

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: P647257

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647257
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-6)
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-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10971.4 lumens
Efficiency: N/A
Efficacy: 87.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

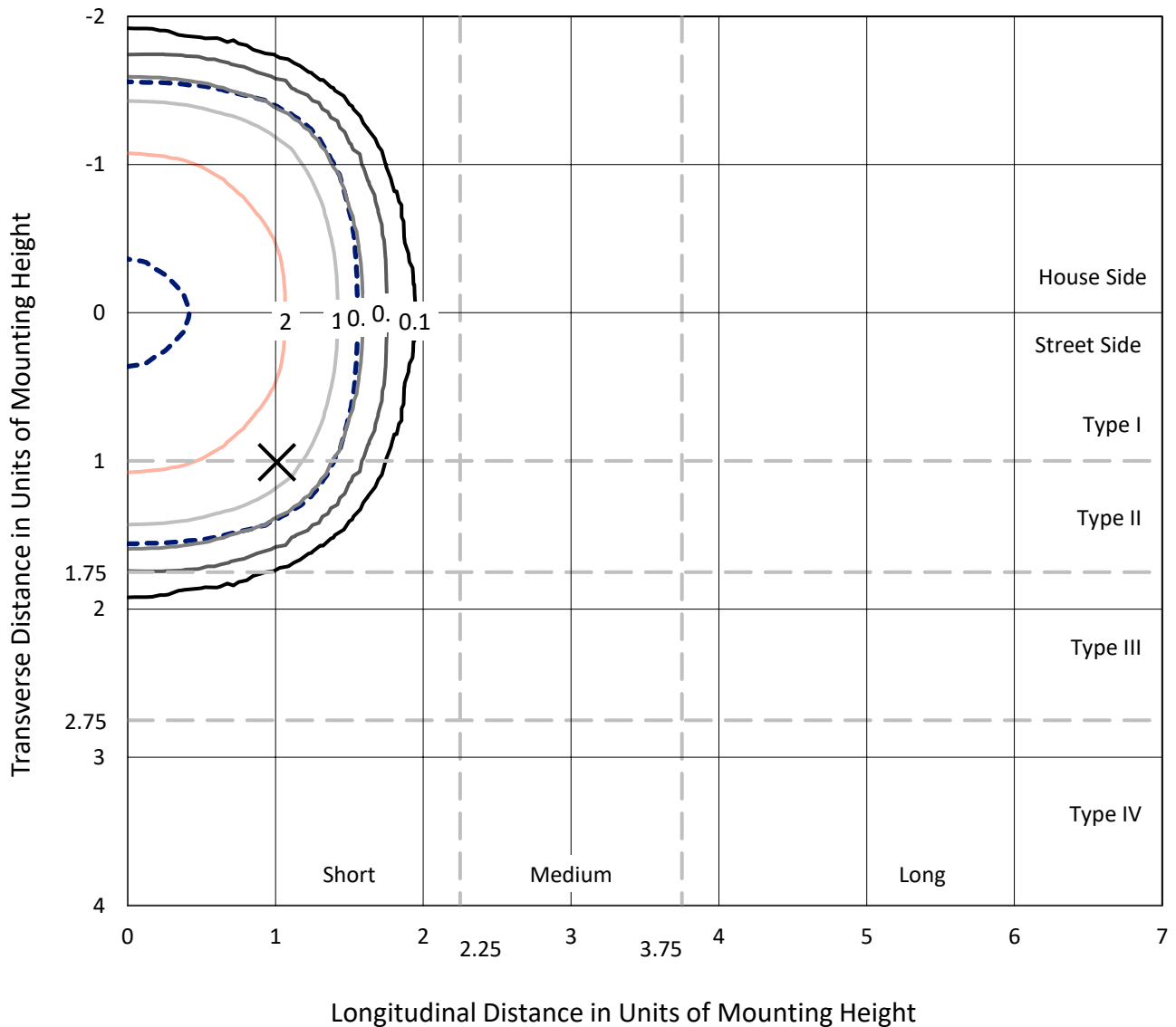
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

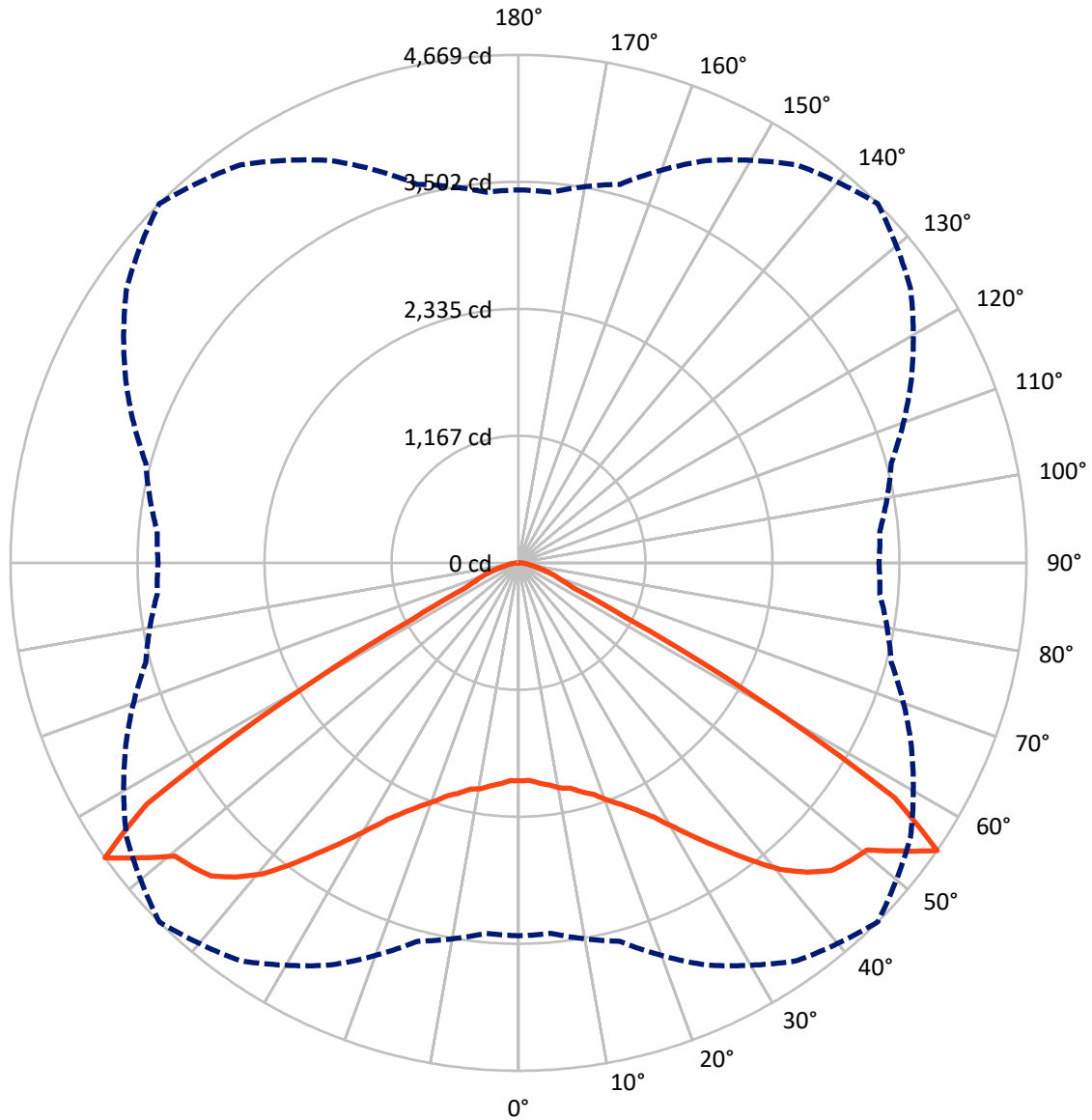
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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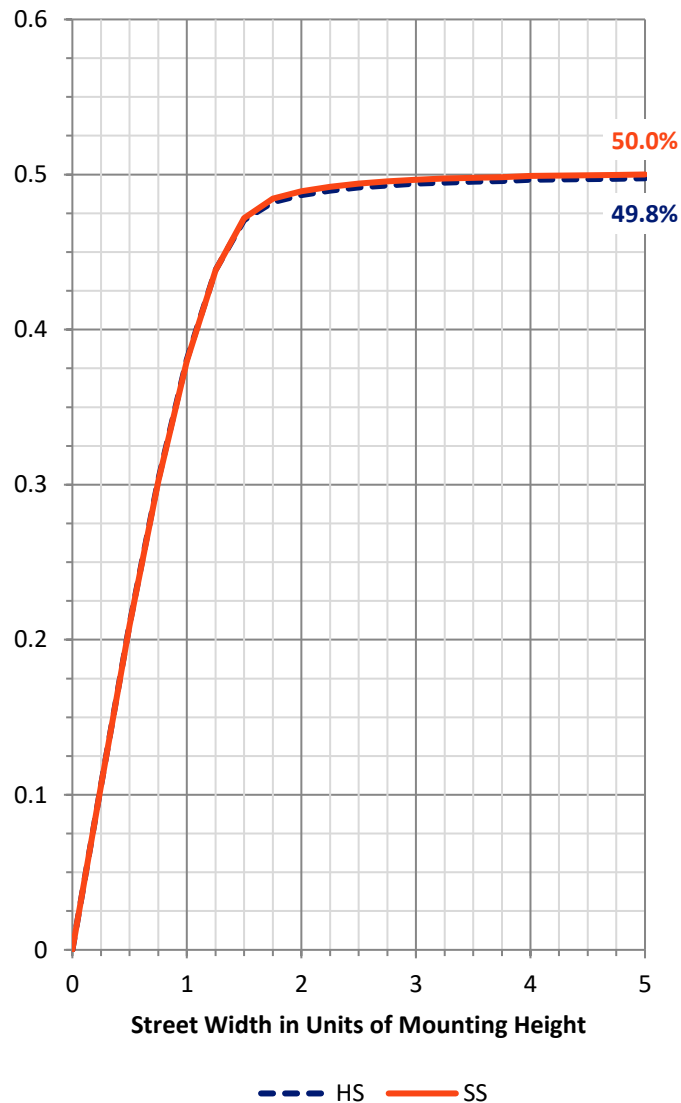
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5485.7	0.0	5485.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5485.7	0.0	5485.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	10971.4	0.0	10971.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.7	1.8
10°-20°	620.1	5.7
20°-30°	1156.2	10.5
30°-40°	1935.9	17.6
40°-50°	3012.4	27.5
50°-60°	3127.8	28.5
60°-70°	663.3	6.0
70°-80°	218.5	2.0
80°-90°	41.6	0.4
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°	10971.4	100.0
0°-180°	10971.4	100.0

Coefficient of Utilization

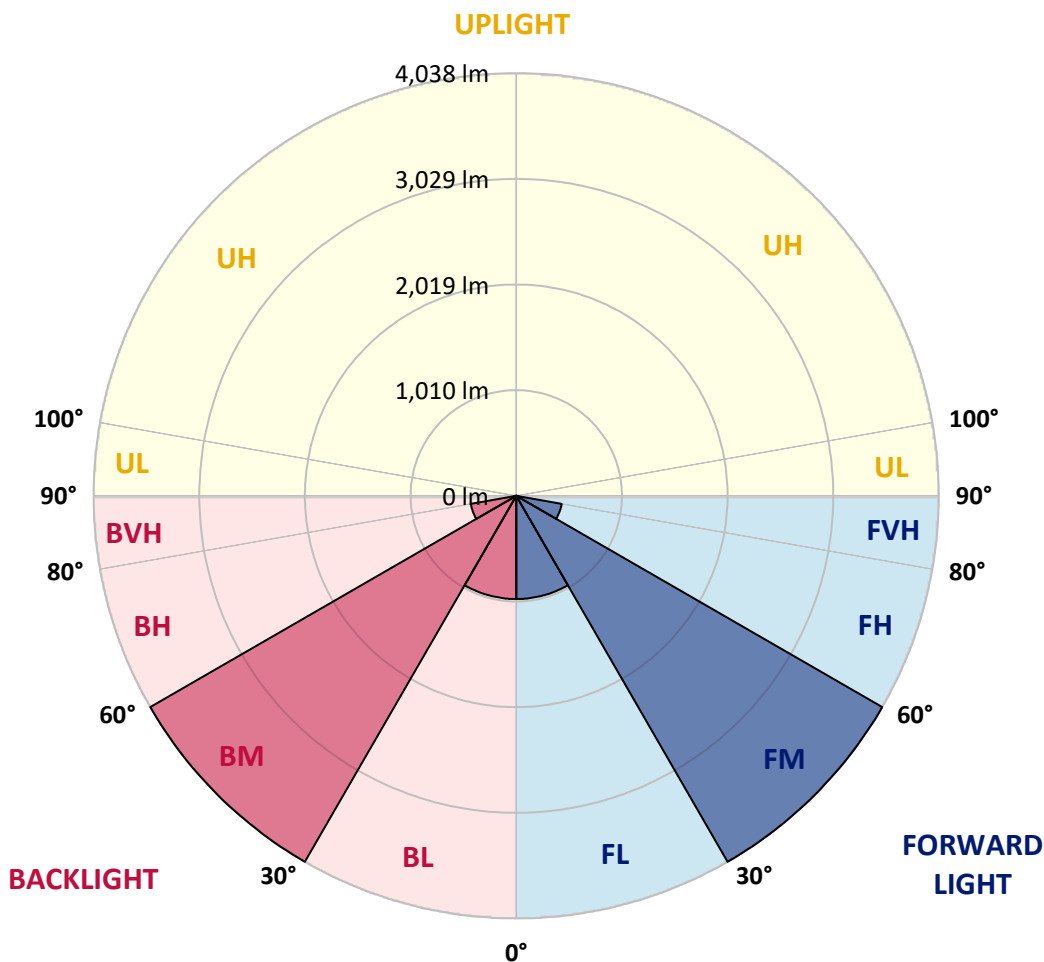


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	986.0	9.0			
FM (30°-60°)	4038.0	36.8			
FH (60°-80°)	440.9	4.0			G0/660
FVH (80°-90°)	20.8	0.2			G1/100
BL (0°-30°)	986.0	9.0	B2/1000		
BM (30°-60°)	4038.0	36.8	B3/5000		
BH (60°-80°)	440.9	4.0	B1/500		G0/660
BVH (80°-90°)	20.8	0.2			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°	2003.2	2003.2	2003.2	2003.2	2003.2	2003.2	2003.2	2003.2	2003.2	2003.2	2003.2
2.5°	2027.1	2017.8	2001.9	2013.8	2023.1	2003.2	2011.1	2015.1	2012.5	2001.9	2005.9
5°	2056.2	2050.9	2037.7	2047.0	2035.0	2035.0	2027.1	2016.5	2032.4	2029.7	2036.3
7.5°	2056.2	2049.6	2076.1	2058.9	2064.2	2064.2	2050.9	2040.3	2048.3	2036.3	2029.7
10°	2097.3	2106.6	2094.7	2098.7	2096.0	2105.3	2085.4	2078.8	2072.1	2068.1	2060.2
12.5°	2146.4	2139.8	2143.8	2141.1	2150.4	2126.5	2114.6	2100.0	2111.9	2094.7	2106.6
15°	2186.1	2182.2	2186.1	2196.8	2187.5	2186.1	2164.9	2150.4	2131.8	2135.8	2117.2
17.5°	2240.6	2236.6	2237.9	2247.1	2245.8	2239.2	2223.3	2195.5	2188.8	2178.2	2166.2
20°	2321.4	2314.8	2312.1	2316.1	2322.7	2328.0	2296.2	2285.6	2263.0	2245.8	2225.9
22.5°	2390.3	2387.7	2398.3	2381.0	2395.7	2411.6	2381.0	2375.8	2320.1	2310.8	2289.6
25°	2485.8	2481.8	2475.2	2500.4	2517.6	2516.2	2487.1	2457.9	2415.6	2404.9	2404.9
27.5°	2586.6	2564.0	2598.5	2605.1	2635.6	2644.9	2619.7	2577.2	2537.5	2514.9	2520.2
30°	2712.5	2691.2	2699.2	2747.0	2786.7	2821.2	2757.6	2695.2	2639.6	2599.8	2593.1
32.5°	2838.5	2817.2	2841.1	2887.5	2967.0	3018.8	2956.5	2847.7	2782.8	2724.4	2736.4
35°	2940.6	2956.5	2994.9	3065.1	3147.3	3230.9	3131.5	3047.9	2955.1	2890.1	2899.4
37.5°	3104.9	3154.0	3184.5	3265.3	3382.0	3468.1	3364.8	3256.0	3156.6	3071.8	3042.6
40°	3319.7	3352.8	3387.3	3482.8	3620.7	3706.8	3608.7	3466.8	3368.7	3281.2	3277.2
42.5°	3555.7	3587.5	3623.3	3739.9	3822.1	3887.1	3796.9	3721.4	3612.7	3543.7	3539.8
45°	3830.1	3807.6	3847.3	3924.2	3993.1	4035.6	3977.2	3940.1	3861.9	3798.3	3791.7
47.5°	4013.0	3993.1	4064.8	4133.7	4144.3	4097.9	4109.8	4144.3	4062.1	3957.4	3990.5
50°	4119.1	4119.1	4166.8	4230.5	4210.6	4150.9	4245.0	4247.7	4165.5	4072.7	4072.7
52.5°	3934.8	3975.9	4111.1	4319.3	4385.6	4402.8	4381.6	4291.5	4076.7	3887.1	3877.8
55°	3428.4	3419.1	3602.0	4079.4	4465.1	4669.3	4398.8	3983.9	3547.7	3334.2	3313.0
57.5°	2229.9	2240.6	2513.7	3000.1	3696.2	4076.7	3620.7	3037.3	2513.7	2219.3	2247.1
60°	1003.6	1039.4	1205.1	1568.3	2166.2	2476.5	2171.6	1647.9	1264.8	1097.7	1112.3
62.5°	576.7	583.3	590.0	700.0	922.7	1091.1	958.5	739.8	652.2	623.1	623.1
65°	486.6	482.6	483.9	493.2	517.0	551.5	536.9	517.0	519.7	517.0	513.1
67.5°	413.7	418.9	415.0	421.6	422.9	428.2	437.5	445.4	446.8	449.4	446.8
70°	339.4	340.7	343.3	348.7	350.0	354.0	367.2	373.9	377.9	377.9	383.1
72.5°	259.9	258.5	261.2	266.5	273.1	274.4	286.3	295.7	300.9	294.3	295.7
75°	171.0	172.3	176.3	180.3	189.6	198.9	202.9	212.1	213.4	216.1	209.5
77.5°	102.1	104.8	108.7	116.7	124.7	132.6	141.9	148.5	151.1	148.5	140.5
80°	66.3	66.3	71.6	78.2	87.5	94.1	99.4	104.8	108.7	104.8	102.1
82.5°	41.1	41.1	47.8	55.7	62.3	66.3	74.2	80.9	84.9	82.2	78.2
85°	21.2	22.6	27.9	34.5	39.8	42.4	41.1	37.1	33.1	31.8	29.1
87.5°	6.7	6.7	8.0	8.0	6.7	6.7	8.0	6.7	8.0	8.0	8.0
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)