

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: P647254

Luminaire Tested: **GALN-SA2D-835-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647254
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-835-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10751.4 lumens
Efficiency: N/A
Efficacy: 86.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

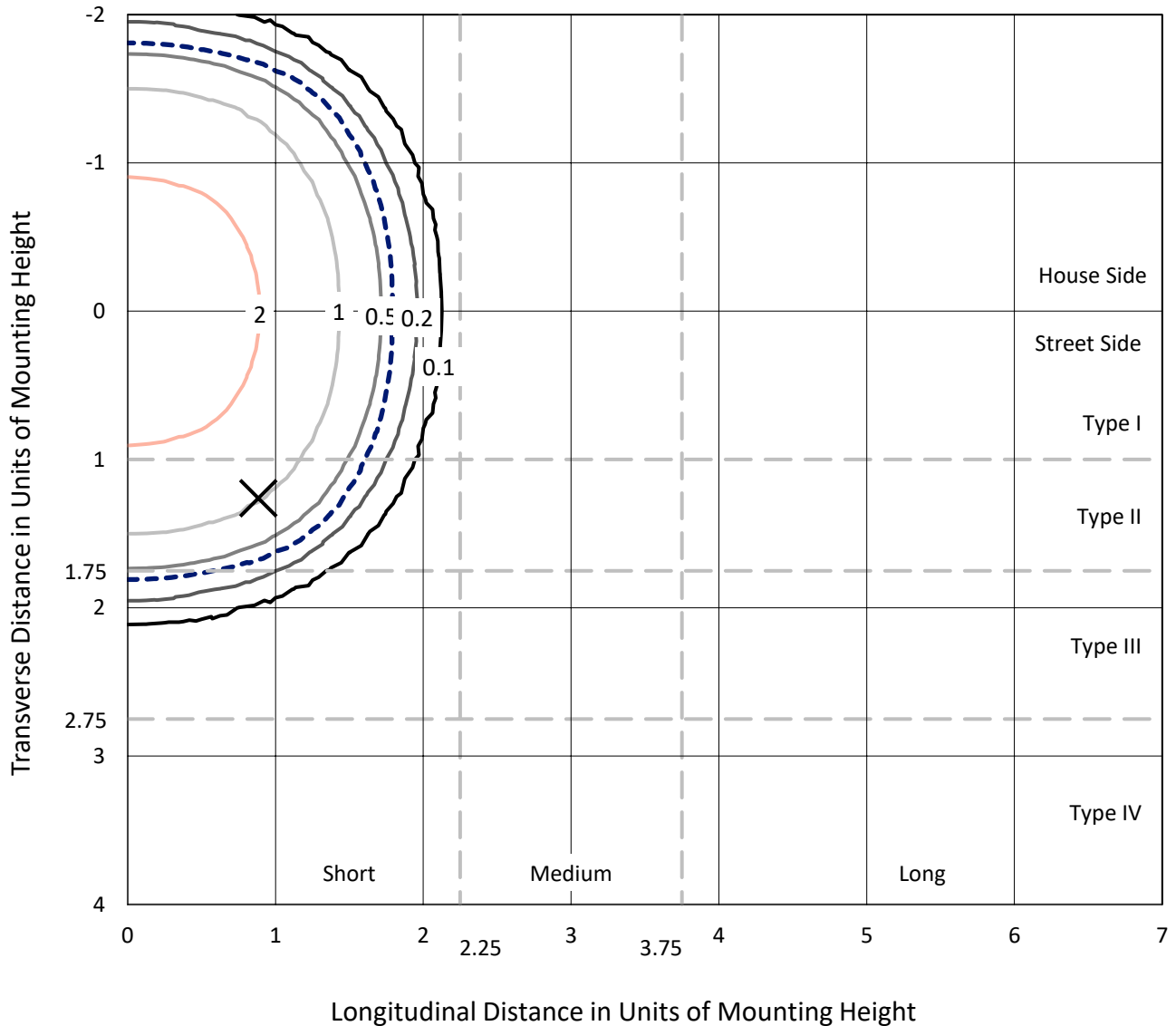
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

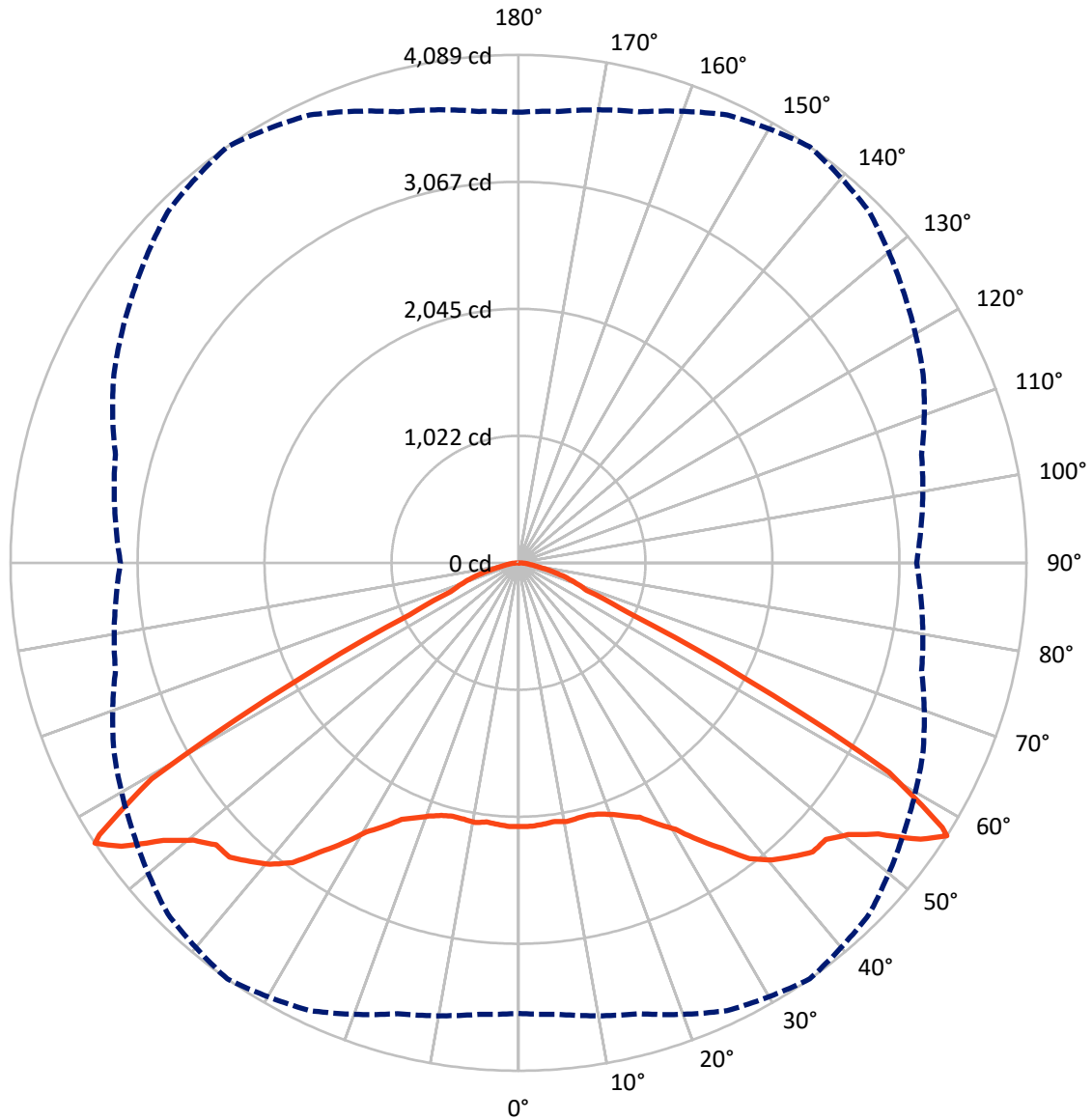
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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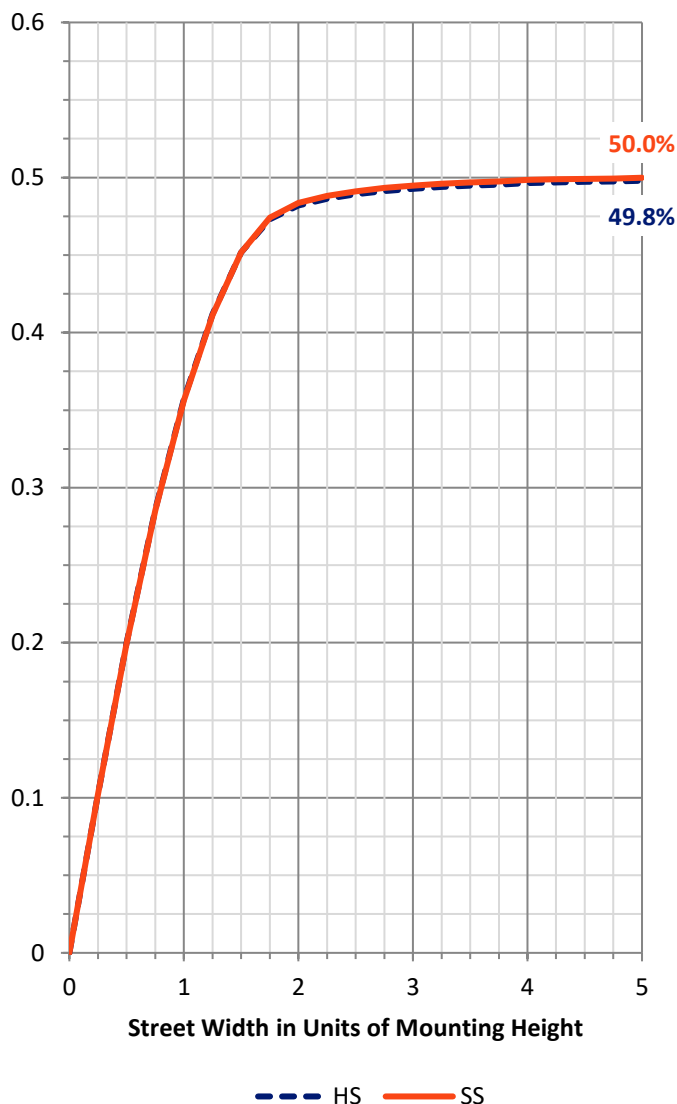
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5375.7	0.0	5375.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5375.7	0.0	5375.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	10751.4	0.0	10751.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.3	1.9
10°-20°	596.2	5.5
20°-30°	1041.2	9.7
30°-40°	1706.1	15.9
40°-50°	2501.5	23.3
50°-60°	3150.9	29.3
60°-70°	1185.0	11.0
70°-80°	315.1	2.9
80°-90°	54.0	0.5
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°	10751.4	100.0
0°-180°	10751.4	100.0

Coefficient of Utilization



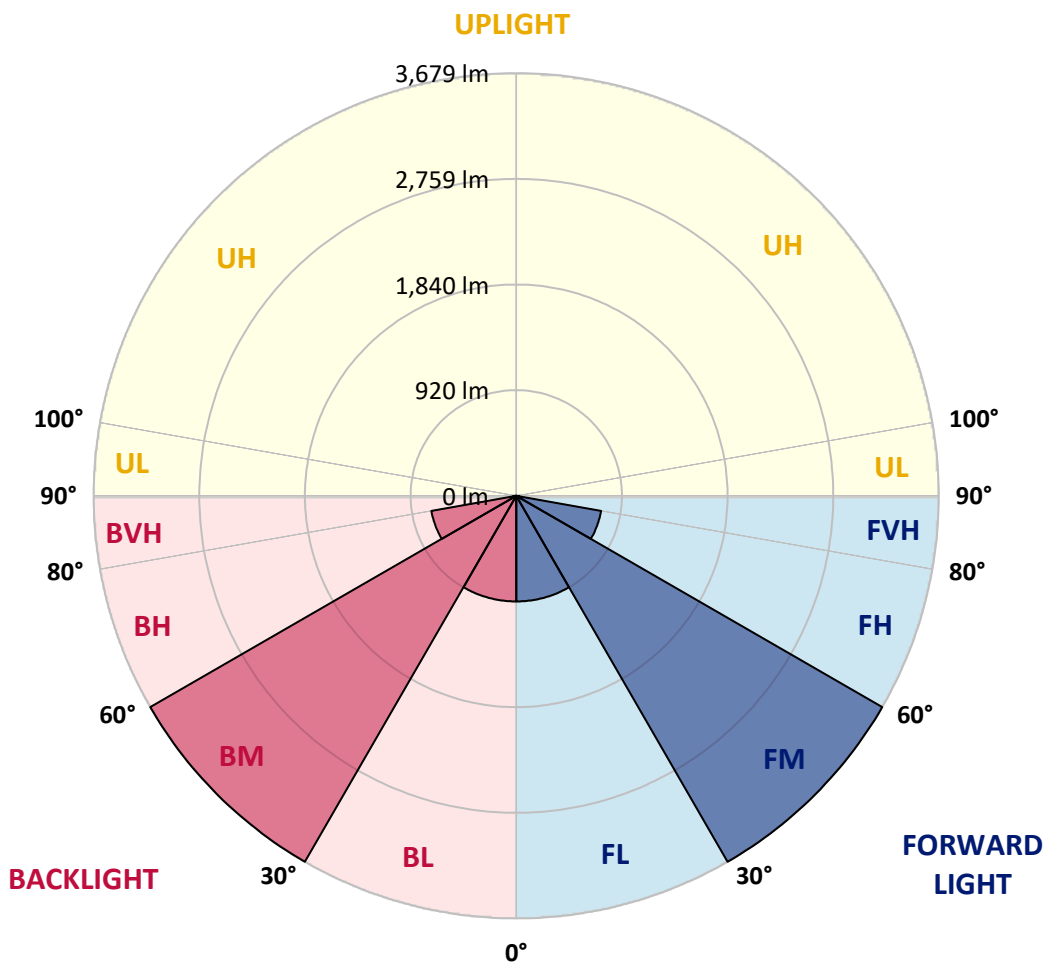
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	919.4	8.6			
FM (30°-60°)	3679.3	34.2			
FH (60°-80°)	750.1	7.0			G1/1800
FVH (80°-90°)	27.0	0.3			G1/100
BL (0°-30°)	919.4	8.6	B2/1000		
BM (30°-60°)	3679.3	34.2	B3/5000		
BH (60°-80°)	750.1	7.0	B2/1000		G1/1800
BVH (80°-90°)	27.0	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2123.3	2123.3	2123.3	2123.3	2123.3	2123.3	2123.3	2123.3	2123.3	2123.3	2123.3
2.5°	2112.7	2133.9	2124.7	2119.3	2123.3	2116.7	2106.1	2118.0	2115.4	2104.8	2100.8
5°	2107.4	2123.3	2112.7	2123.3	2112.7	2131.2	2126.0	2106.1	2129.9	2107.4	2115.4
7.5°	2103.5	2108.8	2111.4	2106.1	2102.1	2124.7	2112.7	2103.5	2090.2	2086.2	2092.9
10°	2094.2	2107.4	2087.6	2114.0	2119.3	2103.5	2103.5	2086.2	2075.7	2069.0	2091.5
12.5°	2118.0	2095.5	2092.9	2106.1	2110.1	2116.7	2098.1	2088.9	2069.0	2071.7	2067.7
15°	2090.2	2099.5	2100.8	2103.5	2107.4	2123.3	2106.1	2086.2	2078.3	2050.4	2053.1
17.5°	2100.8	2091.5	2100.8	2131.2	2126.0	2137.9	2119.3	2088.9	2070.3	2054.4	2075.7
20°	2119.3	2115.4	2119.3	2156.5	2163.0	2173.7	2157.8	2129.9	2094.2	2075.7	2086.2
22.5°	2139.2	2136.6	2139.2	2174.9	2213.4	2226.6	2210.7	2145.8	2127.3	2092.9	2080.9
25°	2174.9	2177.6	2205.5	2245.2	2270.3	2295.5	2266.4	2220.0	2160.4	2139.2	2114.0
27.5°	2254.4	2261.1	2277.0	2335.2	2379.0	2401.5	2360.4	2296.9	2259.7	2216.0	2209.4
30°	2352.4	2352.4	2380.3	2430.6	2490.3	2524.7	2474.4	2398.8	2353.8	2330.0	2315.4
32.5°	2482.3	2467.7	2478.3	2567.1	2659.8	2688.9	2621.3	2528.6	2457.1	2425.3	2414.7
35°	2593.5	2602.8	2626.7	2722.0	2825.4	2892.9	2786.9	2666.4	2593.5	2564.4	2559.1
37.5°	2737.9	2753.8	2765.7	2896.9	3021.4	3046.6	2944.5	2847.8	2759.1	2735.3	2722.0
40°	2941.9	2931.3	2935.3	3032.0	3144.6	3160.5	3059.8	2990.9	2918.1	2903.5	2903.5
42.5°	3110.2	3098.3	3111.5	3147.2	3233.3	3221.4	3165.7	3115.4	3084.9	3069.0	3084.9
45°	3212.1	3209.5	3233.3	3259.8	3320.8	3281.0	3237.3	3245.2	3216.1	3189.6	3188.3
47.5°	3323.4	3306.1	3335.3	3375.0	3328.7	3310.1	3307.5	3324.7	3315.5	3269.1	3254.5
50°	3377.7	3371.0	3417.4	3463.8	3438.6	3396.3	3405.5	3433.3	3314.1	3251.9	3216.1
52.5°	3523.4	3524.8	3613.5	3638.7	3628.0	3565.8	3585.7	3510.2	3369.7	3282.3	3286.3
55°	3752.5	3743.3	3842.7	3916.8	3928.7	3849.2	3753.9	3647.9	3471.7	3383.0	3356.5
57°	3626.7	3647.9	3757.9	3977.7	4089.0	3994.9	3787.0	3593.6	3359.1	3251.9	3204.2
57.5°	3458.5	3493.0	3683.7	3904.9	4021.5	4013.5	3746.0	3493.0	3283.7	3116.7	3120.7
60°	2533.9	2540.6	2712.8	3063.8	3428.1	3436.0	3110.2	2775.0	2541.9	2360.4	2385.6
62.5°	1336.5	1367.0	1435.9	1718.0	2033.2	2110.1	1912.7	1740.5	1539.1	1401.4	1414.6
65°	707.4	703.4	736.5	816.0	970.9	1010.7	984.2	847.8	777.5	755.0	756.4
67.5°	574.9	581.5	577.5	581.5	592.1	609.3	605.3	610.7	614.6	621.2	619.9
70°	487.4	487.4	490.1	491.4	491.4	499.4	508.6	525.9	527.2	533.8	536.4
72.5°	384.1	381.5	385.5	394.7	396.0	402.7	415.9	426.5	430.5	430.5	422.5
75°	261.0	263.6	268.9	276.9	284.8	296.7	307.3	313.9	316.6	312.6	308.7
77.5°	147.0	149.7	153.6	165.6	174.8	185.4	197.4	204.0	210.6	212.0	204.0
80°	87.5	87.5	94.0	103.4	113.9	124.5	135.1	143.1	145.7	145.7	141.7
82.5°	53.0	54.3	59.6	68.9	78.1	84.8	94.0	100.7	105.9	104.6	102.0
85°	27.8	27.8	33.1	41.0	47.7	54.3	54.3	50.3	47.7	41.0	38.4
87.5°	9.2	8.0	10.6	10.6	9.2	10.6	10.6	11.9	11.9	11.9	11.9
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)