

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: P948421

Luminaire Tested: **GALN-SB3C-727-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948421
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3C-727-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21827 lumens
Efficiency: N/A
Efficacy: 146.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 149.1
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



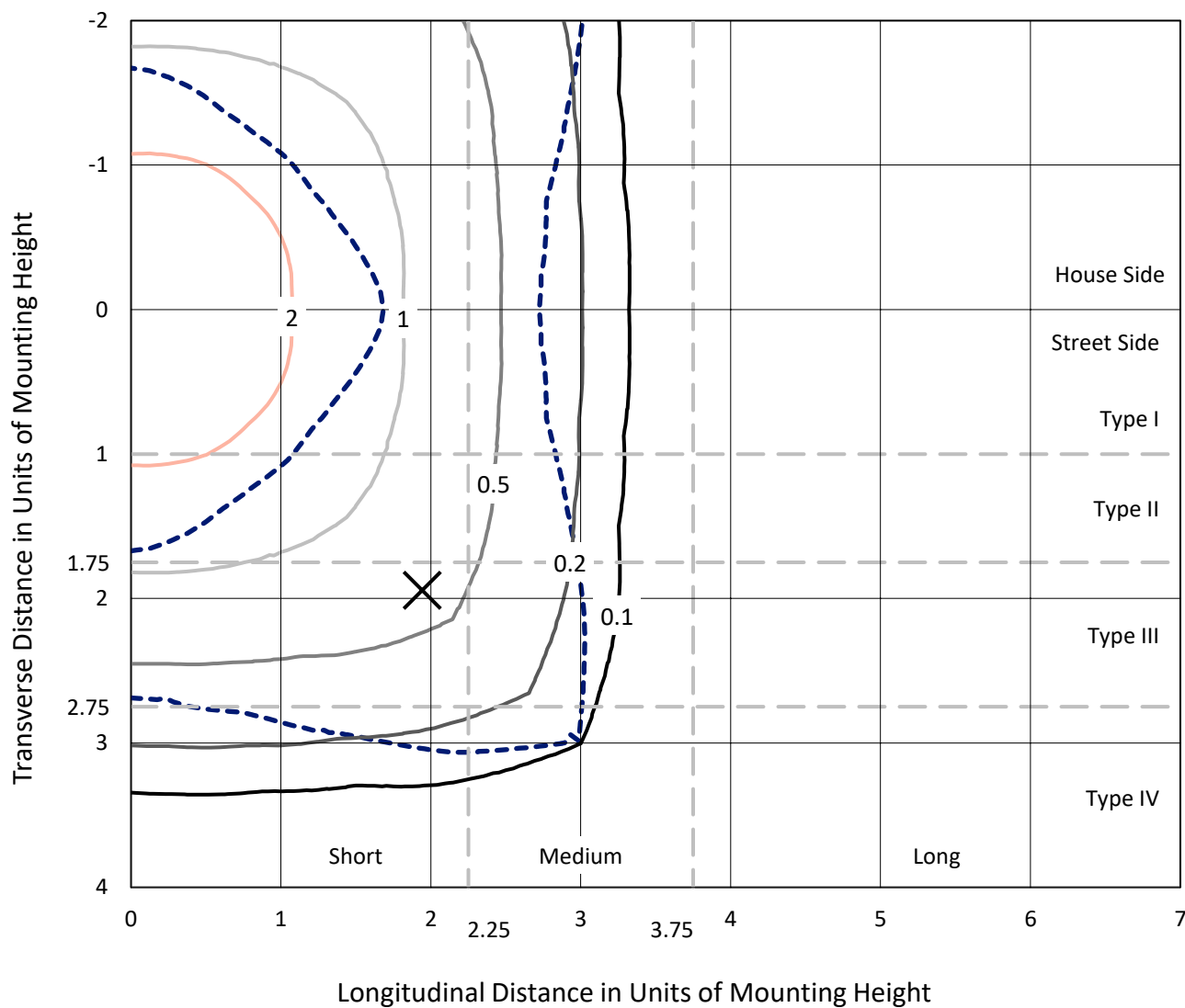
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

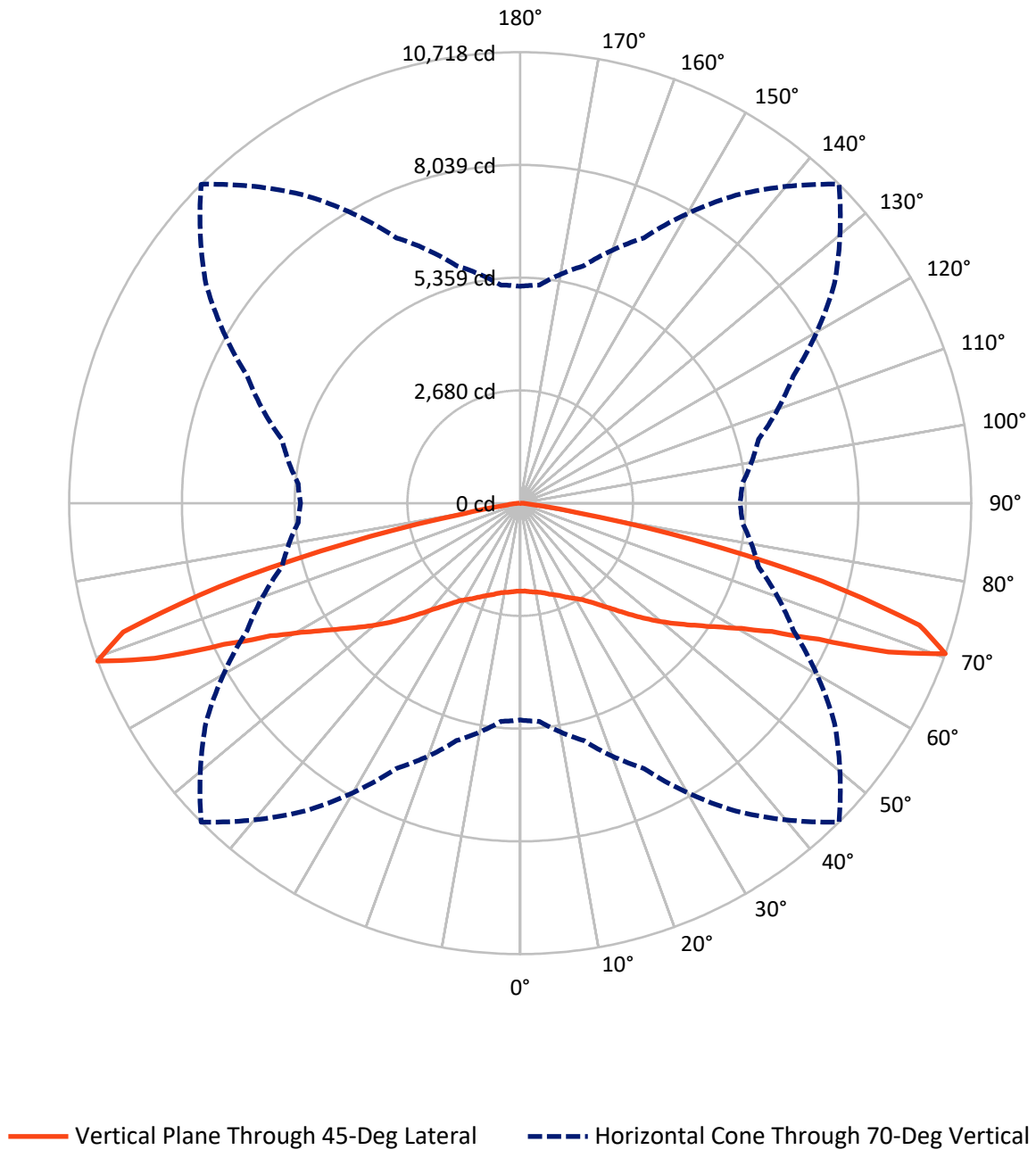


Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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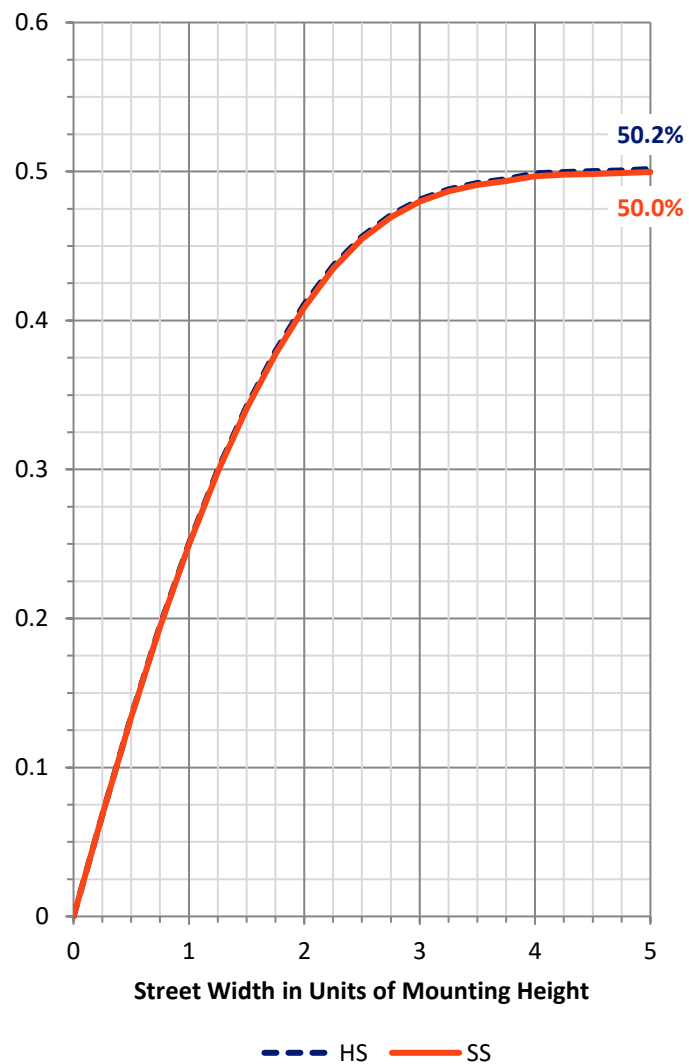
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10913.5	0.0	10913.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10913.5	0.0	10913.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	21827.0	0.0	21827.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.1	0.9
10°-20°	629.9	2.9
20°-30°	1125.6	5.2
30°-40°	1824.6	8.4
40°-50°	2972.0	13.6
50°-60°	4531.3	20.8
60°-70°	6741.2	30.9
70°-80°	3674.2	16.8
80°-90°	125.1	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°	21827.0	100.0
0°-180°	21827.0	100.0

Coefficient of Utilization



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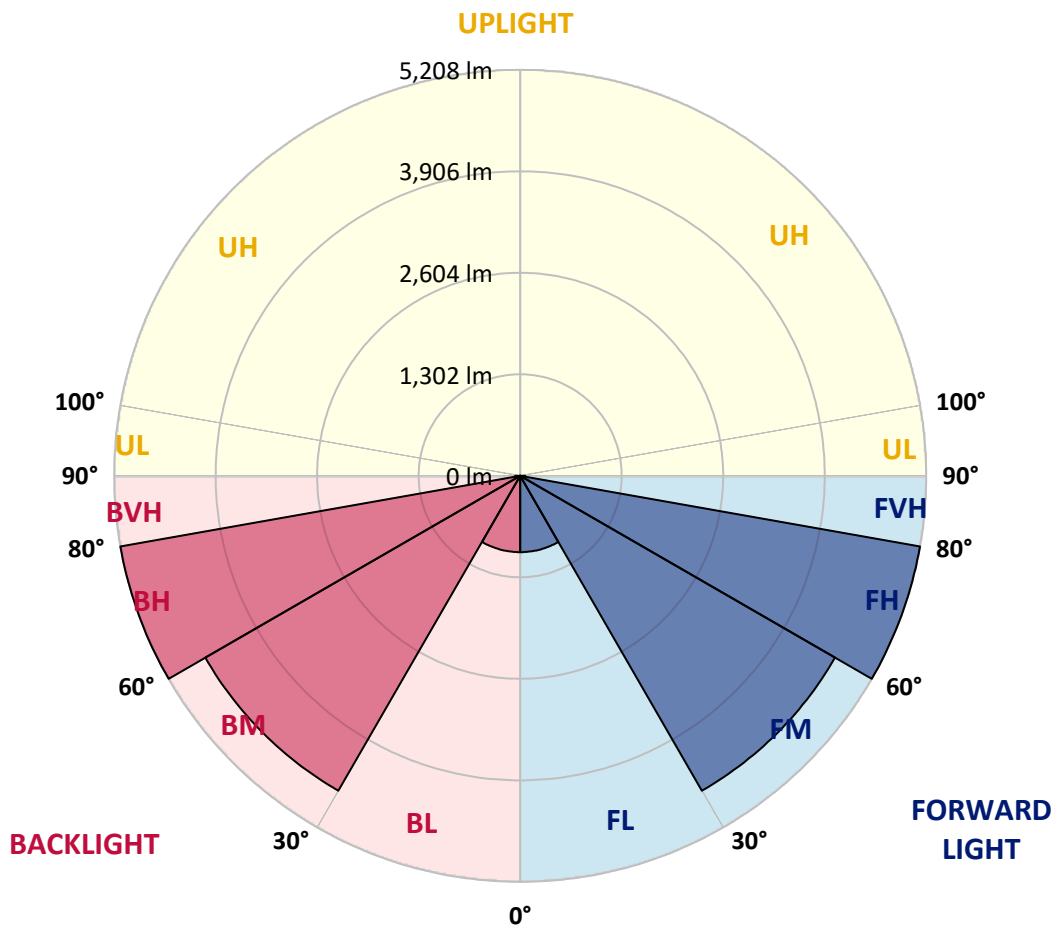
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	979.3	4.5			
FM	(30°-60°)	4664.0	21.4			
FH	(60°-80°)	5207.7	23.9			G3/7500
FVH	(80°-90°)	62.6	0.3			G1/100
BL	(0°-30°)	979.3	4.5	B2/1000		
BM	(30°-60°)	4664.0	21.4	B3/5000		
BH	(60°-80°)	5207.7	23.9	B5		G3/7500
BVH	(80°-90°)	62.6	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2090.8	2090.8	2090.8	2090.8	2090.8	2090.8	2090.8	2090.8	2090.8	2090.8	2090.8
2.5°	2100.7	2102.9	2098.5	2096.3	2094.1	2090.8	2091.9	2097.4	2101.8	2100.7	2101.8
5°	2118.2	2120.4	2117.1	2116.0	2111.6	2110.5	2110.5	2116.0	2119.3	2117.1	2118.2
7.5°	2137.9	2141.2	2135.7	2134.6	2132.4	2130.2	2129.2	2134.6	2137.9	2137.9	2137.9
10°	2156.5	2159.8	2155.5	2152.2	2150.0	2150.0	2147.8	2152.2	2157.6	2156.5	2156.5
12.5°	2176.3	2178.5	2174.1	2171.9	2171.9	2175.2	2171.9	2174.1	2178.5	2176.3	2175.2
15°	2200.4	2201.5	2200.4	2203.7	2209.1	2220.1	2210.2	2208.1	2210.2	2204.8	2204.8
17.5°	2233.3	2235.4	2239.8	2247.5	2255.2	2274.9	2257.4	2251.9	2251.9	2240.9	2240.9
20°	2273.8	2277.1	2283.7	2296.8	2306.7	2325.3	2307.8	2300.1	2296.8	2282.6	2282.6
22.5°	2316.5	2322.0	2331.9	2349.4	2366.9	2384.5	2366.9	2353.8	2343.9	2325.3	2324.2
25°	2365.8	2372.4	2387.8	2416.3	2440.4	2465.6	2444.7	2418.4	2398.7	2372.4	2371.3
27.5°	2436.0	2443.7	2462.3	2497.3	2528.0	2549.9	2530.2	2496.2	2468.9	2437.1	2436.0
30°	2534.6	2542.3	2564.2	2601.4	2622.3	2636.5	2623.4	2597.1	2564.2	2528.0	2528.0
32.5°	2661.7	2671.6	2695.7	2730.8	2735.1	2737.3	2732.9	2719.8	2695.7	2651.9	2652.9
35°	2822.8	2833.8	2861.2	2889.6	2885.3	2889.6	2883.1	2878.7	2861.2	2810.7	2810.7
37.5°	3020.0	3033.2	3061.7	3083.6	3072.6	3067.2	3068.3	3069.4	3059.5	3003.6	3003.6
40°	3249.1	3266.6	3287.4	3310.4	3291.8	3275.4	3286.3	3295.1	3286.3	3229.3	3229.3
42.5°	3484.7	3509.9	3531.8	3564.7	3549.3	3528.5	3543.8	3553.7	3535.1	3473.7	3478.1
45°	3746.6	3770.7	3799.2	3848.5	3837.5	3815.6	3837.5	3839.7	3807.9	3735.6	3743.3
47.5°	4017.2	4042.4	4085.2	4150.9	4146.5	4122.4	4150.9	4135.6	4095.0	4008.5	4003.0
50°	4273.6	4308.7	4374.5	4466.5	4475.3	4445.7	4484.0	4454.5	4386.5	4278.0	4275.8
52.5°	4514.7	4552.0	4656.1	4781.0	4812.8	4774.4	4825.9	4774.4	4672.5	4533.4	4520.2
55°	4767.9	4809.5	4933.3	5096.6	5160.2	5131.7	5179.9	5102.1	4957.4	4788.7	4765.7
57.5°	5065.9	5091.1	5239.1	5433.0	5540.4	5547.0	5568.9	5437.4	5262.1	5070.3	5044.0
60°	5389.2	5424.2	5585.3	5817.6	5987.5	6042.3	6019.3	5824.2	5620.4	5400.1	5365.1
62.5°	5803.4	5841.7	6034.6	6312.9	6581.4	6717.3	6627.4	6344.7	6092.7	5828.6	5782.6
65°	6146.4	6189.1	6537.6	7034.0	7522.7	7795.6	7569.8	7049.3	6595.7	6223.1	6161.7
67.5°	5897.6	5950.2	6497.0	7408.8	8624.0	9438.2	8665.6	7520.5	6631.8	6126.7	6051.0
70°	5154.7	5204.0	5841.7	6956.2	8934.1	10718.1	9120.4	7161.1	5862.6	5297.1	5221.5
72.5°	3422.2	3581.1	4226.5	5563.4	7977.5	9918.2	8056.4	5450.5	3920.8	3414.5	3303.9
75°	1135.3	1262.4	1702.9	2884.2	5343.2	7417.5	5086.7	2552.1	1348.9	970.9	918.3
77.5°	286.0	329.8	454.8	825.1	2131.3	4223.2	1918.8	673.9	367.1	256.4	229.0
80°	139.2	153.4	219.2	275.0	533.7	1342.4	500.8	258.6	173.1	133.7	122.7
82.5°	76.7	77.8	123.8	155.6	198.3	347.4	206.0	151.2	99.7	81.1	81.1
85°	47.1	46.0	65.7	83.3	83.3	123.8	98.6	83.3	57.0	50.4	52.6
87.5°	18.6	18.6	24.1	26.3	23.0	31.8	25.2	27.4	21.9	20.8	21.9
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)