

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: P452308

Luminaire Tested: **GALN-SA3B-730-U-5NQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452308  
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-SA3B-730-U-5NQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16145 lumens  
Efficiency: N/A  
Efficacy: 133.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G2

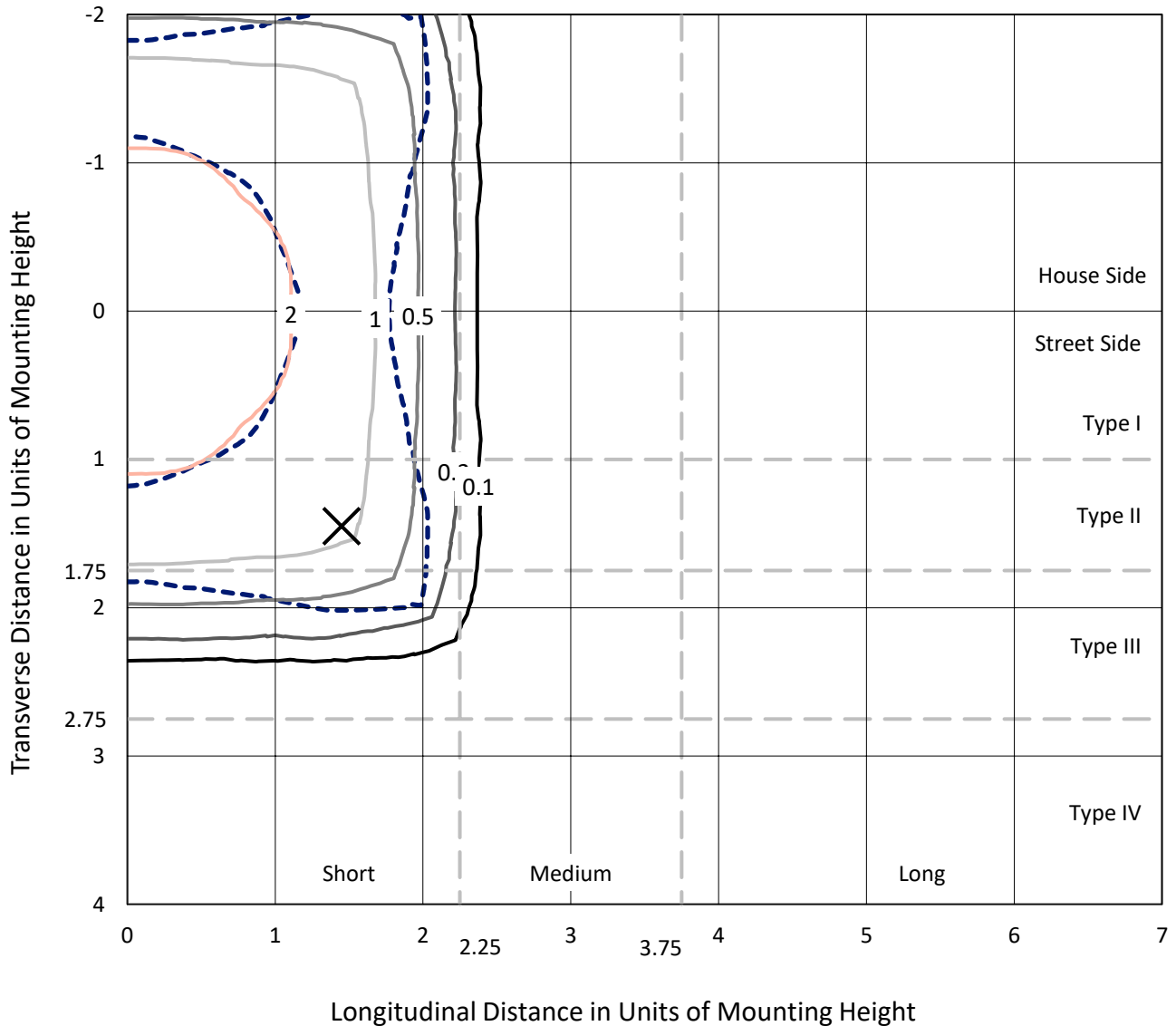
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

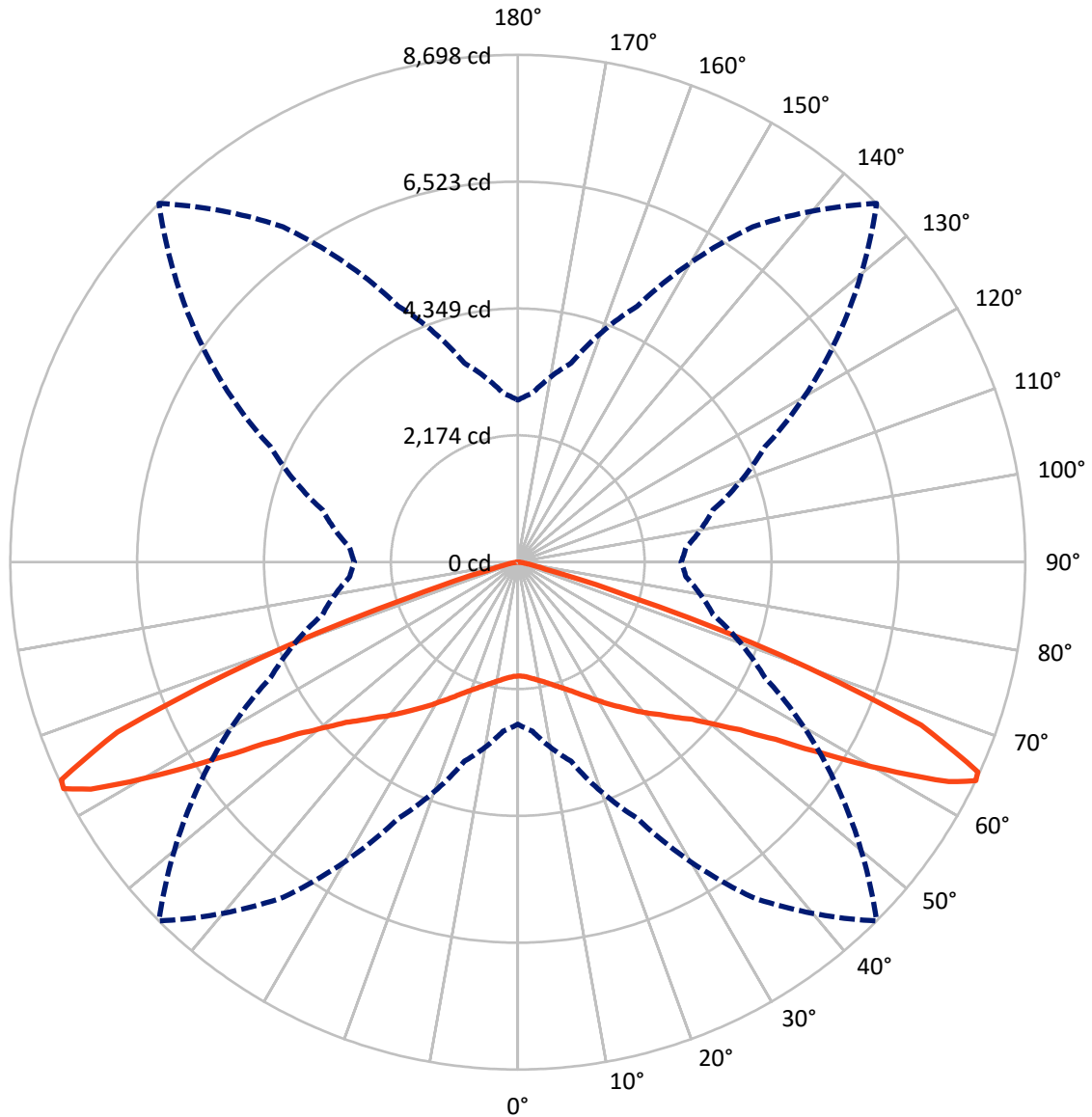
× Max cd  
 - - - 1/2 Max cd



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 64-Deg Vertical



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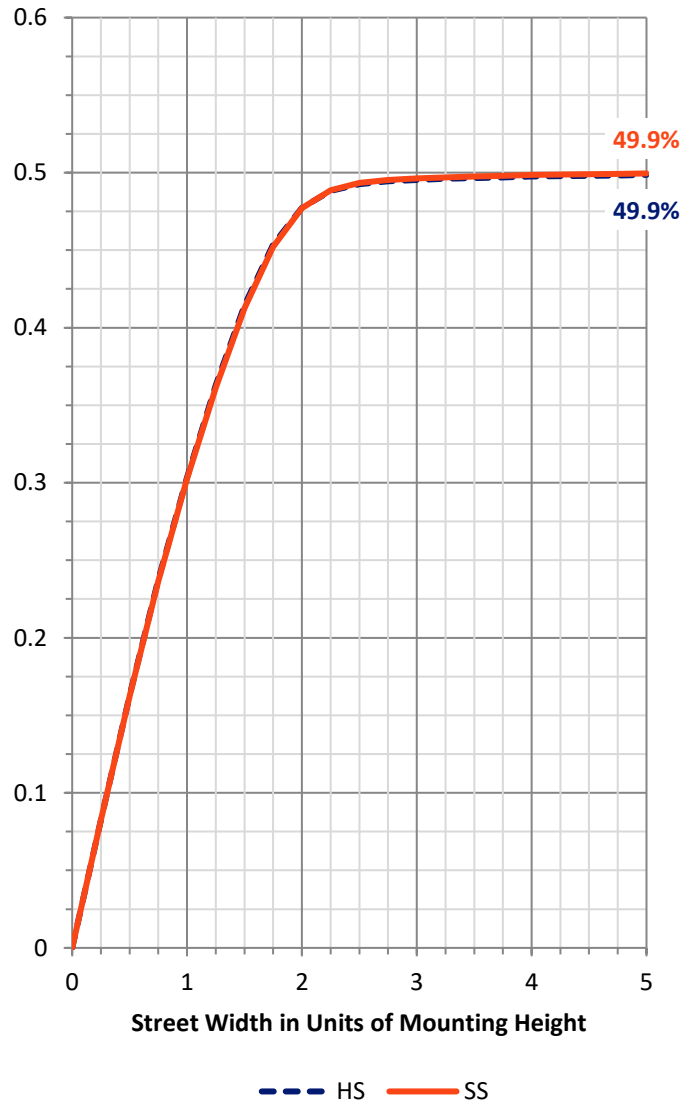
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8072.5	0.0	8072.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	8072.5	0.0	8072.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	16145.0	0.0	16145.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	191.7	1.2
10°-20°	618.4	3.8
20°-30°	1168.6	7.2
30°-40°	1935.3	12.0
40°-50°	3021.3	18.7
50°-60°	4670.9	28.9
60°-70°	4027.7	24.9
70°-80°	456.4	2.8
80°-90°	54.7	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°	16145.0	100.0
0°-180°	16145.0	100.0

**Coefficient of Utilization**



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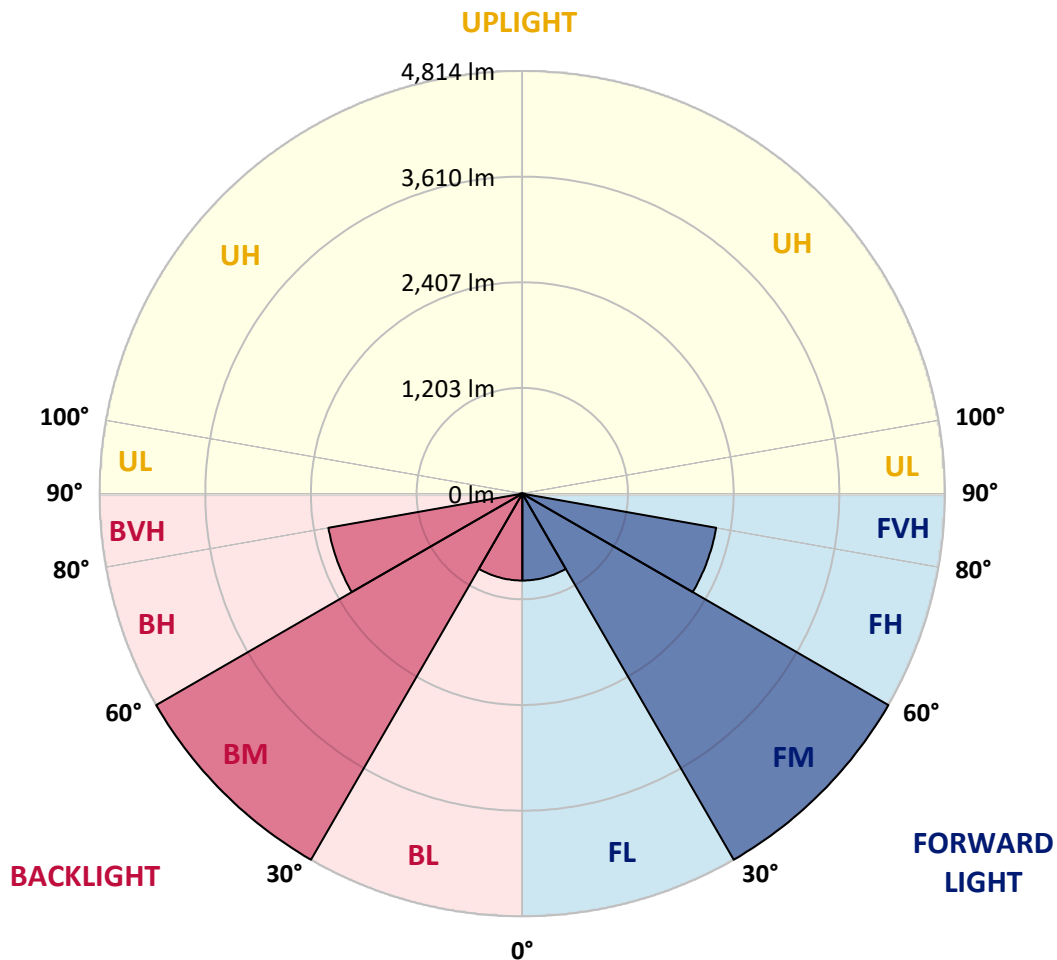
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	989.3	6.1			
FM (30°-60°)	4813.8	29.8			
FH (60°-80°)	2242.0	13.9			G2/5000
FVH (80°-90°)	27.3	0.2			G1/100
BL (0°-30°)	989.3	6.1	B2/1000		
BM (30°-60°)	4813.8	29.8	B3/5000		
BH (60°-80°)	2242.0	13.9	B3/2500		G2/5000
BVH (80°-90°)	27.3	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-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1951.4	1951.4	1951.4	1951.4	1951.4	1951.4	1951.4	1951.4	1951.4	1951.4	1951.4
2.5°	1959.1	1963.4	1959.9	1959.1	1958.2	1958.2	1958.2	1959.1	1962.5	1965.1	1963.4
5°	1983.9	1987.3	1985.6	1984.7	1983.9	1983.9	1983.0	1982.2	1984.7	1984.7	1983.9
7.5°	2014.7	2018.9	2017.2	2018.9	2019.8	2020.7	2016.4	2013.0	2012.1	2014.7	2013.0
10°	2056.6	2060.0	2060.9	2061.7	2063.4	2062.6	2057.4	2051.4	2050.6	2049.7	2048.9
12.5°	2103.6	2106.2	2107.0	2110.4	2113.0	2113.9	2107.9	2102.8	2094.2	2095.9	2092.5
15°	2156.6	2161.8	2160.9	2166.0	2172.9	2174.6	2168.6	2160.0	2152.3	2148.1	2145.5
17.5°	2221.6	2225.0	2223.3	2228.5	2237.0	2241.3	2236.2	2225.0	2217.3	2207.9	2202.8
20°	2298.6	2304.6	2306.3	2306.3	2314.0	2318.2	2310.5	2307.1	2295.2	2288.3	2284.0
22.5°	2385.8	2388.4	2393.5	2398.6	2406.3	2404.6	2402.0	2396.9	2385.8	2379.8	2373.0
25°	2484.1	2486.7	2499.5	2510.6	2513.2	2511.5	2508.1	2505.5	2495.3	2481.6	2476.4
27.5°	2598.7	2603.9	2621.0	2631.2	2631.2	2632.1	2625.2	2633.8	2611.6	2595.3	2593.6
30°	2742.4	2745.8	2760.3	2770.6	2765.5	2761.2	2759.5	2768.0	2744.1	2715.0	2708.2
32.5°	2884.3	2896.3	2909.1	2931.4	2913.4	2905.7	2904.0	2910.0	2882.6	2850.1	2840.7
35°	3036.5	3045.1	3069.0	3087.9	3071.6	3053.7	3061.3	3080.2	3047.7	3004.1	3002.3
37.5°	3205.0	3212.7	3243.5	3263.2	3251.2	3220.4	3233.2	3255.5	3223.0	3169.1	3158.0
40°	3380.3	3396.6	3435.0	3455.6	3435.9	3394.8	3418.8	3442.7	3413.7	3351.2	3326.4
42.5°	3577.0	3602.6	3658.2	3668.5	3630.9	3575.3	3617.2	3655.7	3635.1	3563.3	3553.9
45°	3807.0	3822.4	3890.8	3913.1	3860.9	3791.6	3843.8	3913.9	3898.5	3815.6	3797.6
47.5°	4064.4	4078.9	4149.9	4183.3	4117.4	4024.2	4118.3	4209.8	4200.4	4111.4	4102.9
50°	4368.8	4372.3	4470.6	4508.2	4442.4	4362.0	4445.8	4559.5	4521.9	4408.2	4406.5
52.5°	4702.3	4706.6	4830.6	4903.3	4866.5	4775.9	4875.1	4944.3	4848.6	4699.8	4688.6
55°	4991.4	5012.7	5182.1	5375.3	5425.8	5359.9	5389.9	5357.4	5121.3	4912.7	4880.2
57.5°	5109.4	5151.3	5408.7	5769.5	6097.9	6195.4	5964.5	5654.9	5229.9	4934.9	4903.3
60°	4821.2	4866.5	5265.9	5950.8	6788.8	7212.1	6563.1	5705.4	4982.8	4568.1	4518.5
62.5°	3860.9	3873.7	4461.2	5524.1	7191.6	8287.9	6815.3	5275.3	4263.7	3700.1	3680.5
64°	2778.3	2910.0	3532.5	4843.4	7015.4	8697.5	6670.0	4672.4	3463.3	2892.9	2800.5
65°	2078.0	2113.9	2847.6	4136.2	6705.0	8666.7	6387.8	4096.0	2868.1	2213.9	2111.3
67.5°	785.0	789.3	1050.9	2061.7	4773.3	7456.7	4875.1	2228.5	1208.3	873.9	842.3
70°	325.8	331.8	385.7	693.5	2051.4	4787.8	2350.7	803.8	442.1	358.3	353.2
72.5°	238.6	242.0	258.2	307.8	631.1	1965.9	773.0	341.2	259.1	231.7	229.2
75°	187.3	189.0	201.0	226.6	294.2	544.7	321.5	234.3	197.5	177.9	176.2
77.5°	142.8	147.1	155.6	172.7	197.5	258.2	212.9	175.3	152.2	136.0	133.4
80°	98.3	103.5	119.7	126.6	132.5	167.6	145.4	132.5	118.9	99.2	93.2
82.5°	60.7	64.1	80.4	86.4	83.8	94.1	93.2	94.9	84.7	61.6	57.3
85°	31.6	33.3	43.6	45.3	41.9	38.5	47.9	55.6	52.2	35.1	34.2
87.5°	6.8	7.7	9.4	8.6	9.4	9.4	12.0	18.0	18.8	12.0	11.1
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)