

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: P647424

Luminaire Tested: **GALN-SA5D-835-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647424
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5D-835-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15822.9 lumens
Efficiency: N/A
Efficacy: 51.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

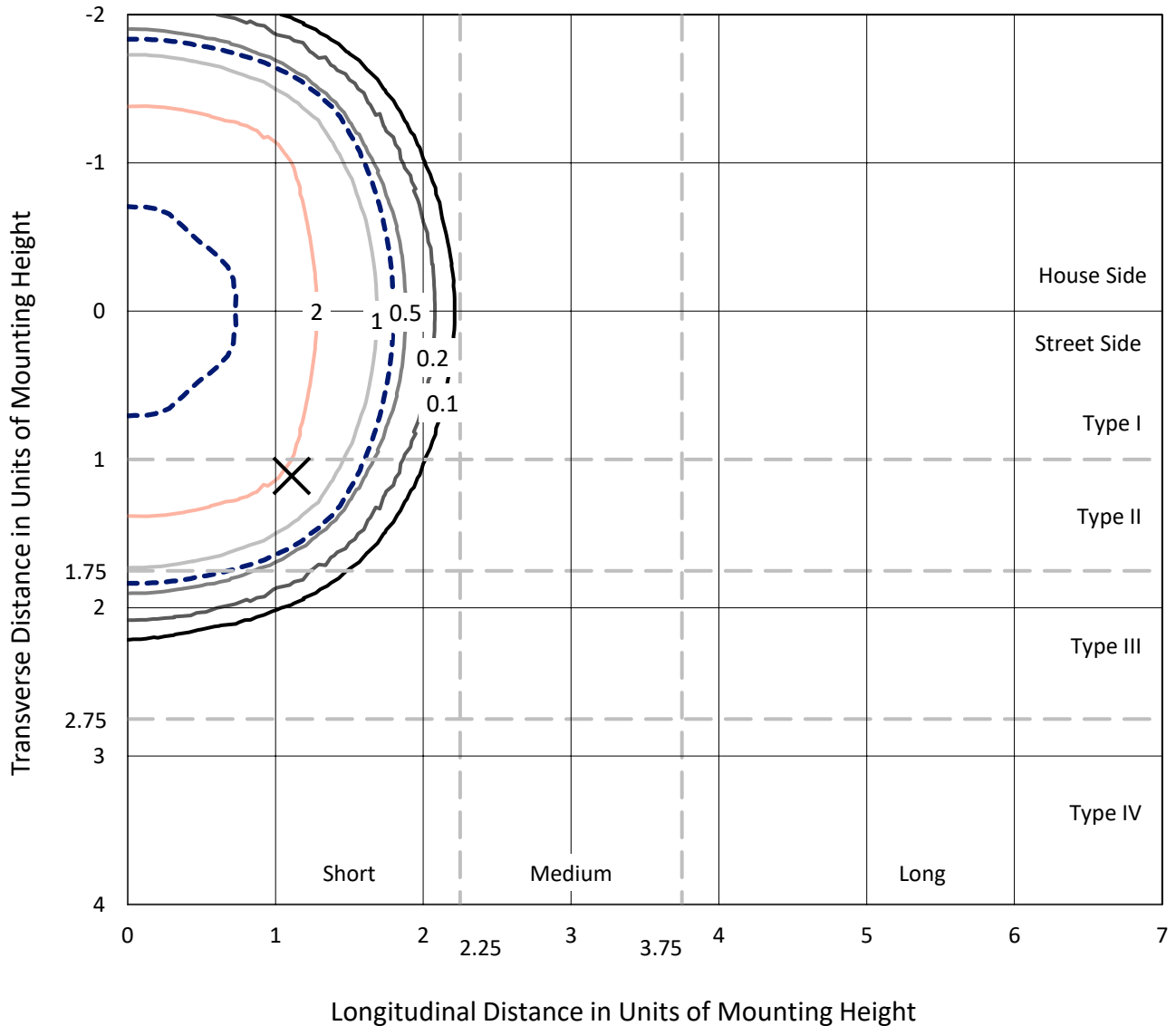
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

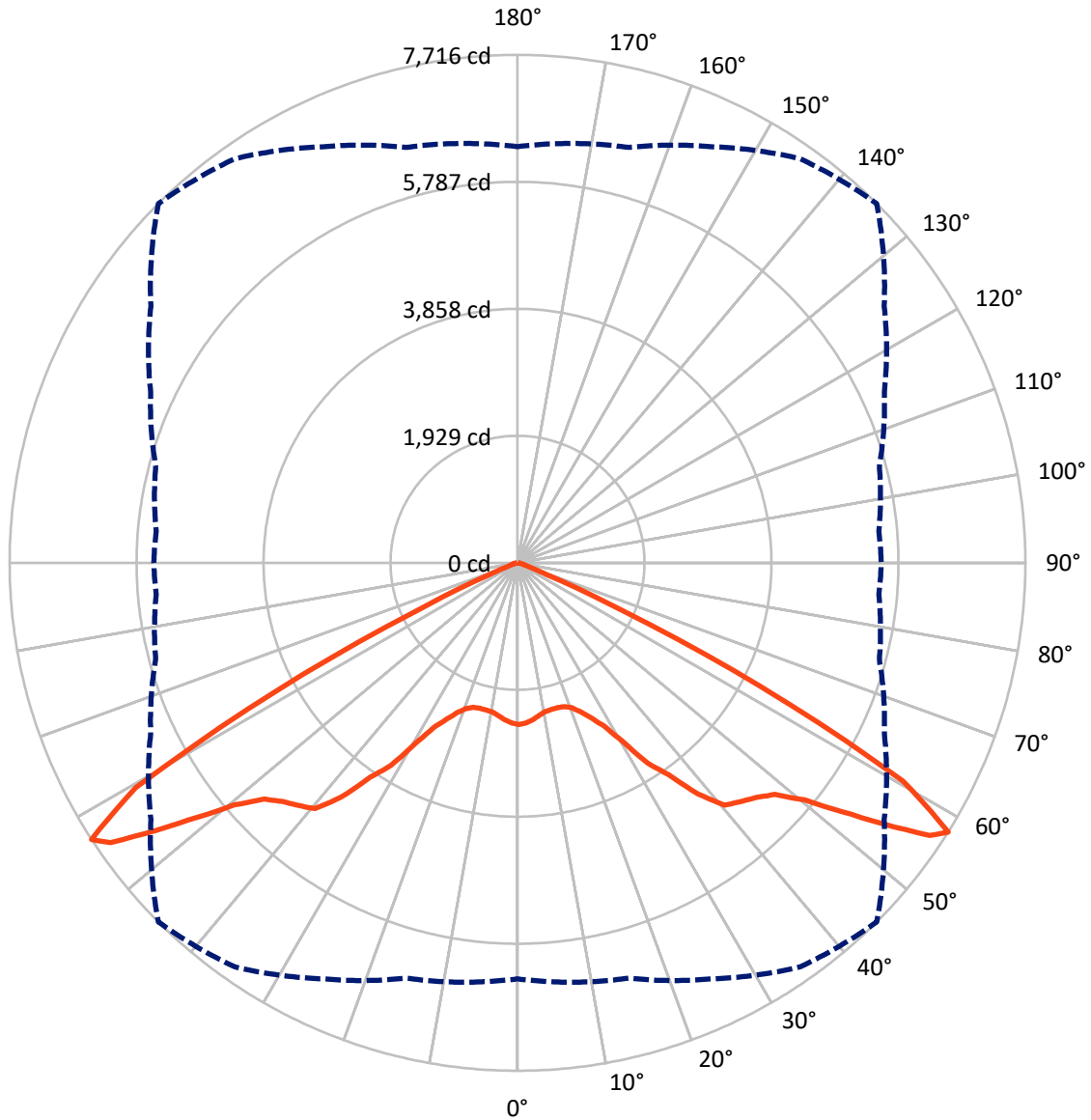
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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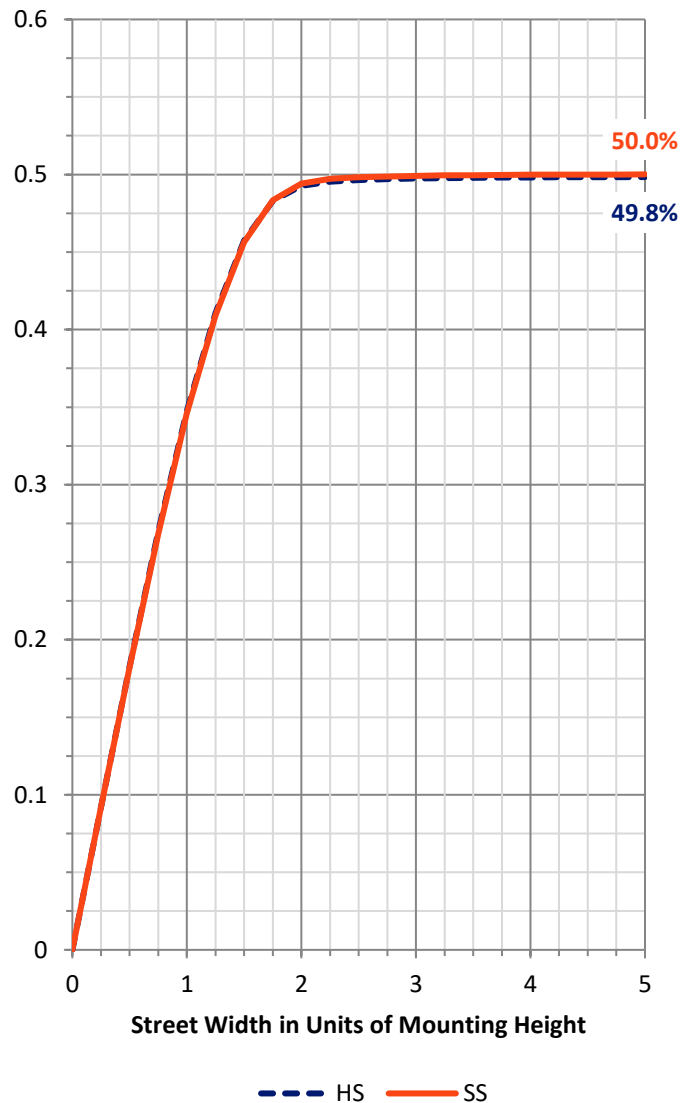
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7911.4	0.0	7911.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7911.4	0.0	7911.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	15822.9	0.0	15822.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.5	1.4
10°-20°	651.9	4.1
20°-30°	1203.3	7.6
30°-40°	2366.5	15.0
40°-50°	3854.4	24.4
50°-60°	5496.8	34.7
60°-70°	1903.1	12.0
70°-80°	102.1	0.6
80°-90°	19.2	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°	15822.9	100.0
0°-180°	15822.9	100.0

Coefficient of Utilization

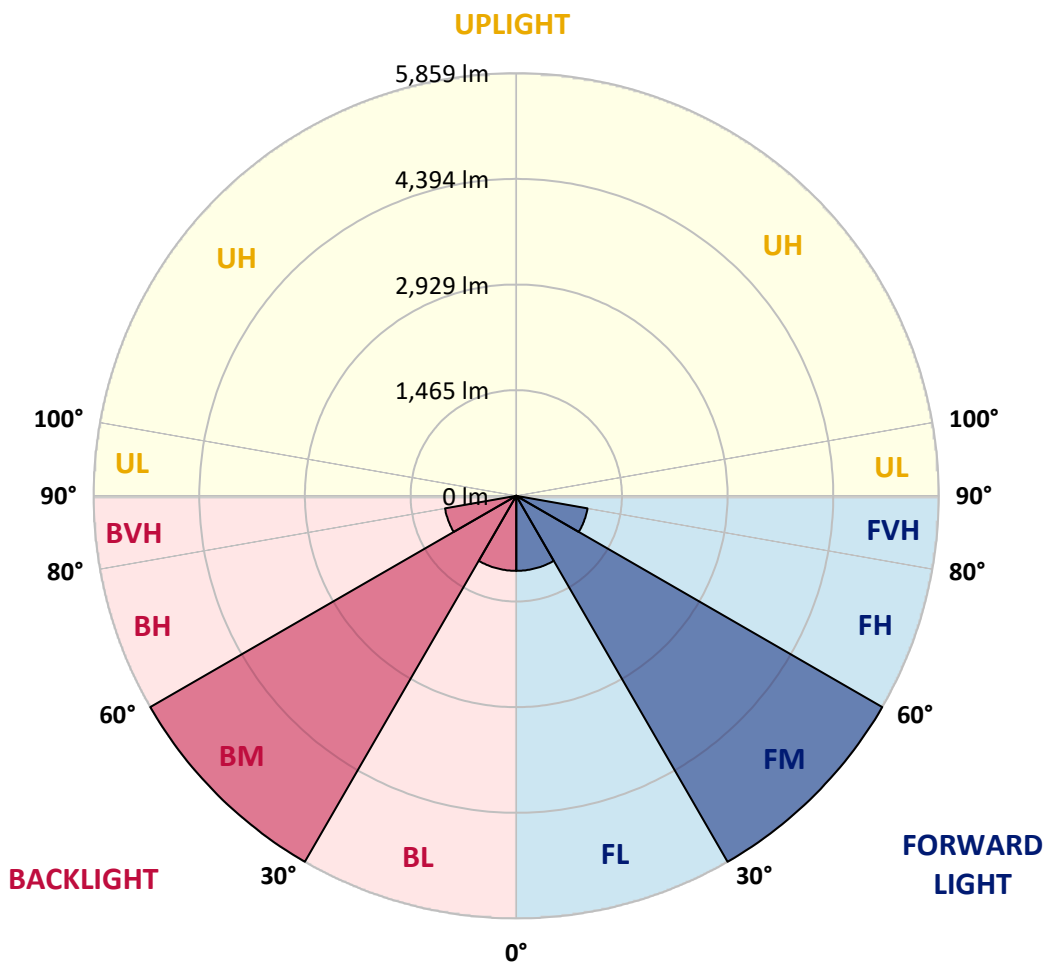


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1040.4	6.6			
FM (30°-60°)	5858.8	37.0			
FH (60°-80°)	1002.6	6.3			G1/1800
FVH (80°-90°)	9.6	0.1			G0/10
BL (0°-30°)	1040.4	6.6	B3/2500		
BM (30°-60°)	5858.8	37.0	B4/8500		
BH (60°-80°)	1002.6	6.3	B3/2500		G1/1800
BVH (80°-90°)	9.6	0.1			G0/10
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°	2454.3	2454.3	2454.3	2454.3	2454.3	2454.3	2454.3	2454.3	2454.3	2454.3	2454.3
2.5°	2447.7	2460.9	2444.4	2437.8	2434.5	2434.5	2424.6	2424.6	2421.3	2424.6	2411.4
5°	2408.1	2421.3	2421.3	2418.0	2398.3	2394.9	2385.0	2378.4	2381.7	2368.5	2378.4
7.5°	2368.5	2378.4	2365.2	2361.9	2355.3	2342.1	2338.8	2309.1	2312.4	2312.4	2319.0
10°	2361.9	2358.6	2338.8	2322.4	2302.6	2299.3	2289.3	2282.8	2282.8	2279.5	2289.3
12.5°	2361.9	2345.4	2342.1	2305.9	2272.9	2286.0	2259.7	2243.1	2266.2	2272.9	2286.0
15°	2358.6	2375.2	2319.0	2302.6	2279.5	2282.8	2259.7	2243.1	2256.4	2262.9	2272.9
17.5°	2378.4	2368.5	2352.1	2319.0	2309.1	2295.9	2266.2	2253.1	2253.1	2269.5	2272.9
20°	2431.2	2404.8	2371.8	2355.3	2365.2	2348.8	2312.4	2262.9	2276.2	2289.3	2299.3
22.5°	2480.7	2460.9	2437.8	2427.9	2484.0	2457.6	2394.9	2338.8	2319.0	2342.1	2358.6
25°	2576.4	2576.4	2533.5	2546.6	2609.3	2612.6	2540.1	2441.1	2427.9	2437.8	2444.4
27.5°	2771.0	2780.9	2744.6	2757.8	2784.2	2807.3	2744.6	2662.1	2632.4	2629.2	2639.0
30°	2982.1	3001.9	2998.6	3054.6	3130.5	3143.7	3051.4	2916.1	2827.0	2810.6	2823.7
32.5°	3259.2	3269.1	3262.5	3328.5	3533.0	3628.7	3387.9	3196.5	3077.7	3107.4	3077.7
35°	3780.4	3770.5	3698.0	3711.1	3879.4	3948.7	3717.8	3595.7	3539.6	3599.0	3585.7
37.5°	4229.1	4192.7	4133.4	4219.1	4394.0	4456.7	4215.8	4001.4	3899.2	3998.2	4041.0
40°	4608.4	4516.0	4433.6	4519.3	4753.5	4839.3	4486.4	4311.5	4271.9	4344.5	4436.9
42.5°	4928.4	4869.0	4760.2	4766.7	4921.8	4961.4	4677.6	4575.4	4535.8	4651.3	4697.5
45°	5156.0	5099.9	4997.7	4991.1	5109.8	5083.4	4829.4	4760.2	4783.3	4859.1	4882.2
47.5°	5271.5	5301.1	5241.8	5258.2	5321.0	5258.2	5057.0	5057.0	5004.2	5050.4	5027.3
50°	5604.6	5512.2	5588.1	5588.1	5654.1	5660.7	5459.5	5386.9	5245.1	5165.9	5165.9
52.5°	5993.9	6000.4	6030.2	6139.0	6251.2	6346.8	6059.9	5749.8	5512.2	5410.0	5396.8
55°	6313.9	6379.8	6498.6	6703.1	7026.4	7158.3	6663.6	6109.4	5819.0	5660.7	5627.7
56°	6488.7	6426.0	6630.5	6910.9	7333.2	7504.7	6762.5	6181.9	5861.9	5683.8	5680.5
57.5°	6320.5	6389.7	6531.6	6973.6	7491.5	7715.8	6798.8	6148.9	5690.4	5509.0	5525.5
60°	4991.1	5057.0	5248.4	5743.1	6554.6	6729.5	5753.1	5070.2	4661.2	4400.5	4403.9
62.5°	2823.7	2873.2	3021.7	3480.2	3984.9	4153.2	3585.7	3130.5	2846.8	2701.7	2655.5
65°	1039.1	1019.3	1042.4	1276.6	1586.7	1728.6	1491.1	1260.2	1111.7	1058.9	1039.1
67.5°	389.2	359.6	336.5	359.6	451.9	478.3	438.7	366.1	343.1	353.0	359.6
70°	240.8	227.6	181.4	171.6	168.3	165.0	174.8	184.7	211.1	247.4	254.0
72.5°	168.3	158.3	128.6	122.1	115.5	112.1	128.6	141.9	165.0	191.4	194.7
75°	66.0	69.3	66.0	72.6	75.9	79.2	92.4	102.3	112.1	112.1	108.8
77.5°	13.2	13.2	19.8	26.4	33.0	42.9	62.6	72.6	75.9	72.6	62.6
80°	0.0	0.0	6.6	13.2	26.4	36.3	56.1	62.6	69.3	62.6	49.5
82.5°	0.0	0.0	6.6	16.5	26.4	33.0	52.8	66.0	75.9	69.3	52.8
85°	0.0	0.0	6.6	13.2	19.8	23.1	23.1	16.5	16.5	9.9	6.6
87.5°	0.0	0.0	0.0	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)