

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: P647310

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647310
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)
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-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18965.1 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

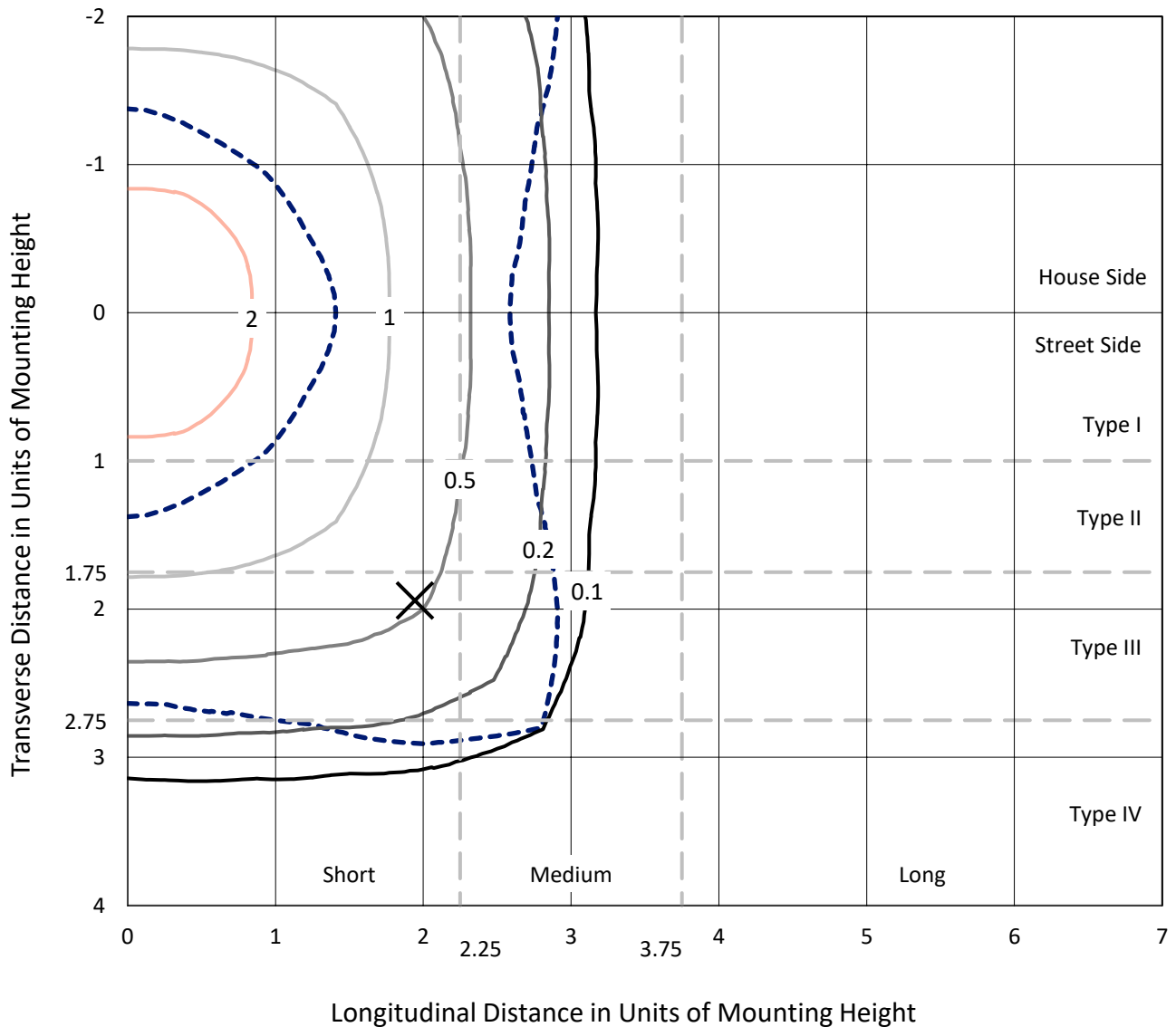
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

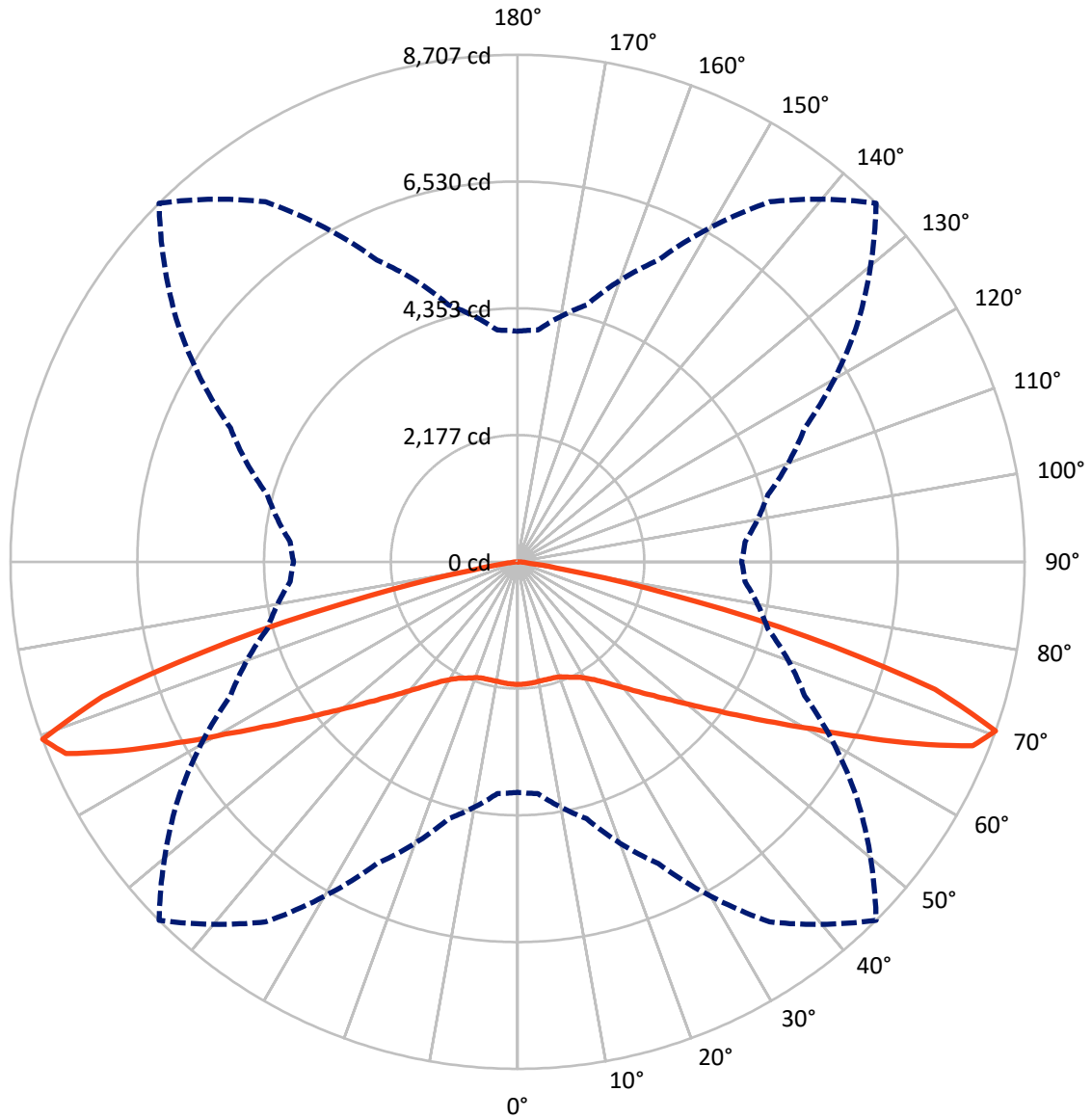
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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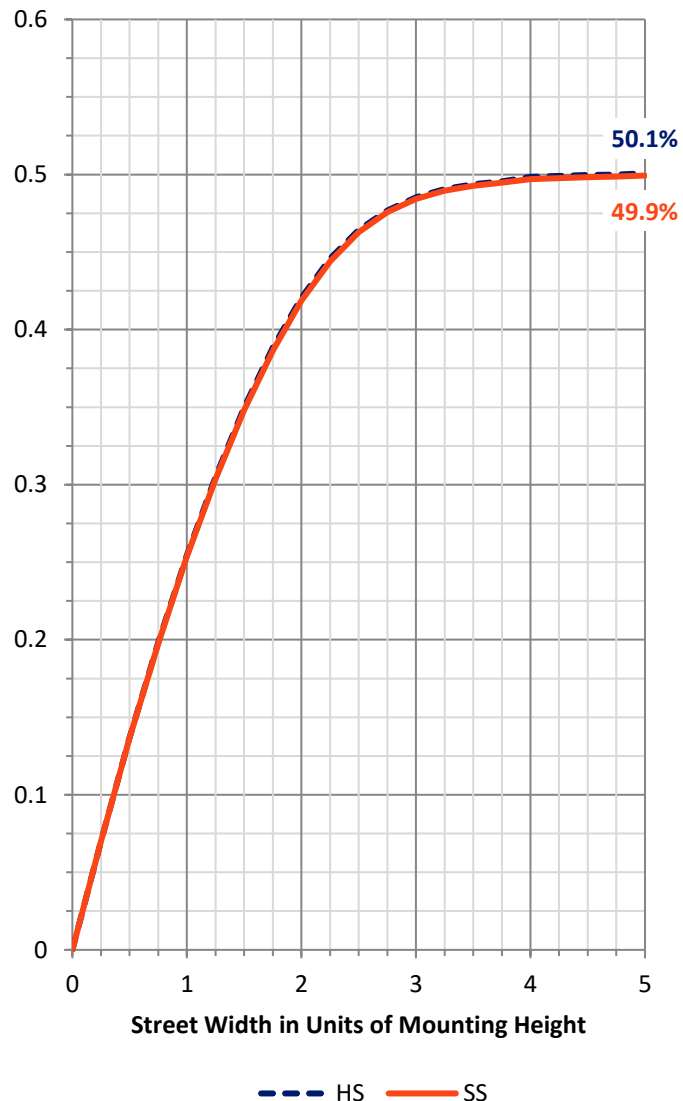
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9482.5	0.0	9482.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9482.5	0.0	9482.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	18965.1	0.0	18965.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.7	1.1
10°-20°	586.0	3.1
20°-30°	1002.3	5.3
30°-40°	1590.8	8.4
40°-50°	2566.4	13.5
50°-60°	4175.7	22.0
60°-70°	6053.2	31.9
70°-80°	2685.0	14.2
80°-90°	105.9	0.6
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°	18965.1	100.0
0°-180°	18965.1	100.0

Coefficient of Utilization

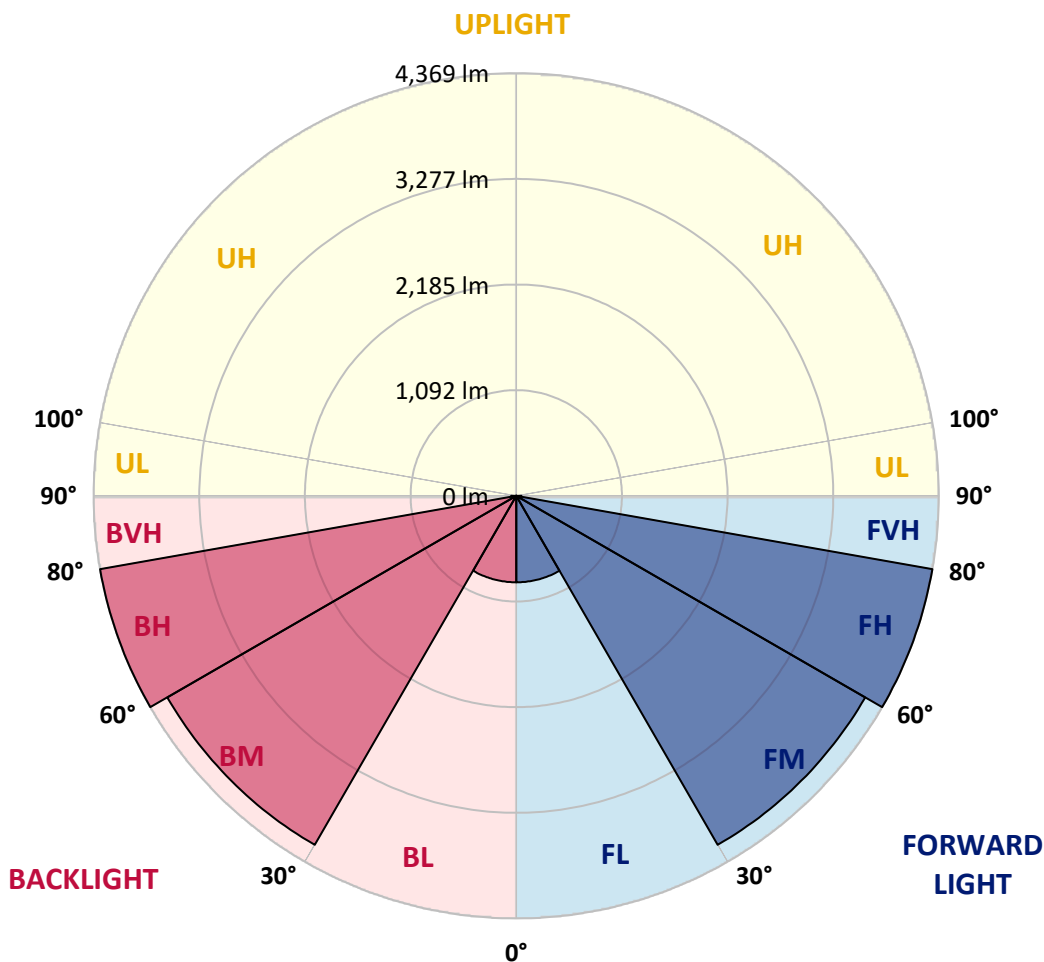


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	894.0	4.7			
FM (30°-60°)	4166.5	22.0			
FH (60°-80°)	4369.1	23.0			G2/5000
FVH (80°-90°)	53.0	0.3			G1/100
BL (0°-30°)	894.0	4.7	B2/1000		
BM (30°-60°)	4166.5	22.0	B3/5000		
BH (60°-80°)	4369.1	23.0	B4/5000		G2/5000
BVH (80°-90°)	53.0	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	2106.0	2106.0	2106.0	2106.0	2106.0	2106.0	2106.0	2106.0	2106.0	2106.0	2106.0
2.5°	2106.0	2108.0	2105.0	2103.0	2102.0	2102.0	2100.9	2102.0	2108.0	2109.0	2106.0
5°	2100.0	2102.0	2100.9	2099.0	2098.0	2098.0	2097.0	2096.0	2100.9	2103.0	2102.0
7.5°	2092.0	2093.0	2092.0	2091.0	2092.0	2091.0	2088.0	2086.0	2090.0	2090.0	2089.0
10°	2078.0	2080.0	2079.0	2080.0	2082.0	2082.0	2078.0	2074.0	2075.0	2073.0	2073.0
12.5°	2061.0	2064.0	2065.0	2069.0	2074.0	2080.0	2071.0	2062.0	2060.0	2059.0	2058.0
15°	2050.0	2053.0	2057.0	2061.0	2070.0	2083.0	2070.0	2056.0	2052.0	2048.0	2046.0
17.5°	2047.0	2051.0	2057.0	2063.0	2075.0	2088.0	2077.0	2063.0	2053.0	2047.0	2045.0
20°	2055.0	2058.0	2067.0	2078.0	2095.0	2108.0	2097.0	2082.0	2067.0	2058.0	2055.0
22.5°	2071.0	2076.0	2087.0	2107.0	2130.9	2150.0	2134.9	2110.0	2086.0	2074.0	2070.0
25°	2106.0	2110.0	2122.9	2150.0	2177.9	2195.9	2180.0	2151.0	2117.9	2102.0	2097.0
27.5°	2159.0	2164.9	2178.9	2211.0	2233.9	2243.9	2232.9	2212.9	2189.0	2172.0	2168.0
30°	2233.9	2240.9	2261.9	2295.9	2310.9	2316.9	2311.9	2298.9	2281.9	2263.9	2259.9
32.5°	2334.9	2338.9	2362.9	2394.8	2408.8	2410.9	2404.8	2398.8	2370.8	2340.9	2338.9
35°	2447.8	2454.8	2483.8	2521.8	2534.8	2535.7	2523.8	2514.8	2481.8	2457.8	2457.8
37.5°	2597.8	2600.7	2628.7	2671.7	2685.7	2681.7	2675.7	2667.7	2632.8	2601.8	2602.8
40°	2773.6	2779.6	2803.6	2853.6	2853.6	2848.6	2852.6	2846.6	2811.7	2781.7	2782.6
42.5°	2982.5	2985.6	3014.6	3067.5	3063.5	3053.5	3057.5	3049.6	3027.5	2993.6	2981.6
45°	3205.4	3217.4	3267.4	3318.4	3310.4	3278.4	3294.4	3292.4	3272.4	3221.4	3224.5
47.5°	3474.3	3494.3	3542.3	3603.3	3594.3	3544.2	3562.3	3574.2	3546.3	3490.3	3480.3
50°	3777.2	3790.2	3861.1	3918.1	3910.1	3857.1	3898.1	3900.1	3830.1	3751.2	3751.2
52.5°	4100.0	4113.0	4208.9	4297.9	4302.9	4225.9	4259.0	4256.9	4143.0	4039.0	4019.1
55°	4461.8	4467.8	4591.7	4722.7	4750.7	4675.8	4679.8	4639.7	4491.8	4370.9	4359.9
57.5°	4835.7	4857.7	4994.6	5164.5	5247.4	5201.5	5180.5	5073.5	4930.6	4791.6	4784.7
60°	5249.5	5250.5	5428.4	5629.3	5797.2	5828.2	5742.2	5599.3	5414.4	5230.4	5222.5
62.5°	5536.3	5579.3	5804.2	6144.0	6444.9	6618.8	6391.9	6092.1	5728.2	5431.4	5401.4
65°	5595.3	5624.3	5967.1	6542.8	7157.6	7532.4	7007.6	6369.9	5749.2	5353.4	5333.4
67.5°	5118.5	5149.5	5611.3	6494.8	7657.3	8425.9	7407.4	6236.0	5393.4	4903.6	4864.6
70°	3959.1	3994.1	4564.8	5717.2	7546.3	8706.8	7122.6	5439.3	4447.8	3919.1	3848.1
72.5°	2105.0	2233.9	2721.7	3924.1	6125.0	7496.4	5840.2	3969.1	2868.6	2344.9	2250.9
75°	768.6	784.6	1056.5	1740.1	3563.3	5140.5	3700.2	1893.1	1088.4	840.6	797.6
77.5°	317.8	316.9	347.8	525.7	1294.4	2632.8	1444.3	555.7	346.9	320.9	316.9
80°	187.9	187.9	206.9	218.9	340.8	794.6	380.9	247.9	207.9	189.9	192.9
82.5°	83.9	88.9	130.9	138.0	164.9	217.9	183.9	157.9	135.9	94.0	85.0
85°	46.0	40.0	69.0	72.0	78.9	81.0	87.0	86.0	78.9	46.0	47.0
87.5°	9.0	11.0	20.0	15.0	17.0	15.0	20.0	28.0	29.0	16.0	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)