

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: P529965

Luminaire Tested: **GALN-SA5A-830-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529965
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5A-830-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12502 lumens
Efficiency: N/A
Efficacy: 81.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G0

Input Watts (W): 154
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



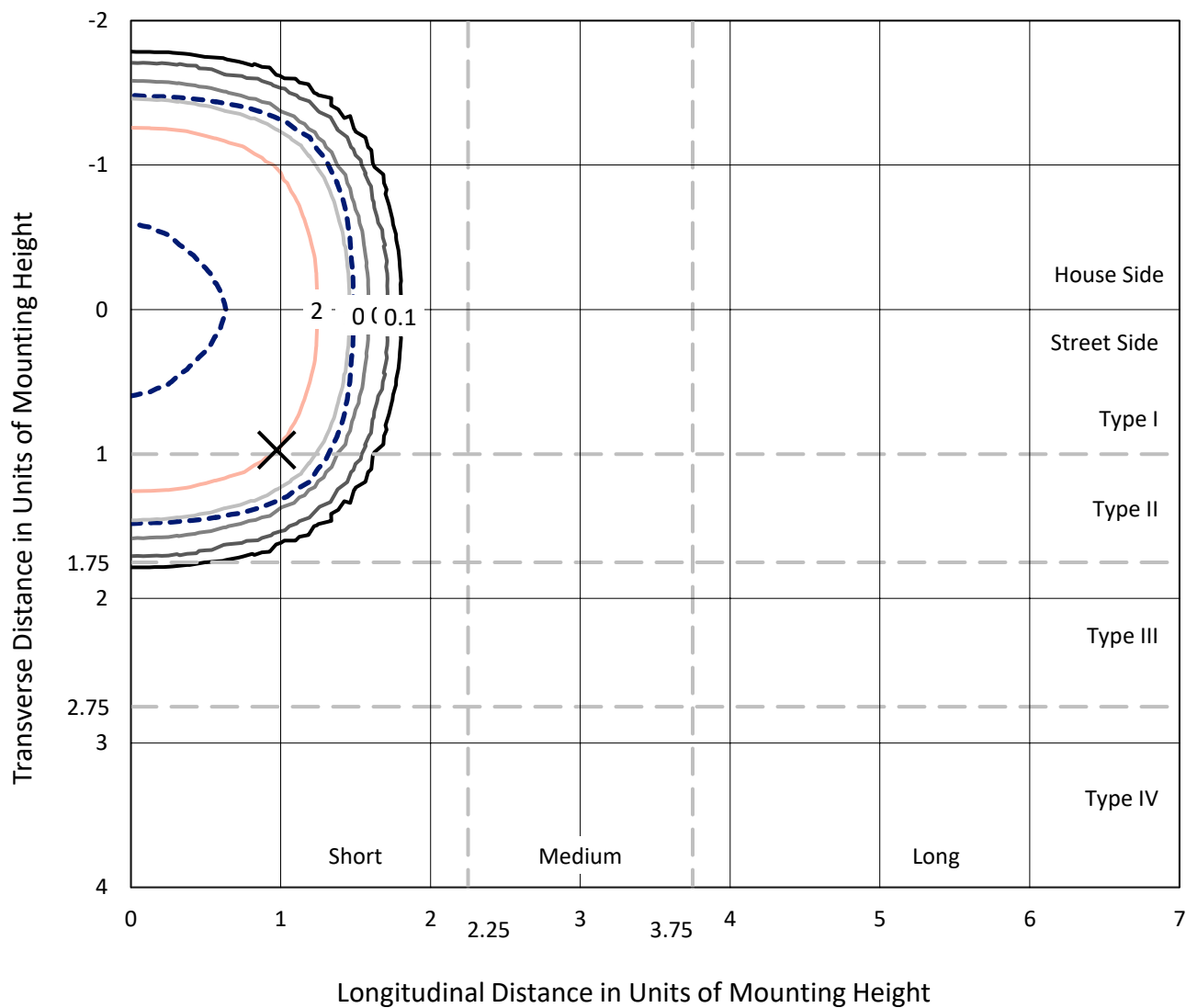
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

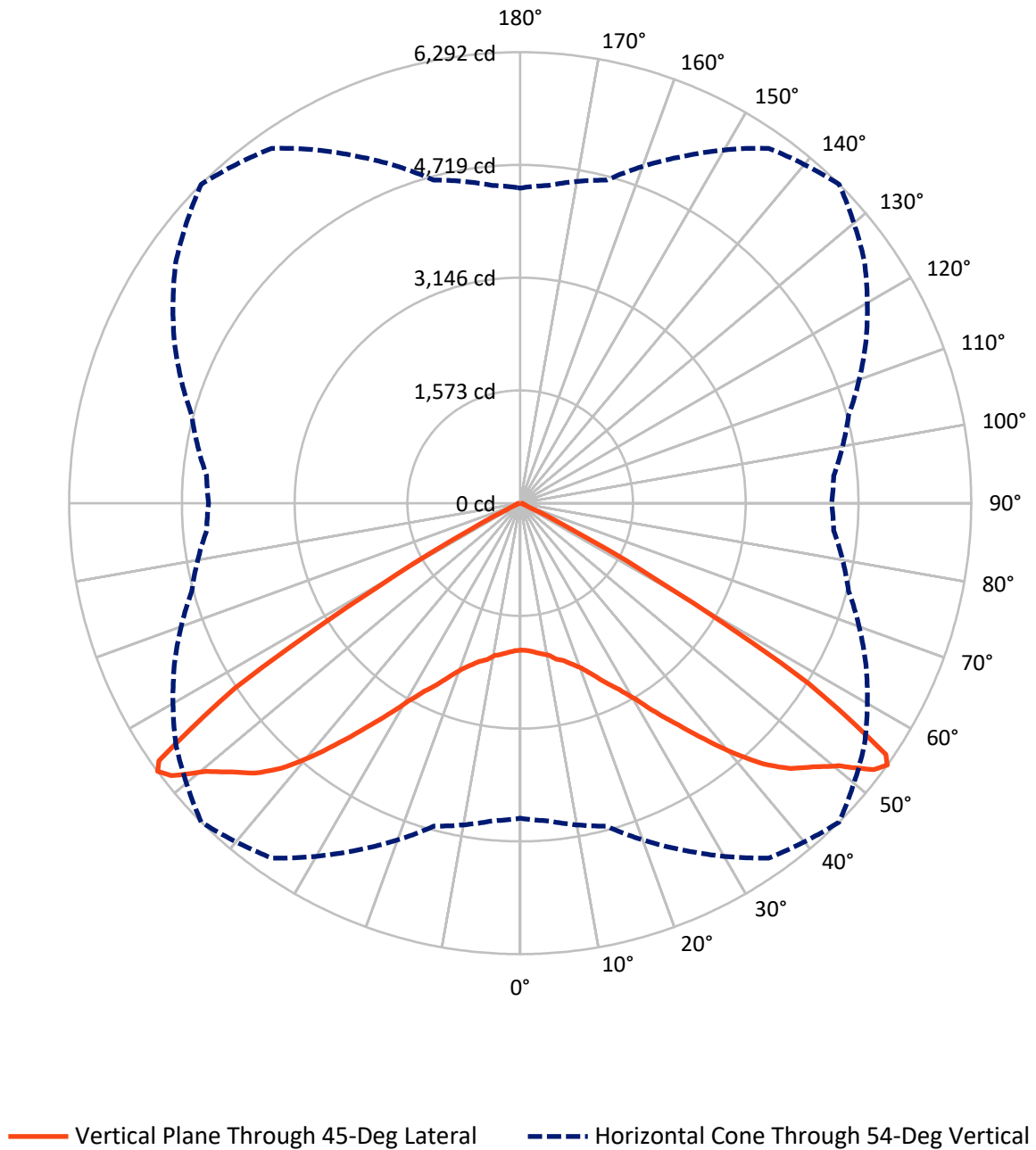
--- 1/2 Max cd



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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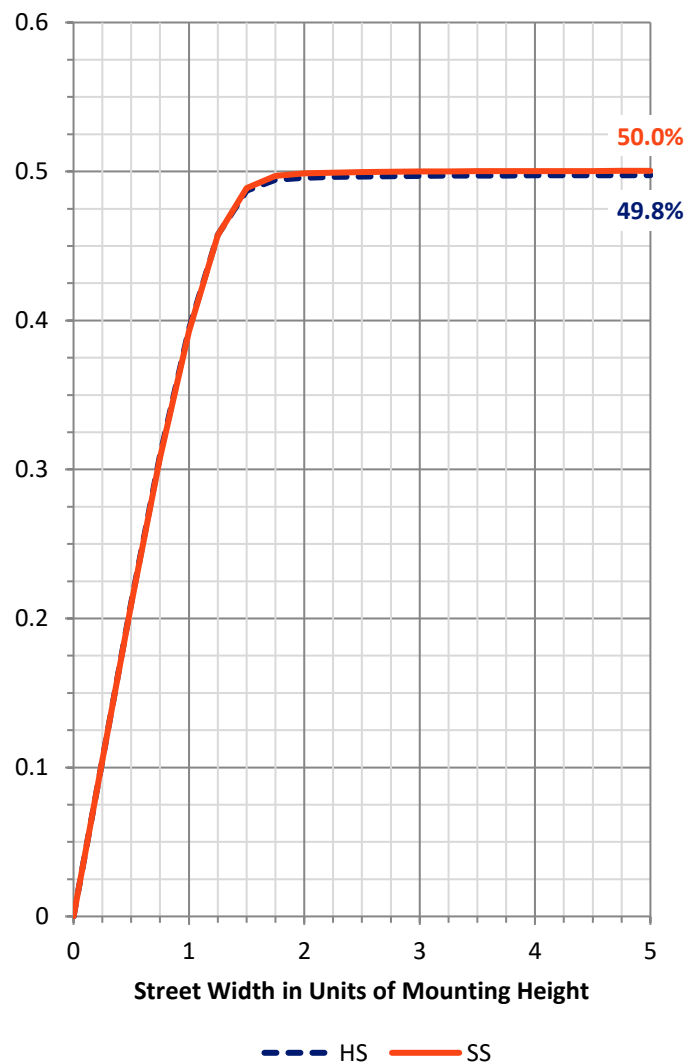
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6251.0	0.0	6251.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6251.0	0.0	6251.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	12502.0	0.0	12502.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.6	1.6
10°-20°	649.8	5.2
20°-30°	1273.5	10.2
30°-40°	2290.0	18.3
40°-50°	3920.0	31.4
50°-60°	3793.0	30.3
60°-70°	324.7	2.6
70°-80°	38.5	0.3
80°-90°	12.1	0.1
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°	12502.0	100.0
0°-180°	12502.0	100.0

Coefficient of Utilization



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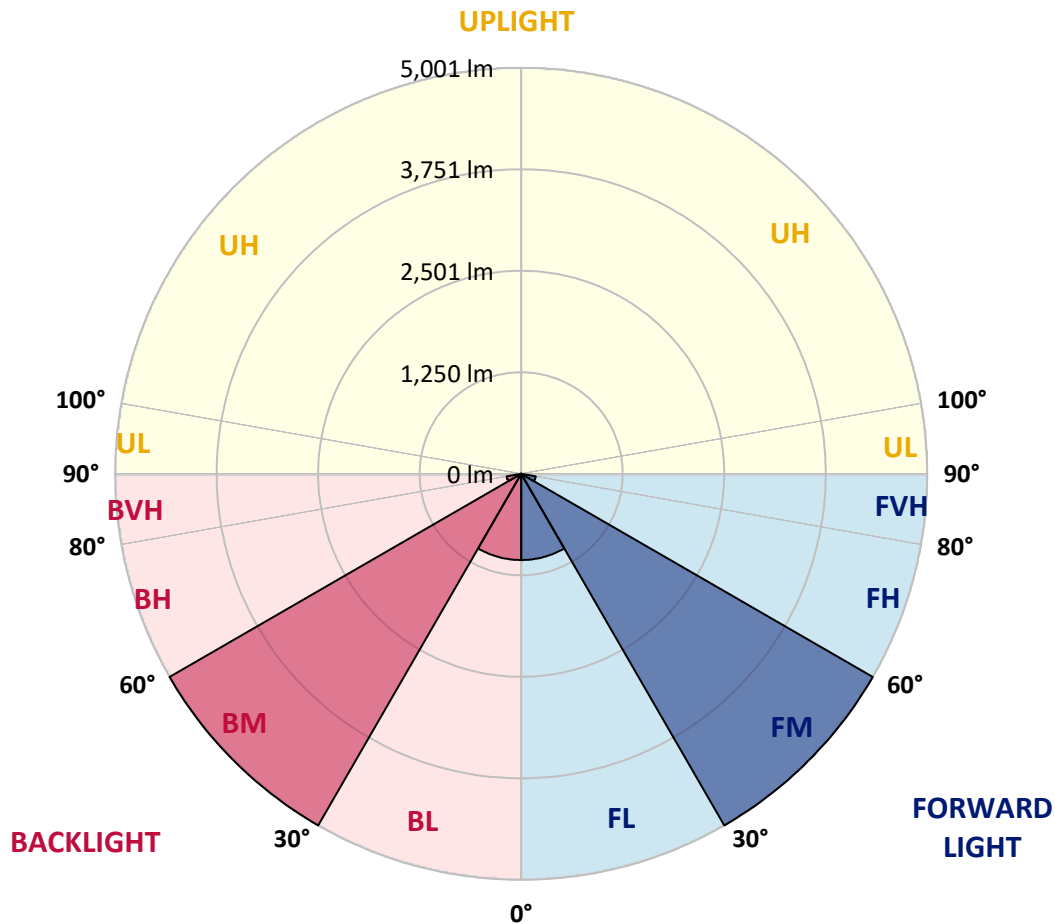
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1061.9	8.5			
FM	(30°-60°)	5001.5	40.0			
FH	(60°-80°)	181.6	1.5			G0/660
FVH	(80°-90°)	6.0	0.0			G0/10
BL	(0°-30°)	1061.9	8.5	B3/2500		
BM	(30°-60°)	5001.5	40.0	B4/8500		
BH	(60°-80°)	181.6	1.5	B1/500		G0/660
BVH	(80°-90°)	6.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G0

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2049.9	2049.9	2049.9	2049.9	2049.9	2049.9	2049.9	2049.9	2049.9	2049.9	2049.9
2.5°	2059.8	2071.7	2063.8	2069.7	2069.7	2059.8	2065.8	2042.0	2057.9	2046.0	2048.0
5°	2091.5	2089.6	2089.6	2091.5	2083.6	2087.6	2079.6	2071.7	2065.8	2057.9	2081.6
7.5°	2131.1	2131.1	2117.3	2121.2	2117.3	2123.2	2107.4	2091.5	2085.6	2079.6	2075.7
10°	2168.8	2164.8	2158.9	2176.7	2162.8	2154.9	2147.0	2137.1	2115.3	2107.4	2099.5
12.5°	2224.2	2222.3	2214.3	2232.2	2224.2	2232.2	2202.4	2176.7	2172.7	2147.0	2160.9
15°	2289.6	2307.4	2293.6	2293.6	2289.6	2279.7	2267.8	2255.9	2220.3	2210.4	2212.3
17.5°	2374.8	2368.8	2370.8	2370.8	2390.6	2364.9	2341.1	2311.4	2293.6	2287.6	2267.8
20°	2456.0	2463.9	2461.9	2475.8	2487.7	2459.9	2434.2	2430.2	2380.7	2388.6	2360.9
22.5°	2598.6	2592.6	2602.5	2612.4	2604.5	2600.5	2576.8	2547.1	2503.5	2483.7	2479.7
25°	2749.1	2739.2	2721.4	2745.1	2757.0	2774.8	2729.3	2713.4	2646.1	2616.4	2618.4
27.5°	2877.8	2891.7	2911.5	2921.4	2951.1	2945.2	2913.5	2862.0	2810.5	2776.8	2755.0
30°	3054.1	3062.0	3095.7	3109.6	3161.1	3174.9	3125.4	3066.0	2974.9	2931.3	2905.6
32.5°	3216.5	3272.0	3270.0	3339.3	3422.5	3479.9	3390.8	3299.7	3208.6	3157.1	3111.5
35°	3479.9	3470.0	3527.5	3600.8	3735.4	3800.8	3703.8	3598.8	3460.1	3377.0	3341.3
37.5°	3725.5	3729.5	3806.7	3923.6	4078.1	4179.1	4093.9	3921.6	3779.0	3672.1	3622.5
40°	4082.1	4090.0	4169.2	4301.9	4476.2	4585.1	4486.1	4311.8	4121.7	4038.5	4038.5
42.5°	4500.0	4533.6	4585.1	4700.0	4856.5	4977.3	4888.2	4751.5	4559.4	4452.4	4468.3
45°	4929.8	4945.6	4979.3	5149.6	5222.9	5282.3	5199.1	5135.7	5007.0	4876.3	4854.5
47.5°	5331.8	5337.8	5436.8	5490.3	5547.7	5498.2	5551.7	5468.5	5323.9	5197.1	5171.4
50°	5510.1	5500.2	5640.8	5803.2	5846.8	5759.6	5714.1	5658.6	5438.8	5286.3	5218.9
52.5°	4991.2	5048.6	5310.0	5761.6	6102.3	6175.6	5910.2	5654.7	5244.7	4947.6	4902.0
54°	4397.0	4450.4	4666.3	5335.8	6044.8	6292.4	5864.6	5321.9	4743.6	4391.0	4345.5
55°	3808.7	3749.3	4141.5	4824.8	5775.5	6189.4	5684.4	4892.1	4230.6	3907.8	3844.4
57.5°	2061.8	2071.7	2402.5	3048.2	4058.3	4745.6	4191.0	3309.6	2499.5	2137.1	2105.4
60°	653.6	669.4	814.0	1231.9	1939.0	2315.3	1984.6	1329.0	919.0	736.8	707.1
62.5°	204.0	211.9	231.7	344.6	530.8	758.6	594.2	356.5	265.4	243.6	247.6
65°	124.8	124.8	126.8	134.7	158.4	184.2	178.3	156.5	150.5	146.6	144.6
67.5°	81.2	79.2	83.2	89.1	93.1	95.1	101.0	107.0	105.0	101.0	101.0
70°	49.5	47.5	51.5	59.4	61.4	65.4	71.3	79.2	77.2	73.3	75.3
72.5°	27.7	27.7	29.7	35.7	41.6	45.6	51.5	57.4	59.4	57.4	57.4
75°	9.9	11.9	15.8	21.8	25.7	31.7	37.6	43.6	49.5	45.6	43.6
77.5°	4.0	4.0	7.9	13.9	19.8	25.7	35.7	41.6	45.6	41.6	37.6
80°	2.0	2.0	5.9	11.9	17.8	23.8	29.7	35.7	37.6	33.7	29.7
82.5°	2.0	2.0	5.9	11.9	17.8	21.8	31.7	35.7	39.6	35.7	29.7
85°	0.0	2.0	5.9	11.9	15.8	17.8	17.8	11.9	9.9	5.9	5.9
87.5°	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)