

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: P453235

Luminaire Tested: **GALN-SA4B-730-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453235
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-SA4B-730-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21501 lumens
Efficiency: N/A
Efficacy: 131.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

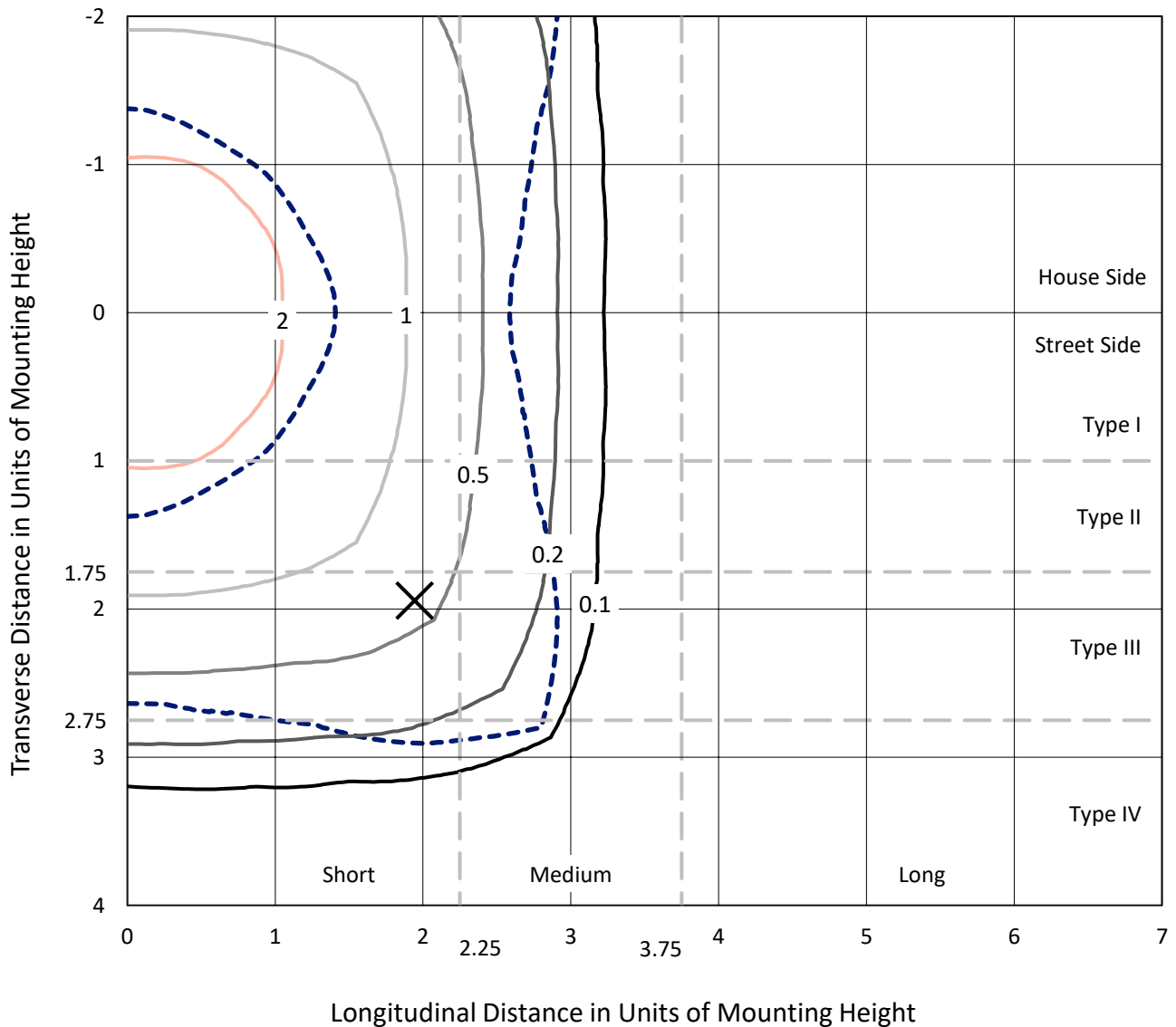
Input Watts (W): 164
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

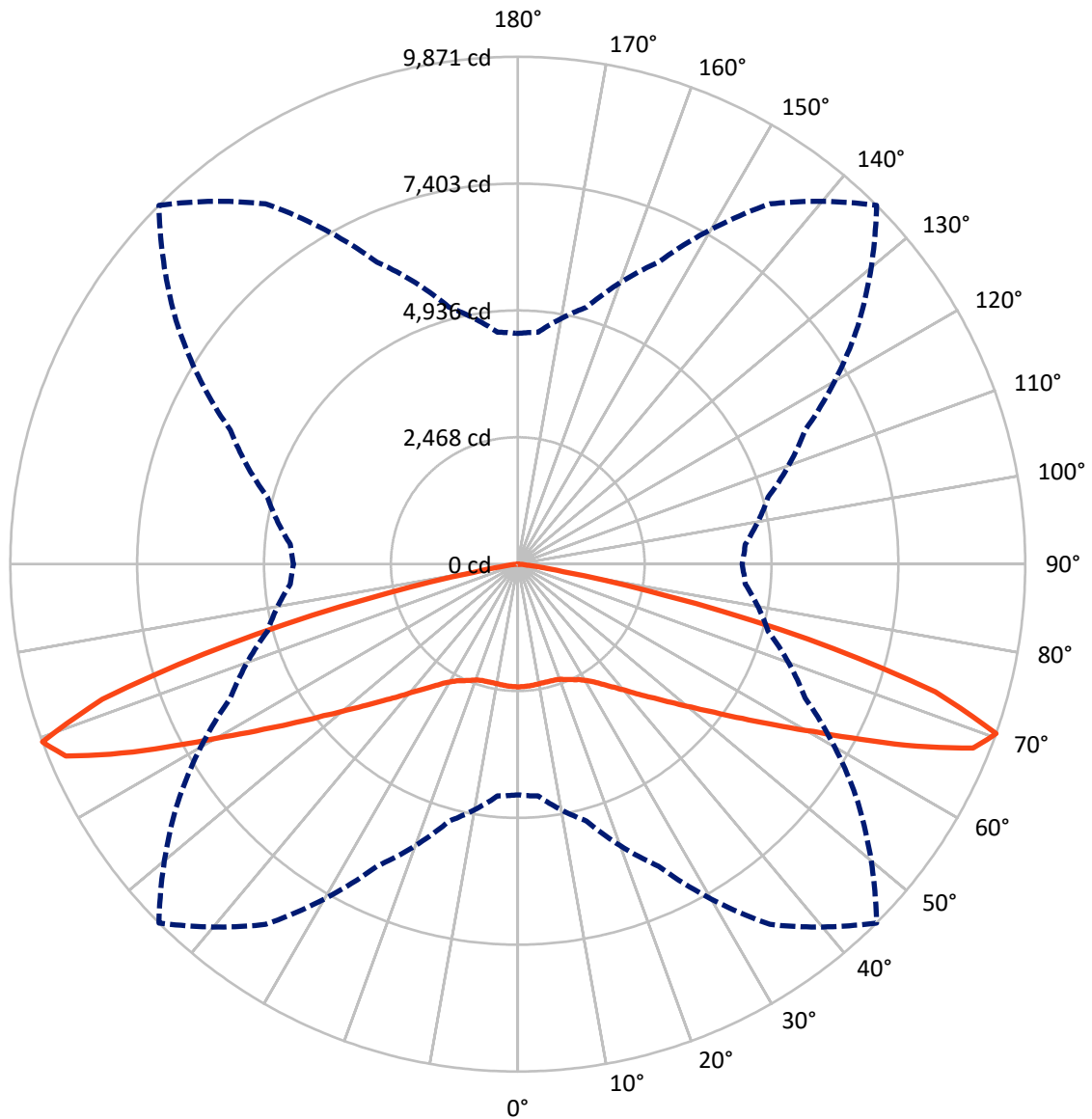
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 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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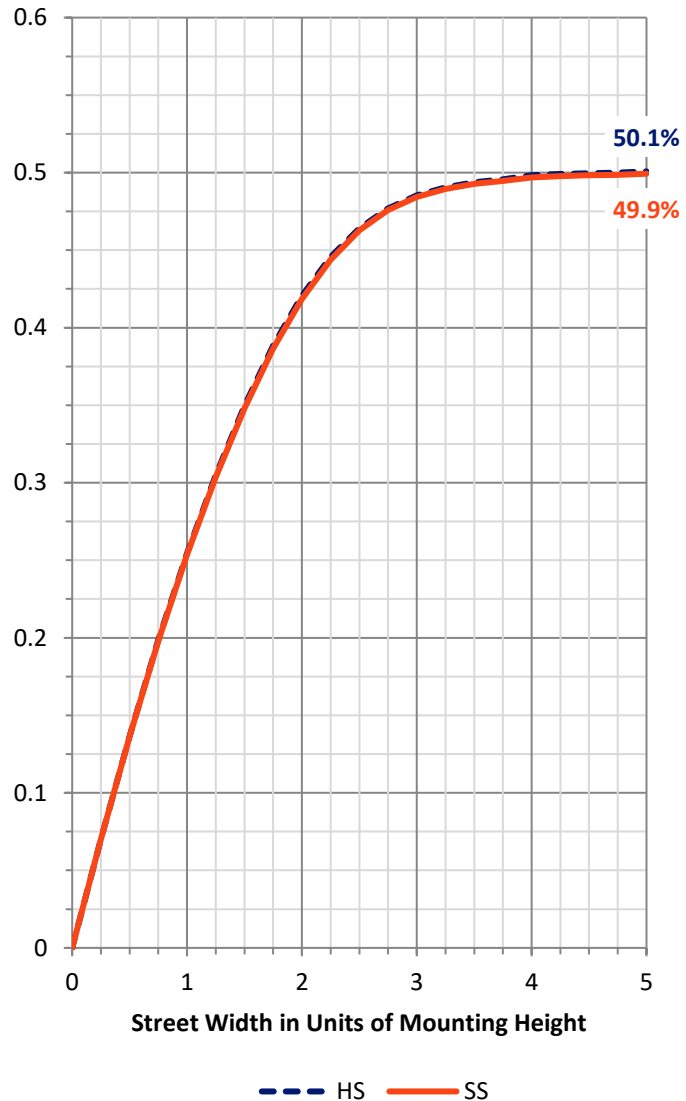
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10750.5	0.0	10750.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10750.5	0.0	10750.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	21501.0	0.0	21501.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.4	1.1
10°-20°	664.4	3.1
20°-30°	1136.3	5.3
30°-40°	1803.6	8.4
40°-50°	2909.6	13.5
50°-60°	4734.0	22.0
60°-70°	6862.6	31.9
70°-80°	3044.0	14.2
80°-90°	120.1	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°	21501.0	100.0
0°-180°	21501.0	100.0

Coefficient of Utilization



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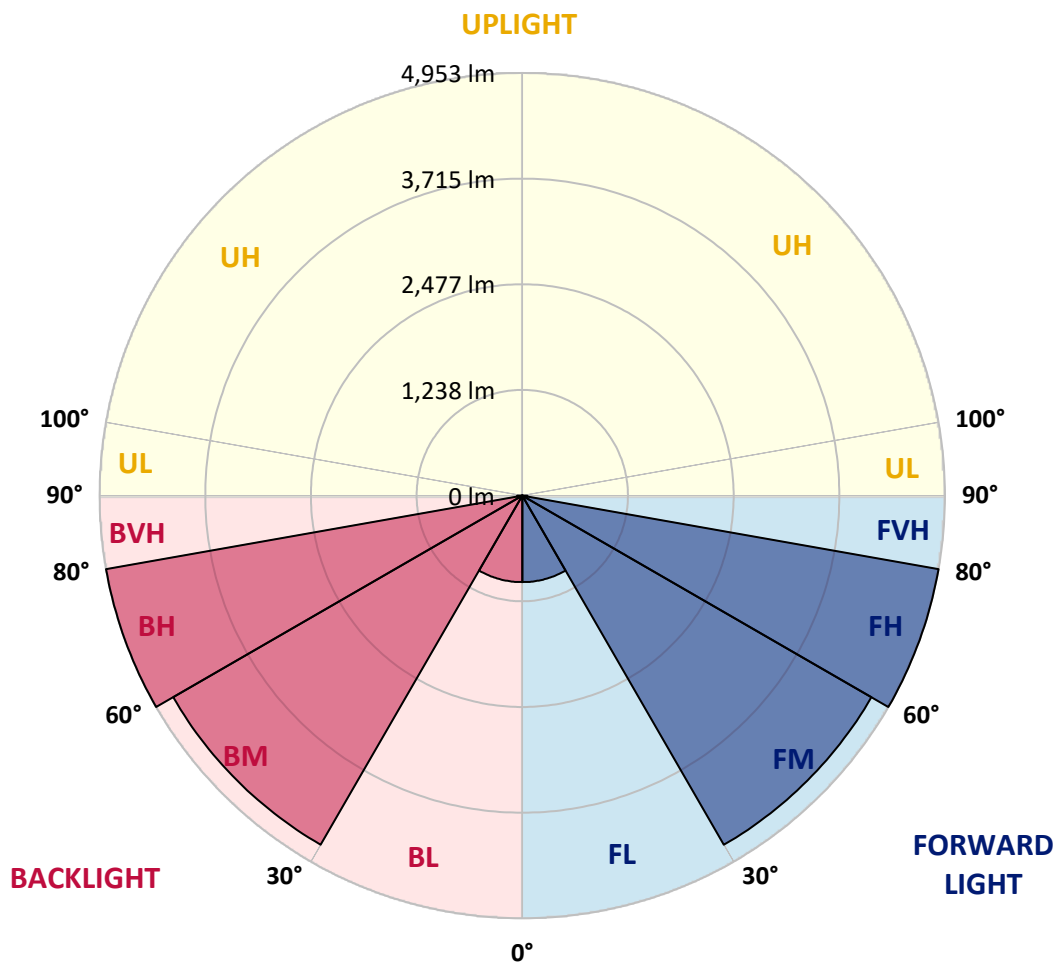
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1013.6	4.7			
FM (30°-60°)	4723.6	22.0			
FH (60°-80°)	4953.3	23.0			G2/5000
FVH (80°-90°)	60.0	0.3			G1/100
BL (0°-30°)	1013.6	4.7	B3/2500		
BM (30°-60°)	4723.6	22.0	B3/5000		
BH (60°-80°)	4953.3	23.0	B4/5000		G2/5000
BVH (80°-90°)	60.0	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°	2387.6	2387.6	2387.6	2387.6	2387.6	2387.6	2387.6	2387.6	2387.6	2387.6	2387.6
2.5°	2387.6	2389.9	2386.5	2384.2	2383.1	2383.1	2381.9	2383.1	2389.9	2391.0	2387.6
5°	2380.8	2383.1	2381.9	2379.7	2378.5	2378.5	2377.4	2376.3	2381.9	2384.2	2383.1
7.5°	2371.7	2372.9	2371.7	2370.6	2371.7	2370.6	2367.2	2364.9	2369.5	2369.5	2368.3
10°	2355.9	2358.1	2357.0	2358.1	2360.4	2360.4	2355.9	2351.3	2352.5	2350.2	2350.2
12.5°	2336.6	2340.0	2341.1	2345.7	2351.3	2358.1	2347.9	2337.7	2335.5	2334.3	2333.2
15°	2324.1	2327.5	2332.1	2336.6	2346.8	2361.5	2346.8	2330.9	2326.4	2321.9	2319.6
17.5°	2320.7	2325.3	2332.1	2338.9	2352.5	2367.2	2354.7	2338.9	2327.5	2320.7	2318.5
20°	2329.8	2333.2	2343.4	2355.9	2375.1	2389.9	2377.4	2360.4	2343.4	2333.2	2329.8
22.5°	2347.9	2353.6	2366.1	2388.7	2415.9	2437.4	2420.4	2392.1	2364.9	2351.3	2346.8
25°	2387.6	2392.1	2406.8	2437.4	2469.2	2489.6	2471.4	2438.6	2401.2	2383.1	2377.4
27.5°	2447.6	2454.4	2470.3	2506.6	2532.6	2544.0	2531.5	2508.8	2481.6	2462.4	2457.8
30°	2532.6	2540.6	2564.4	2602.9	2619.9	2626.7	2621.0	2606.3	2587.0	2566.6	2562.1
32.5°	2647.1	2651.6	2678.8	2715.1	2730.9	2733.2	2726.4	2719.6	2687.9	2653.9	2651.6
35°	2775.1	2783.1	2815.9	2859.0	2873.7	2874.8	2861.2	2851.1	2813.7	2786.5	2786.5
37.5°	2945.1	2948.5	2980.2	3029.0	3044.8	3040.3	3033.5	3024.4	2984.8	2949.6	2950.8
40°	3144.5	3151.3	3178.5	3235.2	3235.2	3229.5	3234.1	3227.3	3187.6	3153.6	3154.7
42.5°	3381.4	3384.8	3417.6	3477.7	3473.2	3461.8	3466.4	3457.3	3432.4	3393.8	3380.2
45°	3634.1	3647.7	3704.3	3762.1	3753.1	3716.8	3734.9	3732.7	3710.0	3652.2	3655.6
47.5°	3938.9	3961.6	4015.9	4085.1	4074.9	4018.2	4038.6	4052.2	4020.5	3957.0	3945.7
50°	4282.2	4297.0	4377.4	4442.0	4433.0	4372.9	4419.4	4421.6	4342.3	4252.8	4252.8
52.5°	4648.3	4663.0	4771.8	4872.6	4878.3	4791.0	4828.4	4826.2	4697.0	4579.1	4556.5
55°	5058.5	5065.3	5205.8	5354.2	5385.9	5301.0	5305.5	5260.2	5092.5	4955.3	4942.9
57.5°	5482.3	5507.2	5662.4	5855.1	5949.1	5897.0	5873.2	5752.0	5589.9	5432.4	5424.5
60°	5951.4	5952.5	6154.2	6382.0	6572.4	6607.5	6510.0	6348.0	6138.4	5929.9	5920.8
62.5°	6276.6	6325.3	6580.3	6965.6	7306.7	7503.8	7246.6	6906.7	6494.2	6157.6	6123.6
65°	6343.5	6376.3	6765.0	7417.7	8114.6	8539.6	7944.6	7221.7	6518.0	6069.2	6046.6
67.5°	5803.0	5838.1	6361.6	7363.3	8681.2	9552.6	8397.9	7069.8	6114.6	5559.3	5515.1
70°	4488.5	4528.1	5175.2	6481.7	8555.4	9871.0	8075.0	6166.7	5042.6	4443.2	4362.7
72.5°	2386.5	2532.6	3085.6	4448.8	6944.1	8498.8	6621.1	4499.8	3252.2	2658.4	2551.9
75°	871.4	889.5	1197.8	1972.8	4039.7	5827.9	4195.0	2146.2	1234.0	953.0	904.3
77.5°	360.3	359.2	394.3	596.0	1467.5	2984.8	1637.4	630.0	393.2	363.7	359.2
80°	213.0	213.0	234.6	248.2	386.4	900.9	431.7	281.0	235.7	215.3	218.7
82.5°	95.2	100.9	148.4	156.4	187.0	247.0	208.5	179.0	154.1	106.5	96.3
85°	52.1	45.3	78.2	81.6	89.5	91.8	98.6	97.5	89.5	52.1	53.3
87.5°	10.2	12.5	22.7	17.0	19.3	17.0	22.7	31.7	32.9	18.1	14.7
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)