

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: P528795

Luminaire Tested: **GALN-SA3D-830-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528795
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-SA3D-830-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 1200mA 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: 12607 lumens
Efficiency: N/A
Efficacy: 68.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G0

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

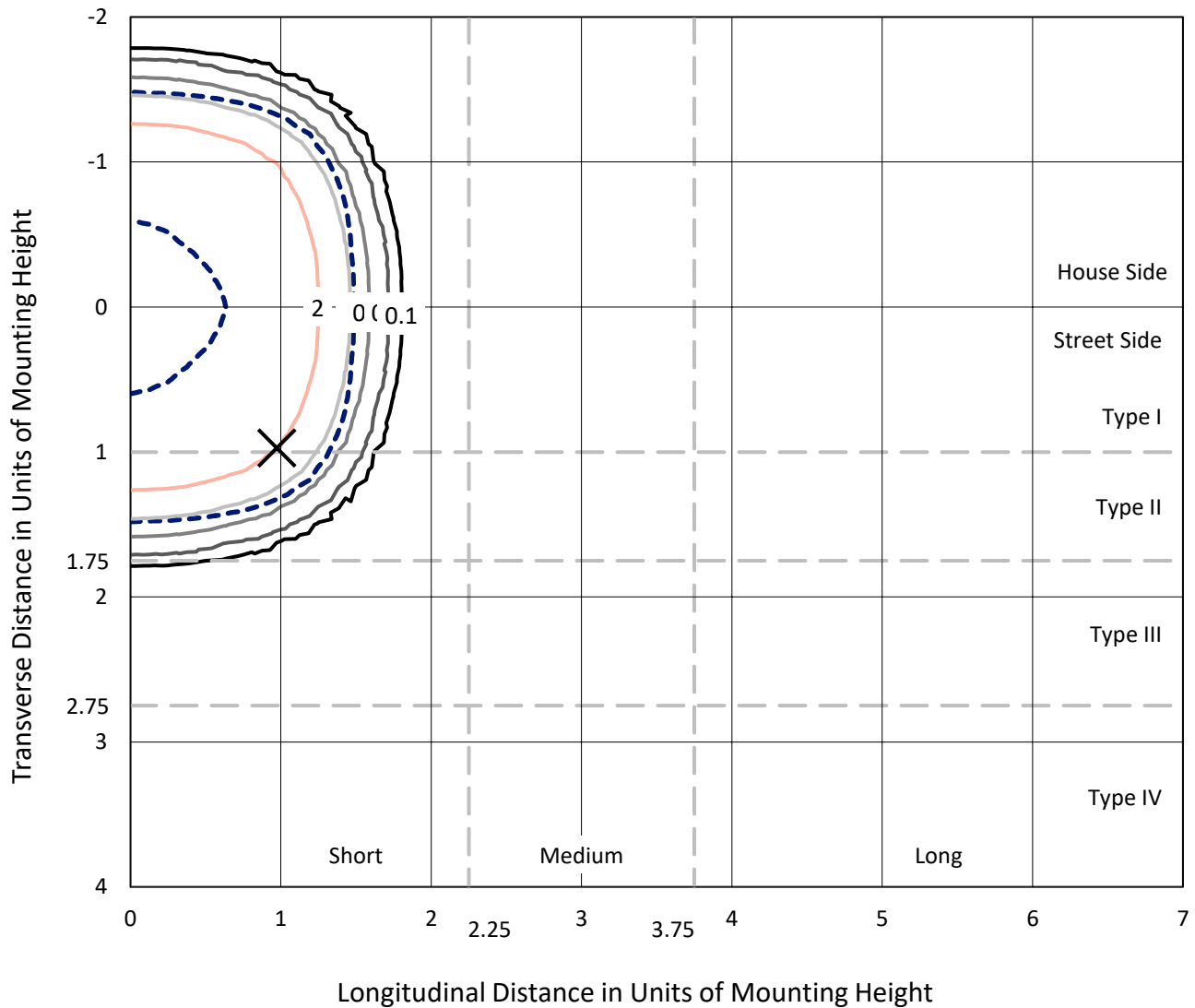


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Iso-Footcandle Lines of Horizontal Illumination

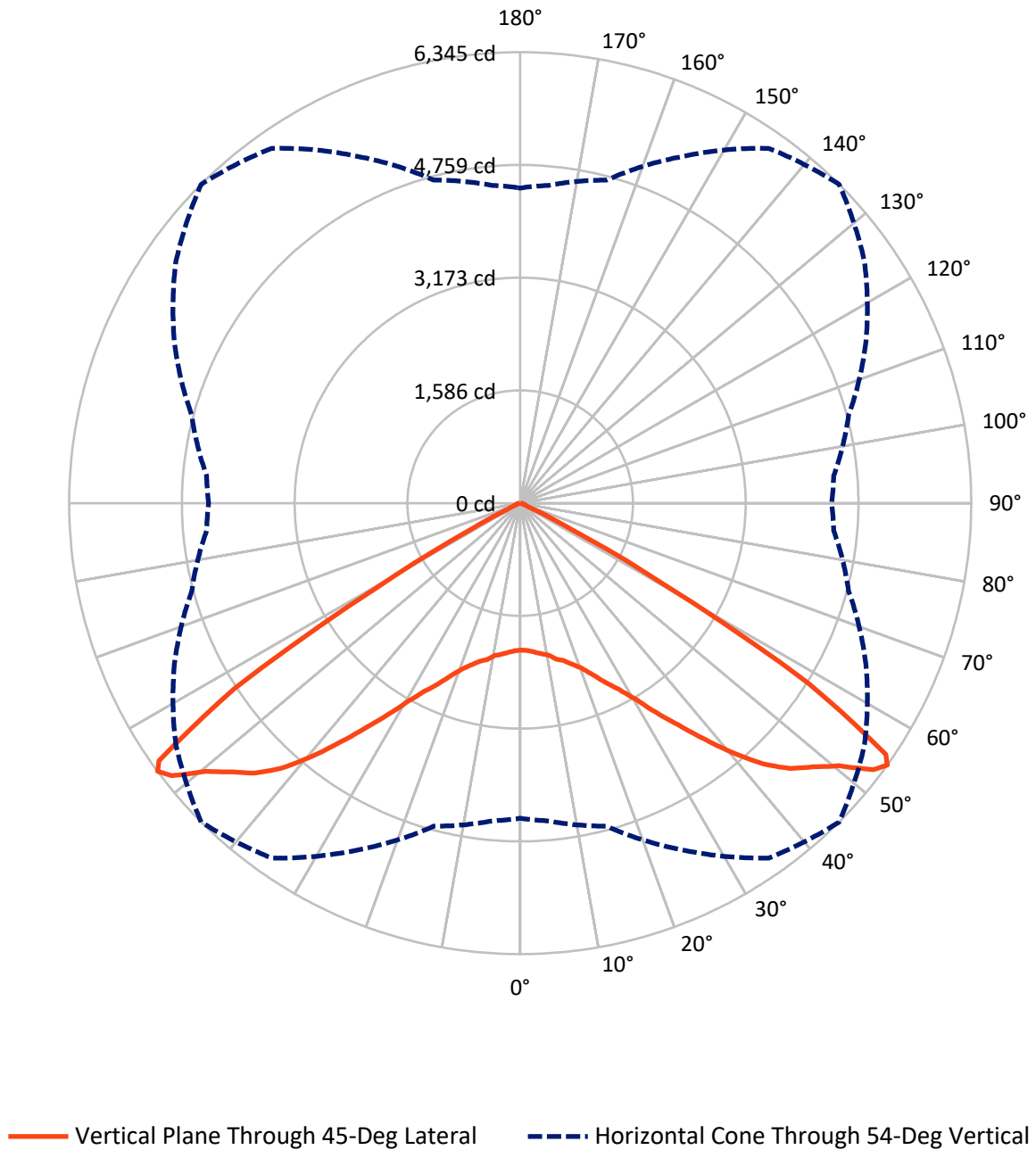
✕ Max cd
 - - - 1/2 Max cd



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



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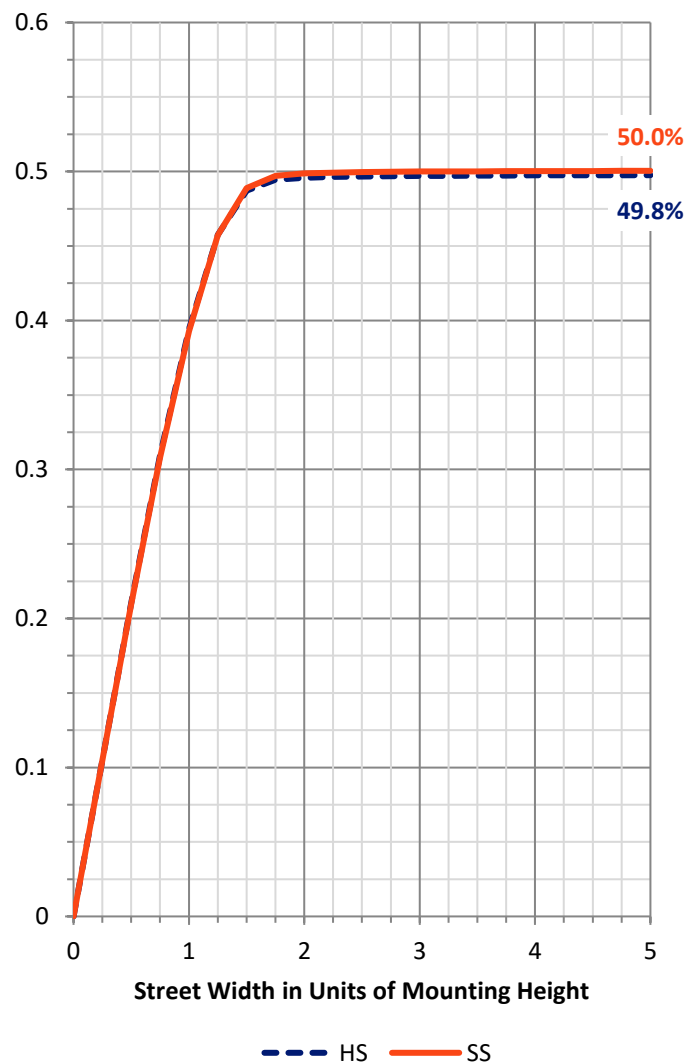
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6303.5	0.0	6303.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6303.5	0.0	6303.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	12607.0	0.0	12607.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.3	1.6
10°-20°	655.2	5.2
20°-30°	1284.2	10.2
30°-40°	2309.2	18.3
40°-50°	3952.9	31.4
50°-60°	3824.8	30.3
60°-70°	327.4	2.6
70°-80°	38.8	0.3
80°-90°	12.2	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°	12607.0	100.0
0°-180°	12607.0	100.0

Coefficient of Utilization



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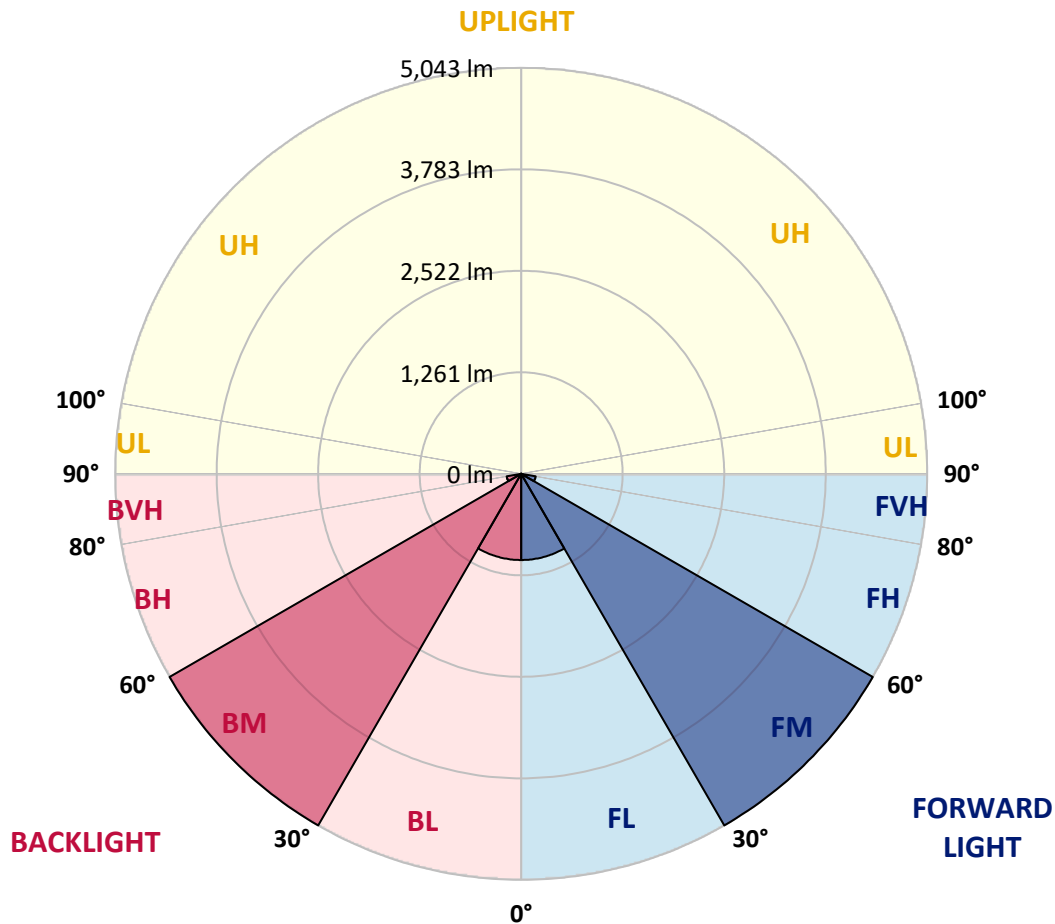
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1070.8	8.5			
FM	(30°-60°)	5043.5	40.0			
FH	(60°-80°)	183.1	1.5			G0/660
FVH	(80°-90°)	6.1	0.0			G0/10
BL	(0°-30°)	1070.8	8.5	B3/2500		
BM	(30°-60°)	5043.5	40.0	B4/8500		
BH	(60°-80°)	183.1	1.5	B1/500		G0/660
BVH	(80°-90°)	6.1	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°	2067.2	2067.2	2067.2	2067.2	2067.2	2067.2	2067.2	2067.2	2067.2	2067.2	2067.2
2.5°	2077.1	2089.1	2081.1	2087.1	2087.1	2077.1	2083.1	2059.2	2075.1	2063.2	2065.2
5°	2109.1	2107.1	2107.1	2109.1	2101.1	2105.1	2097.1	2089.1	2083.1	2075.1	2099.1
7.5°	2149.0	2149.0	2135.1	2139.1	2135.1	2141.1	2125.1	2109.1	2103.1	2097.1	2093.1
10°	2187.0	2183.0	2177.0	2195.0	2181.0	2173.0	2165.0	2155.0	2133.1	2125.1	2117.1
12.5°	2242.9	2240.9	2232.9	2250.9	2242.9	2250.9	2220.9	2195.0	2191.0	2165.0	2179.0
15°	2308.8	2326.8	2312.8	2312.8	2308.8	2298.8	2286.9	2274.9	2238.9	2228.9	2230.9
17.5°	2394.7	2388.7	2390.7	2390.7	2410.7	2384.7	2360.8	2330.8	2312.8	2306.8	2286.9
20°	2476.6	2484.6	2482.6	2496.6	2508.5	2480.6	2454.6	2450.6	2400.7	2408.7	2380.7
22.5°	2620.4	2614.4	2624.4	2634.4	2626.4	2622.4	2598.4	2568.5	2524.5	2504.6	2500.6
25°	2772.2	2762.2	2744.2	2768.2	2780.2	2798.1	2752.2	2736.2	2668.3	2638.4	2640.4
27.5°	2902.0	2916.0	2936.0	2945.9	2975.9	2969.9	2938.0	2886.0	2834.1	2800.1	2778.2
30°	3079.8	3087.8	3121.7	3135.7	3187.6	3201.6	3151.7	3091.7	2999.9	2955.9	2930.0
32.5°	3243.5	3299.5	3297.5	3367.4	3451.3	3509.2	3419.3	3327.4	3235.5	3183.6	3137.7
35°	3509.2	3499.2	3557.1	3631.0	3766.8	3832.7	3734.9	3629.0	3489.2	3405.3	3369.4
37.5°	3756.8	3760.8	3838.7	3956.6	4112.3	4214.2	4128.3	3954.6	3810.8	3702.9	3653.0
40°	4116.3	4124.3	4204.2	4338.0	4513.8	4623.6	4523.8	4348.0	4156.3	4072.4	4072.4
42.5°	4537.8	4571.7	4623.6	4739.5	4897.3	5019.1	4929.2	4791.4	4597.7	4489.8	4505.8
45°	4971.2	4987.1	5021.1	5192.9	5266.8	5326.7	5242.8	5178.9	5049.1	4917.2	4895.3
47.5°	5376.6	5382.6	5482.5	5536.4	5594.3	5544.4	5598.3	5514.4	5368.6	5240.8	5214.8
50°	5556.4	5546.4	5688.2	5851.9	5895.9	5808.0	5762.1	5706.1	5484.5	5330.7	5262.8
52.5°	5033.1	5091.0	5354.6	5810.0	6153.5	6227.4	5959.8	5702.2	5288.7	4989.1	4943.2
54°	4433.9	4487.8	4705.5	5380.6	6095.6	6345.3	5913.9	5366.6	4783.4	4427.9	4382.0
55°	3840.7	3780.8	4176.3	4865.3	5824.0	6241.4	5732.1	4933.2	4266.1	3940.6	3876.7
57.5°	2079.1	2089.1	2422.7	3073.8	4092.4	4785.4	4226.2	3337.4	2520.5	2155.0	2123.1
60°	659.1	675.1	820.9	1242.3	1955.3	2334.8	2001.2	1340.2	926.7	743.0	713.0
62.5°	205.7	213.7	233.7	347.5	535.3	764.9	599.2	359.5	267.6	245.7	249.7
65°	125.8	125.8	127.8	135.8	159.8	185.7	179.8	157.8	151.8	147.8	145.8
67.5°	81.9	79.9	83.9	89.9	93.9	95.9	101.9	107.9	105.9	101.9	101.9
70°	49.9	47.9	51.9	59.9	61.9	65.9	71.9	79.9	77.9	73.9	75.9
72.5°	28.0	28.0	30.0	36.0	41.9	45.9	51.9	57.9	59.9	57.9	57.9
75°	10.0	12.0	16.0	22.0	26.0	32.0	37.9	43.9	49.9	45.9	43.9
77.5°	4.0	4.0	8.0	14.0	20.0	26.0	36.0	41.9	45.9	41.9	37.9
80°	2.0	2.0	6.0	12.0	18.0	24.0	30.0	36.0	37.9	34.0	30.0
82.5°	2.0	2.0	6.0	12.0	18.0	22.0	32.0	36.0	39.9	36.0	30.0
85°	0.0	2.0	6.0	12.0	16.0	18.0	18.0	12.0	10.0	6.0	6.0
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)