

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: P647313

Luminaire Tested: **GALN-SA3D-835-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647313
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-SA3D-835-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18871.1 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

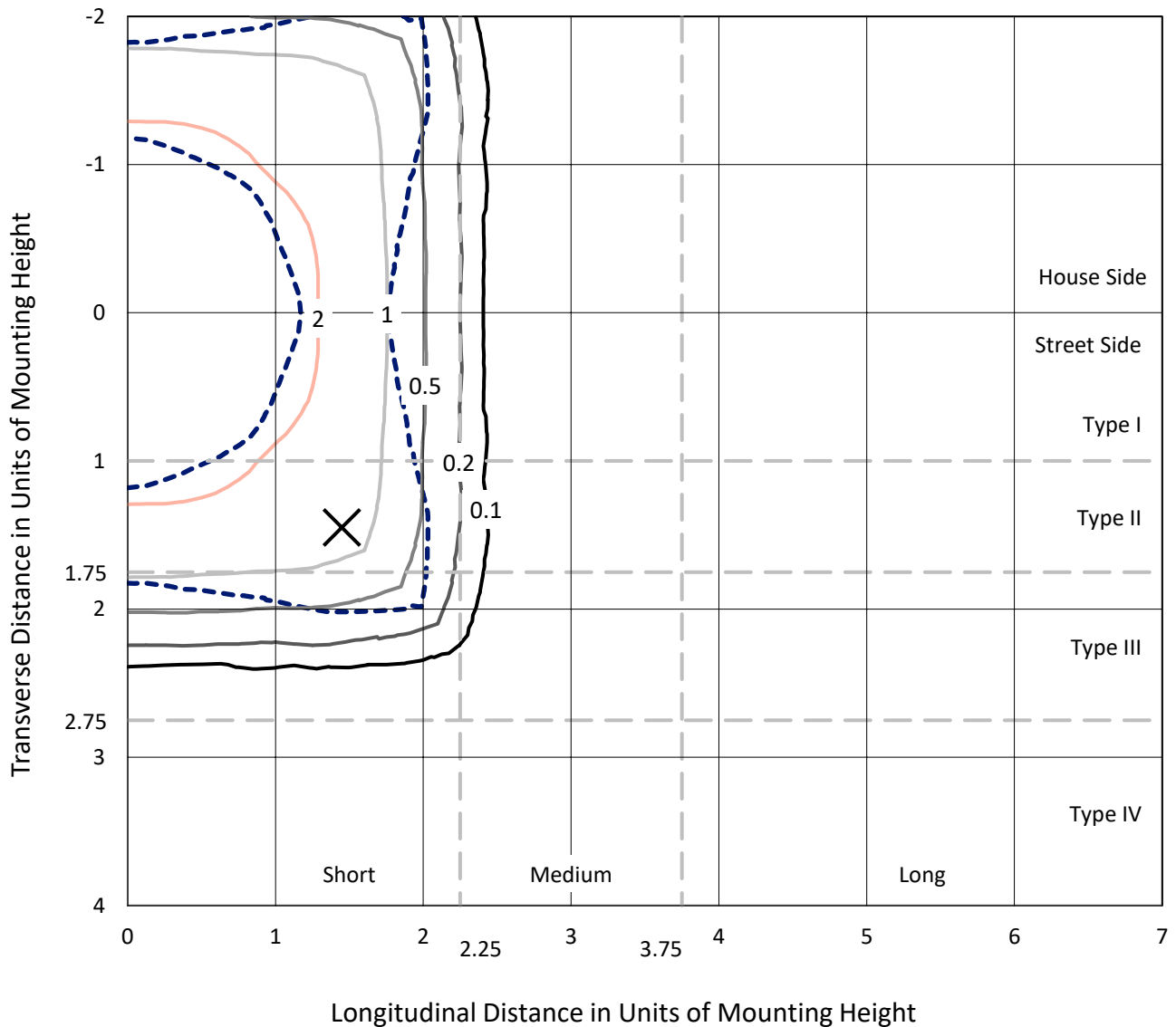
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

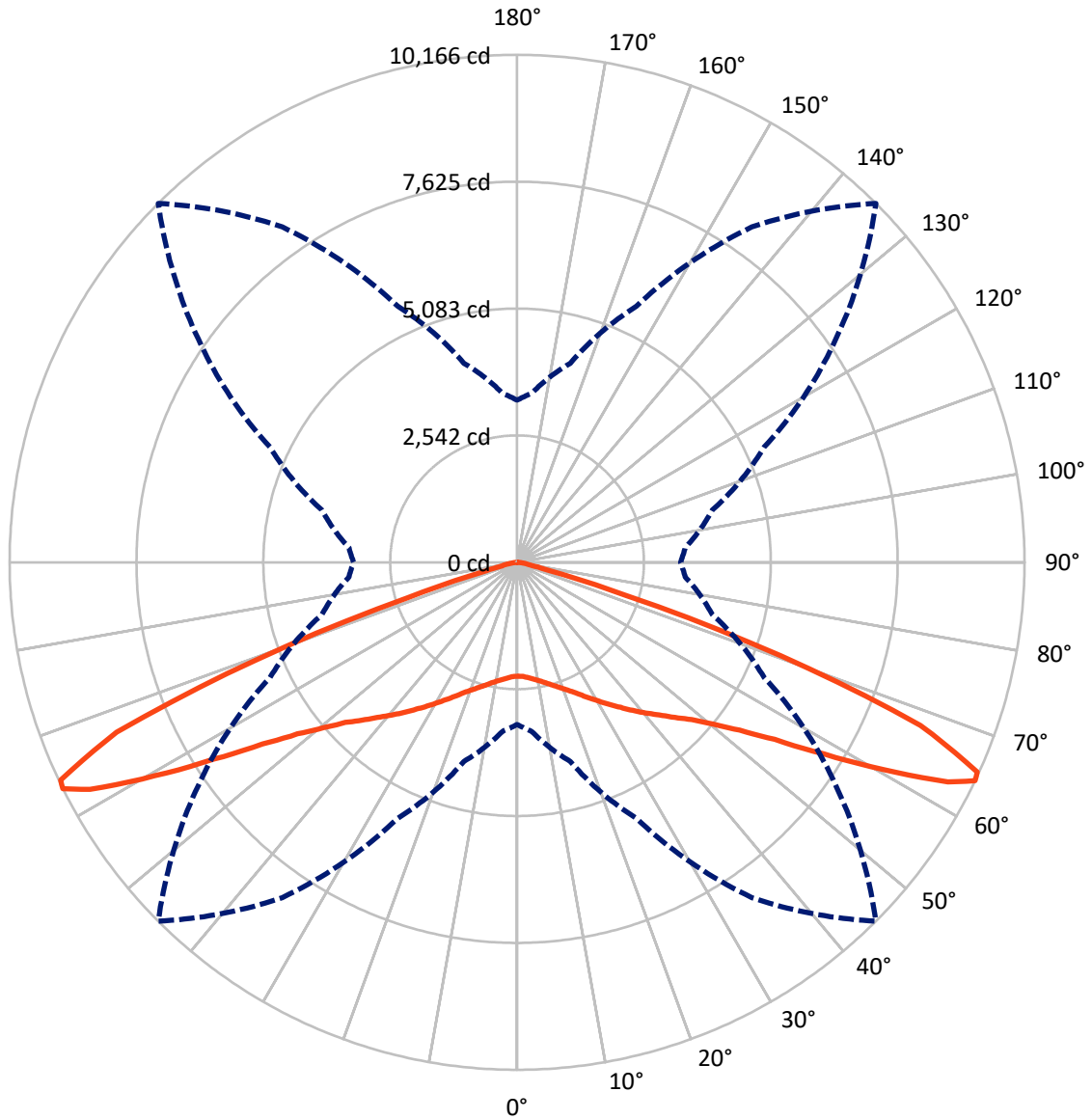
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 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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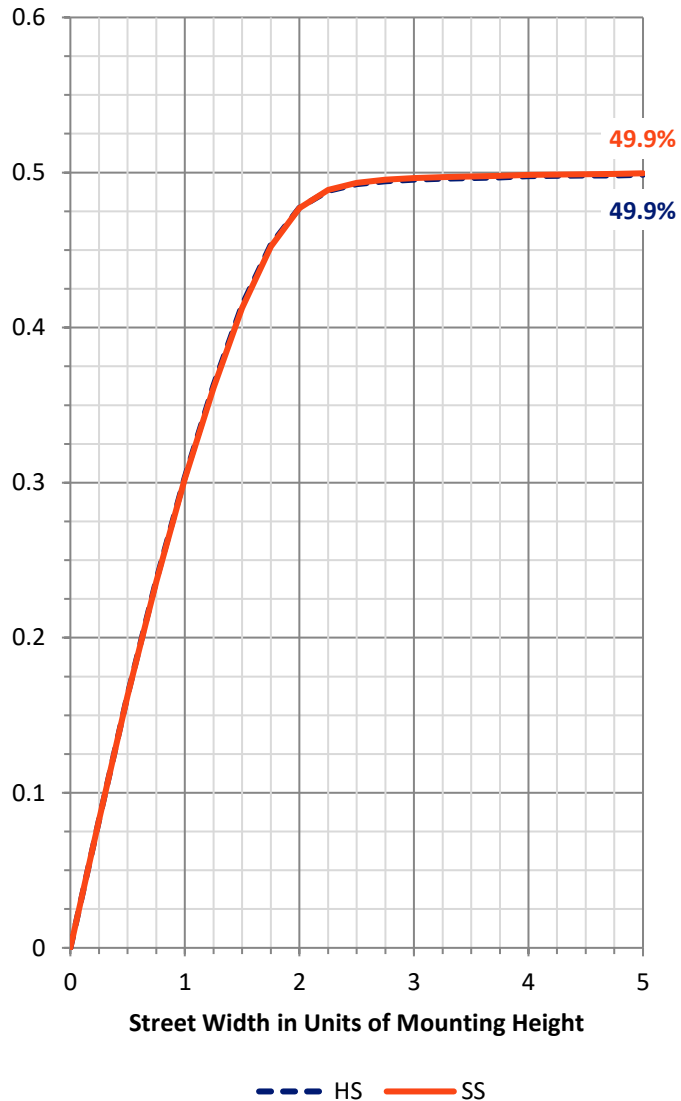
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9435.5	0.0	9435.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9435.5	0.0	9435.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	18871.1	0.0	18871.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.1	1.2
10°-20°	722.8	3.8
20°-30°	1365.9	7.2
30°-40°	2262.1	12.0
40°-50°	3531.5	18.7
50°-60°	5459.6	28.9
60°-70°	4707.7	24.9
70°-80°	533.5	2.8
80°-90°	63.9	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°	18871.1	100.0
0°-180°	18871.1	100.0

Coefficient of Utilization



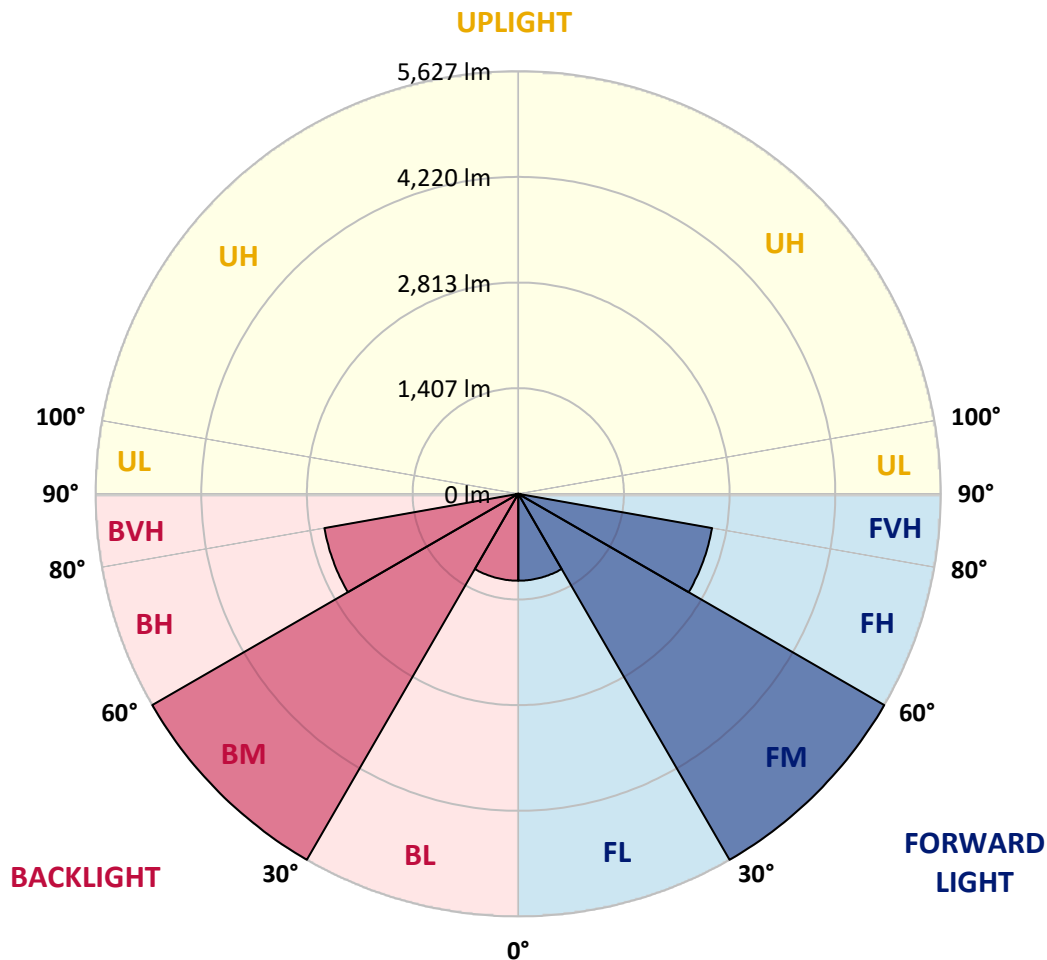
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1156.4	6.1			
FM (30°-60°)	5626.6	29.8			
FH (60°-80°)	2620.6	13.9			G2/5000
FVH (80°-90°)	32.0	0.2			G1/100
BL (0°-30°)	1156.4	6.1	B3/2500		
BM (30°-60°)	5626.6	29.8	B4/8500		
BH (60°-80°)	2620.6	13.9	B4/5000		G2/5000
BVH (80°-90°)	32.0	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°	2280.9	2280.9	2280.9	2280.9	2280.9	2280.9	2280.9	2280.9	2280.9	2280.9	2280.9
2.5°	2289.9	2294.9	2290.9	2289.9	2288.9	2288.9	2288.9	2289.9	2293.9	2296.9	2294.9
5°	2318.9	2322.8	2320.9	2319.9	2318.9	2319.9	2317.8	2316.9	2319.9	2319.9	2318.9
7.5°	2354.9	2359.9	2357.8	2359.9	2360.8	2361.8	2356.8	2352.8	2351.8	2354.9	2352.8
10°	2403.8	2407.8	2408.8	2409.8	2411.8	2410.9	2404.8	2397.9	2396.8	2395.8	2394.8
12.5°	2458.8	2461.8	2462.8	2466.8	2469.8	2470.8	2463.8	2457.8	2447.8	2449.8	2445.8
15°	2520.8	2526.7	2525.8	2531.8	2539.7	2541.8	2534.7	2524.8	2515.8	2510.8	2507.8
17.5°	2596.7	2600.7	2598.7	2604.7	2614.8	2619.8	2613.7	2600.7	2591.7	2580.8	2574.7
20°	2686.7	2693.7	2695.7	2695.7	2704.7	2709.6	2700.6	2696.7	2682.7	2674.7	2669.7
22.5°	2788.7	2791.6	2797.7	2803.6	2812.6	2810.7	2807.6	2801.7	2788.7	2781.6	2773.6
25°	2903.6	2906.6	2921.6	2934.6	2937.6	2935.5	2931.6	2928.6	2916.6	2900.6	2894.6
27.5°	3037.5	3043.5	3063.5	3075.5	3075.5	3076.5	3068.5	3078.5	3052.5	3033.5	3031.5
30°	3205.4	3209.4	3226.4	3238.4	3232.5	3227.4	3225.4	3235.4	3207.4	3173.4	3165.4
32.5°	3371.4	3385.4	3400.3	3426.3	3405.3	3396.3	3394.4	3401.4	3369.3	3331.4	3320.4
35°	3549.3	3559.3	3587.2	3609.2	3590.2	3569.2	3578.2	3600.2	3562.3	3511.3	3509.3
37.5°	3746.2	3755.2	3791.1	3814.1	3800.1	3764.2	3779.1	3805.1	3767.2	3704.2	3691.2
40°	3951.1	3970.0	4015.1	4039.0	4016.0	3968.1	3996.0	4024.1	3990.1	3917.1	3888.1
42.5°	4181.0	4211.0	4275.9	4287.9	4243.9	4178.9	4228.0	4272.9	4248.9	4164.9	4154.0
45°	4449.9	4467.8	4547.8	4573.7	4512.8	4431.9	4492.8	4574.8	4556.7	4459.8	4438.8
47.5°	4750.7	4767.7	4850.6	4889.6	4812.6	4703.7	4813.6	4920.6	4909.6	4805.7	4795.6
50°	5106.5	5110.5	5225.4	5269.4	5192.5	5098.5	5196.5	5329.4	5285.4	5152.5	5150.5
52.5°	5496.3	5501.3	5646.2	5731.2	5688.3	5582.2	5698.2	5779.2	5667.2	5493.3	5480.3
55°	5834.1	5859.1	6057.1	6282.9	6341.9	6264.9	6299.9	6262.0	5986.1	5742.2	5704.2
57.5°	5972.1	6021.0	6321.9	6743.7	7127.5	7241.5	6971.6	6609.8	6113.0	5768.2	5731.2
60°	5635.3	5688.3	6155.0	6955.6	7935.2	8429.9	7671.3	6668.7	5824.2	5339.4	5281.4
62.5°	4512.8	4527.8	5214.5	6456.9	8405.9	9687.3	7966.1	6166.0	4983.6	4324.9	4301.9
64°	3247.4	3401.4	4129.0	5661.2	8200.0	10166.1	7796.2	5461.3	4048.0	3381.4	3273.4
65°	2428.8	2470.8	3328.4	4834.6	7837.2	10130.1	7466.4	4787.7	3352.3	2587.7	2467.8
67.5°	917.5	922.5	1228.4	2409.8	5579.3	8715.7	5698.2	2604.7	1412.3	1021.5	984.5
70°	380.9	387.8	450.8	810.6	2397.9	5596.3	2747.6	939.5	516.8	418.8	412.8
72.5°	278.8	282.9	301.8	359.8	737.7	2297.9	903.6	398.8	302.9	270.8	267.9
75°	218.9	220.9	234.9	264.9	343.8	636.7	375.8	273.9	230.9	207.9	205.9
77.5°	166.9	171.9	181.9	201.9	230.9	301.8	248.9	204.9	177.9	158.9	155.9
80°	114.9	121.0	139.9	147.9	155.0	195.9	169.9	155.0	138.9	116.0	108.9
82.5°	70.9	74.9	94.0	100.9	98.0	109.9	108.9	111.0	99.0	72.0	66.9
85°	37.0	39.0	51.0	53.0	48.9	44.9	56.0	65.0	61.0	41.0	40.0
87.5°	8.0	9.0	11.0	10.0	11.0	11.0	14.0	21.0	22.0	14.0	13.0
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)