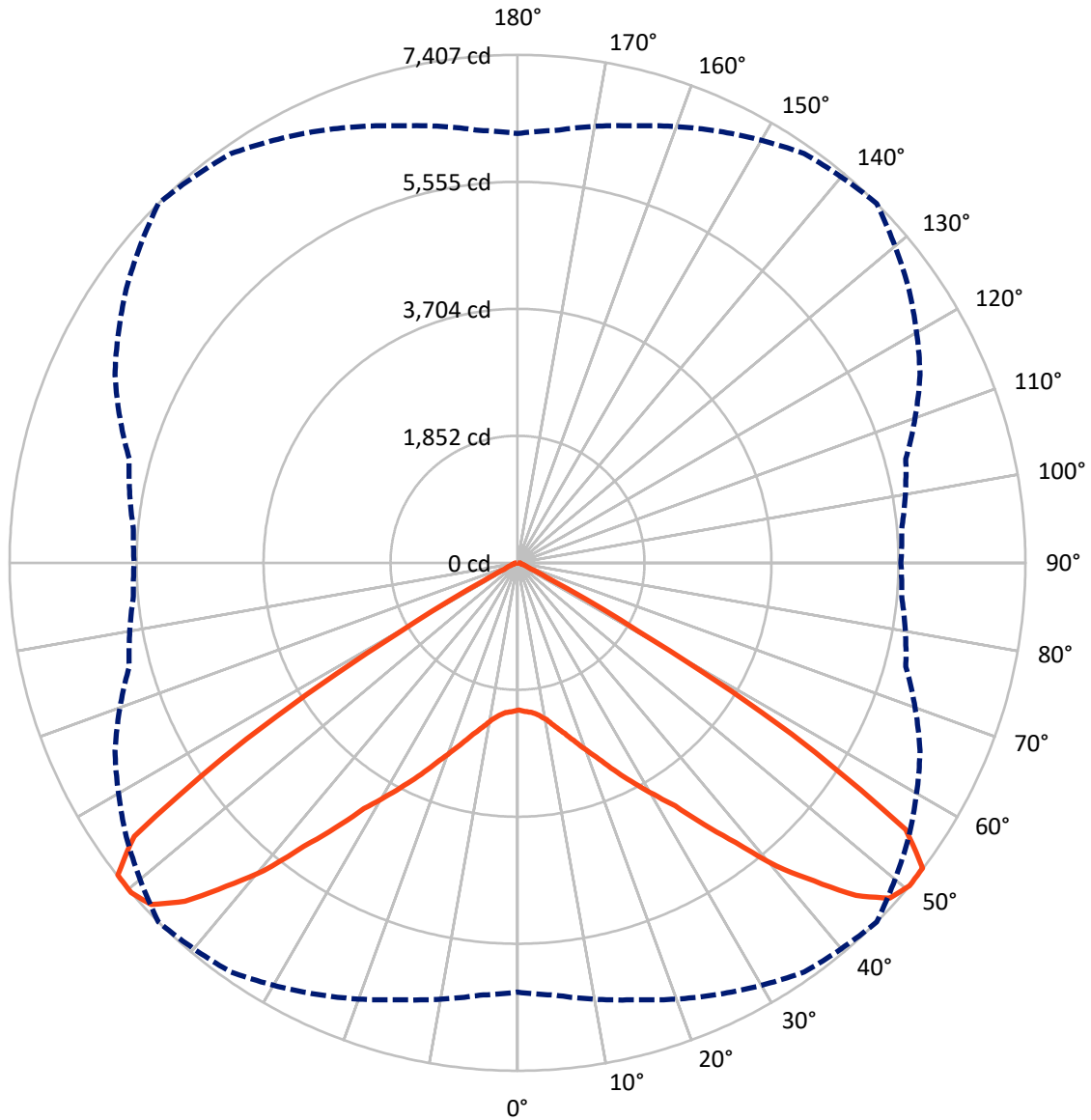
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 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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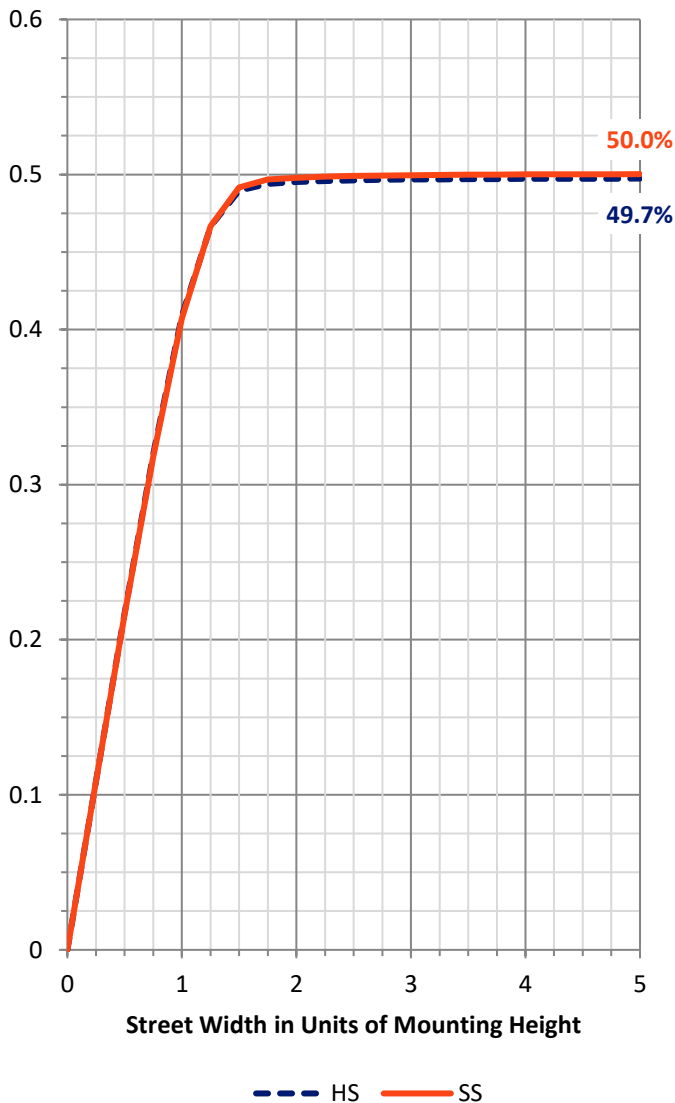
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7742.7	0.0	7742.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7742.7	0.0	7742.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	15485.4	0.0	15485.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.6	1.4
10°-20°	736.1	4.8
20°-30°	1503.5	9.7
30°-40°	2867.1	18.5
40°-50°	4831.5	31.2
50°-60°	4607.7	29.8
60°-70°	643.2	4.2
70°-80°	61.5	0.4
80°-90°	21.2	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°	15485.4	100.0
0°-180°	15485.4	100.0

Coefficient of Utilization



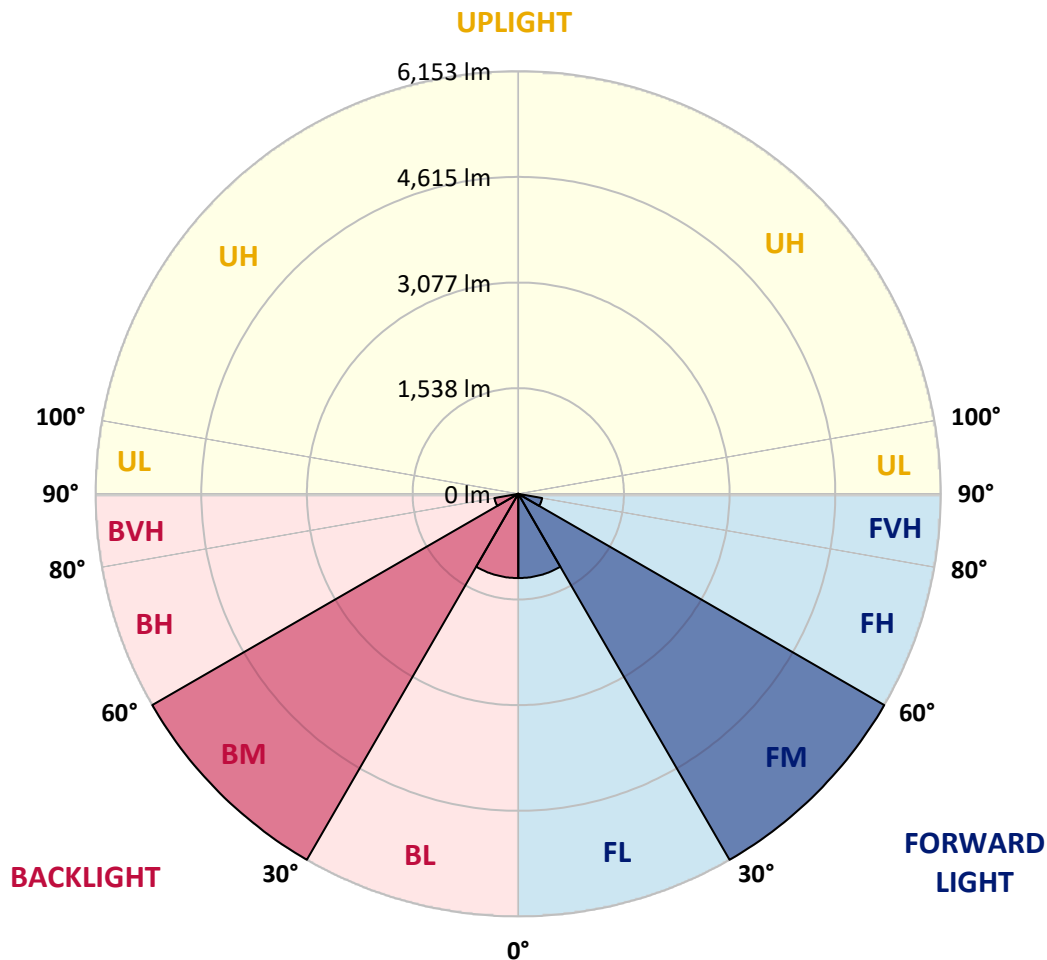
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1226.6	7.9			
FM (30°-60°)	6153.1	39.7			
FH (60°-80°)	352.4	2.3			G0/660
FVH (80°-90°)	10.6	0.1			G1/100
BL (0°-30°)	1226.6	7.9	B3/2500		
BM (30°-60°)	6153.1	39.7	B4/8500		
BH (60°-80°)	352.4	2.3	B1/500		G0/660
BVH (80°-90°)	10.6	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°	2146.9	2146.9	2146.9	2146.9	2146.9	2146.9	2146.9	2146.9	2146.9	2146.9	2146.9
2.5°	2139.1	2139.1	2136.5	2157.3	2146.9	2170.3	2167.7	2175.6	2183.3	2180.7	2201.6
5°	2120.8	2118.2	2118.2	2141.7	2165.2	2191.1	2214.6	2230.2	2256.3	2256.3	2282.4
7.5°	2139.1	2126.0	2144.2	2154.7	2199.0	2243.3	2282.4	2313.6	2373.6	2394.4	2386.6
10°	2144.2	2159.9	2172.9	2204.2	2258.9	2326.7	2360.5	2438.7	2506.5	2553.4	2563.8
12.5°	2178.1	2201.6	2238.0	2313.6	2363.1	2451.7	2498.6	2574.2	2668.0	2720.1	2756.6
15°	2243.3	2251.1	2298.0	2394.4	2501.2	2582.0	2654.9	2709.6	2800.9	2860.8	2863.4
17.5°	2326.7	2360.5	2425.7	2516.9	2628.9	2748.7	2806.0	2866.0	2899.8	2980.6	2998.9
20°	2493.4	2498.6	2561.1	2681.0	2821.7	2931.1	2972.8	3004.1	2991.1	3074.4	3090.0
22.5°	2649.8	2654.9	2733.1	2894.7	3045.8	3139.5	3157.8	3139.5	3100.4	3160.4	3165.6
25°	2808.6	2855.5	2912.8	3074.4	3262.0	3387.1	3389.7	3340.2	3259.4	3269.8	3295.9
27.5°	3056.2	3090.0	3150.0	3298.5	3504.3	3645.0	3621.5	3561.6	3457.4	3465.2	3457.4
30°	3345.4	3376.6	3426.2	3616.4	3767.5	3921.2	3955.1	3897.7	3741.4	3707.5	3746.7
32.5°	3694.5	3738.8	3830.0	4004.6	4132.2	4226.0	4249.5	4228.6	4082.7	4069.7	4095.7
35°	4119.2	4179.1	4262.5	4416.2	4520.4	4689.8	4689.8	4619.5	4486.6	4502.2	4499.6
37.5°	4567.3	4656.0	4786.2	4942.5	5083.2	5174.4	5145.7	5085.8	4952.9	4919.0	4952.9
40°	5130.1	5174.4	5338.6	5541.8	5713.7	5817.9	5695.5	5565.2	5247.4	5296.8	5388.1
42.5°	5643.4	5713.7	5838.8	6062.8	6258.3	6344.3	6198.3	5940.4	5557.4	5518.3	5586.1
45°	6081.1	6156.7	6320.8	6641.2	6847.1	6922.7	6599.6	6182.7	5744.9	5646.0	5674.6
47.5°	6372.9	6412.0	6641.2	6946.1	7133.7	7305.6	6841.9	6349.4	5833.6	5646.0	5635.6
50°	6260.9	6328.6	6596.9	6943.5	7284.8	7407.3	6964.3	6477.1	5862.2	5622.6	5591.2
52.5°	5560.0	5677.2	5976.9	6443.2	6959.1	7396.8	7133.7	6435.4	5851.8	5646.0	5692.9
55°	3869.0	3871.7	4236.4	4924.3	5836.2	6867.9	6886.2	6482.3	5919.6	5791.9	5794.5
57.5°	1555.4	1633.6	1912.4	2602.8	3444.4	4715.9	5606.9	6013.4	5927.4	5896.1	5976.9
60°	393.5	396.0	482.0	734.8	1211.5	2021.8	2936.3	3973.3	4575.1	4781.0	4809.7
62.5°	200.6	203.2	224.1	260.6	330.9	541.9	964.0	1529.4	2175.6	2503.8	2589.8
65°	164.1	164.1	177.2	195.4	198.0	208.4	250.1	357.0	518.5	588.8	596.6
67.5°	125.0	125.0	135.5	145.9	151.1	148.5	143.3	148.5	179.8	171.9	166.8
70°	78.1	80.8	86.0	96.4	101.6	104.2	106.8	112.0	127.6	132.9	127.6
72.5°	46.9	46.9	49.5	57.3	65.1	70.3	78.1	83.4	91.2	104.2	101.6
75°	20.8	20.8	26.1	33.9	41.7	49.5	57.3	65.1	70.3	78.1	80.8
77.5°	5.2	7.8	13.0	23.4	31.2	41.7	52.1	59.9	65.1	65.1	62.6
80°	2.6	2.6	10.4	18.2	33.9	44.3	57.3	62.6	70.3	65.1	57.3
82.5°	2.6	2.6	10.4	18.2	31.2	44.3	59.9	67.7	73.0	65.1	54.7
85°	0.0	2.6	7.8	15.7	26.1	31.2	26.1	18.2	10.4	10.4	7.8
87.5°	0.0	0.0	2.6	2.6	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)