

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: P651247

Luminaire Tested: **GALN-SA2D-840-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651247
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-840-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13059.9 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

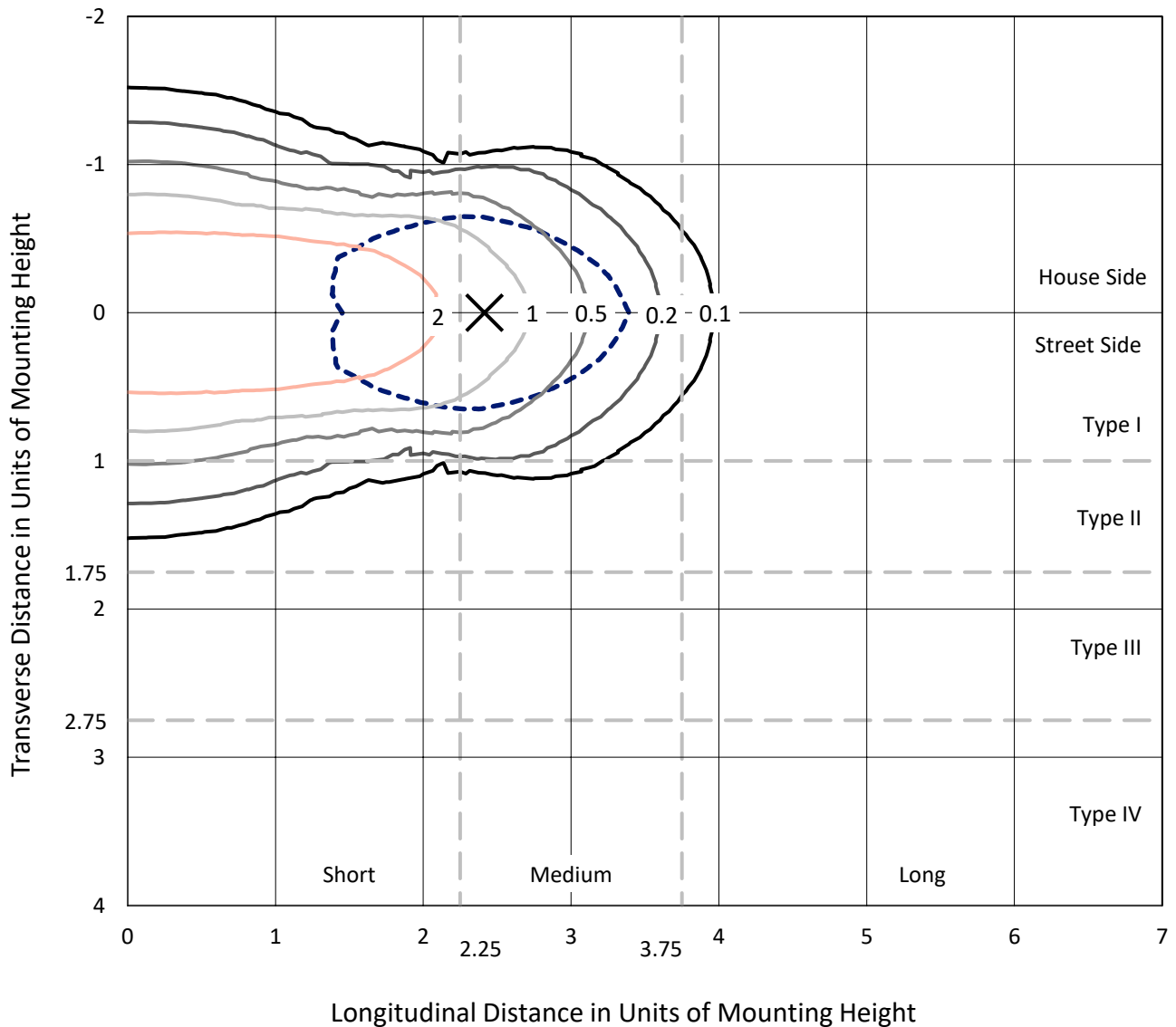
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

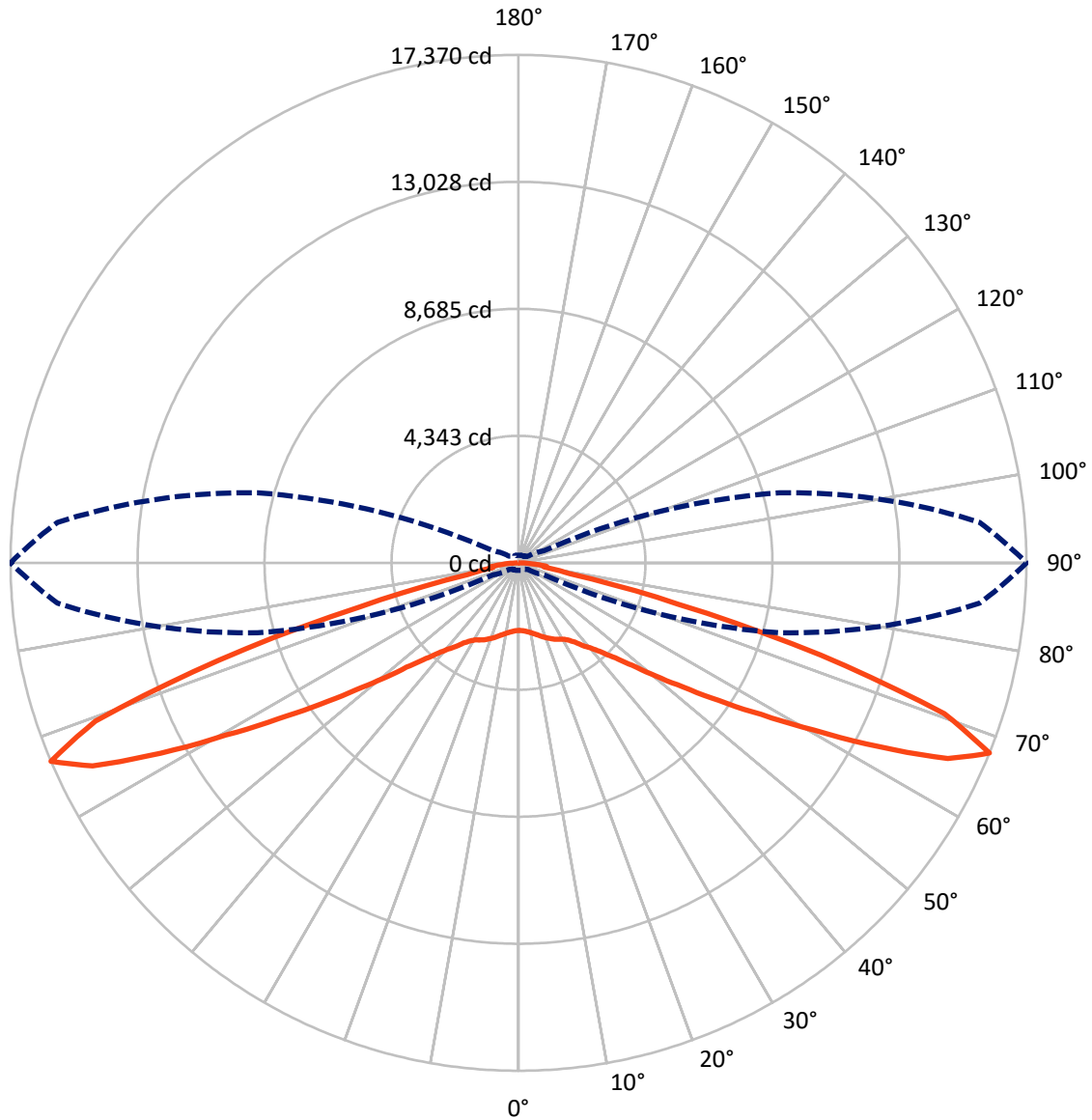
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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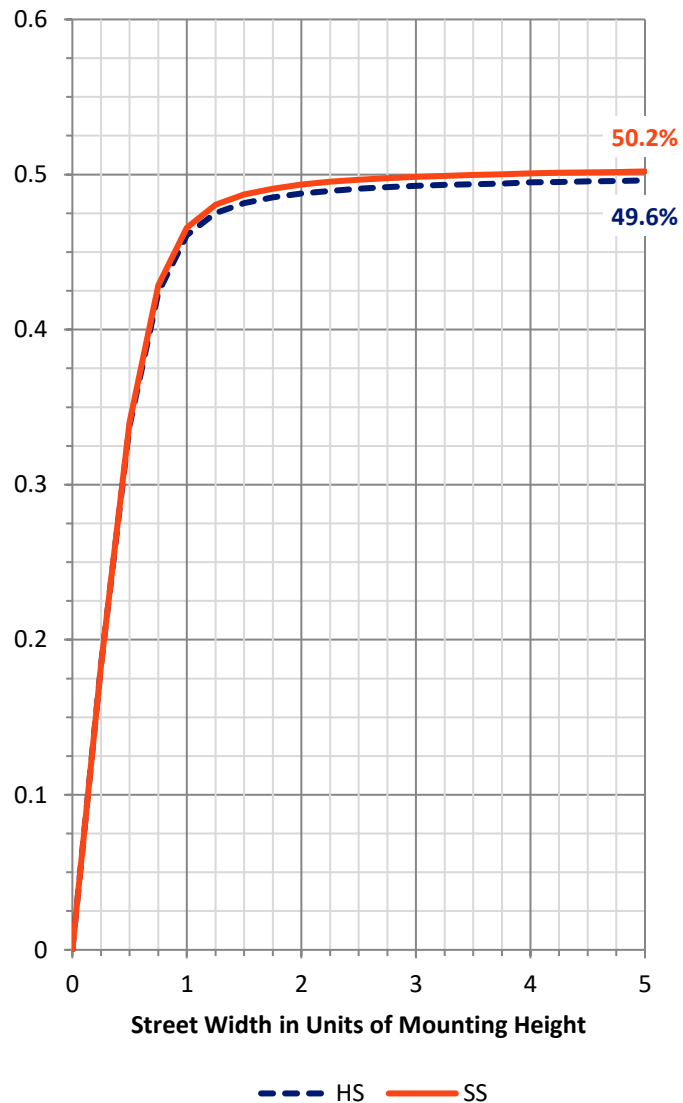
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6529.9	0.0	6529.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6529.9	0.0	6529.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	13059.9	0.0	13059.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.5	1.8
10°-20°	737.5	5.6
20°-30°	1234.4	9.5
30°-40°	1672.3	12.8
40°-50°	2118.2	16.2
50°-60°	2646.2	20.3
60°-70°	3110.4	23.8
70°-80°	1189.9	9.1
80°-90°	120.5	0.9
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°	13059.9	100.0
0°-180°	13059.9	100.0

Coefficient of Utilization



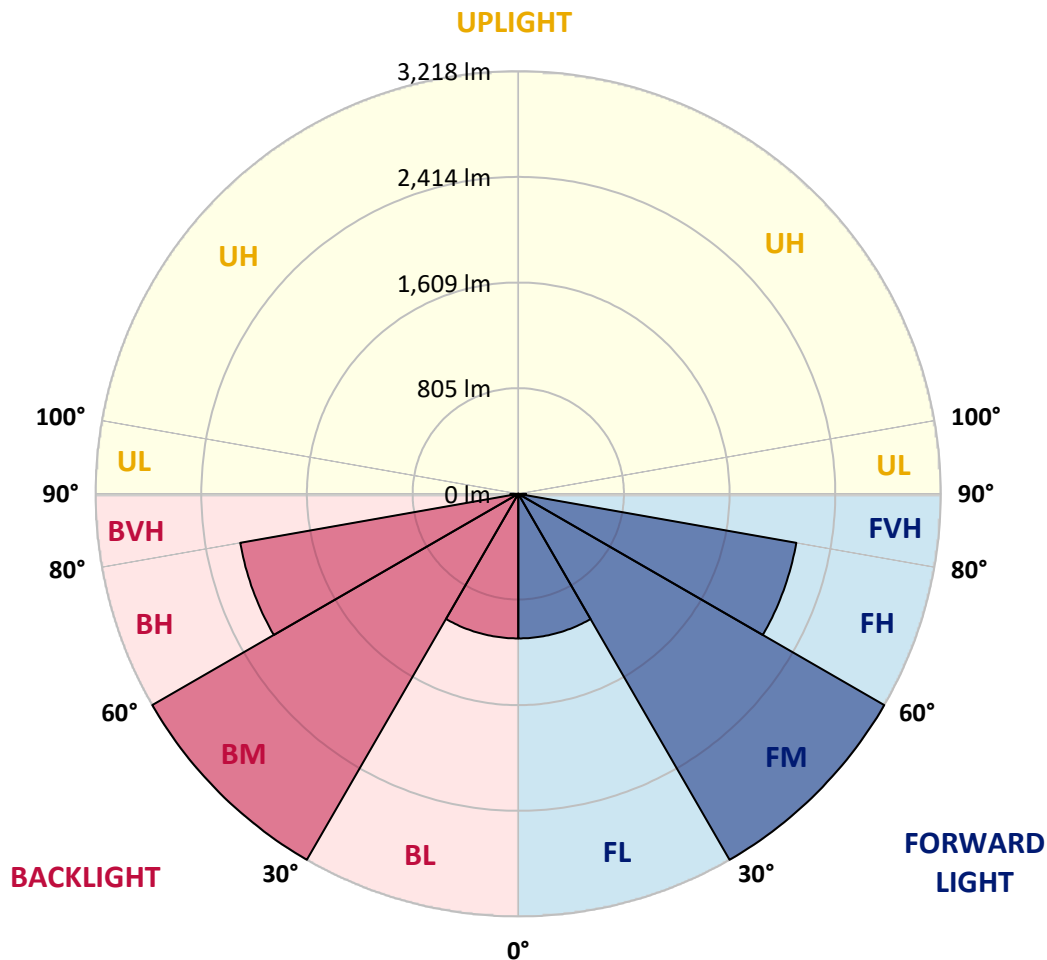
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1101.2	8.4			
FM (30°-60°)	3218.3	24.6			
FH (60°-80°)	2150.2	16.5			G2/5000
FVH (80°-90°)	60.3	0.5			G1/100
BL (0°-30°)	1101.2	8.4	B3/2500		
BM (30°-60°)	3218.3	24.6	B3/5000		
BH (60°-80°)	2150.2	16.5	B3/2500		G3/2500
BVH (80°-90°)	60.3	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2312.0	2312.0	2312.0	2312.0	2312.0	2312.0	2312.0	2312.0	2312.0	2312.0	2312.0
2.5°	2341.7	2340.3	2340.9	2340.3	2342.4	2340.9	2332.3	2325.0	2319.2	2320.0	2317.8
5°	2391.6	2392.3	2393.0	2389.4	2394.4	2391.6	2377.8	2366.2	2354.7	2350.3	2348.9
7.5°	2432.8	2436.4	2438.6	2442.2	2450.8	2450.8	2443.6	2427.0	2401.6	2387.2	2386.5
10°	2474.0	2476.9	2483.4	2495.0	2509.5	2523.2	2520.3	2497.9	2465.3	2440.8	2434.9
12.5°	2488.4	2492.1	2513.7	2547.1	2579.6	2606.3	2606.3	2588.3	2546.3	2508.7	2497.9
15°	2437.8	2444.4	2483.4	2554.3	2639.6	2698.2	2711.2	2685.9	2641.1	2583.2	2570.2
17.5°	2337.3	2353.2	2410.4	2515.2	2657.0	2778.5	2816.1	2803.8	2745.9	2672.1	2657.0
20°	2229.6	2246.9	2307.7	2446.6	2642.5	2825.4	2934.7	2937.5	2866.0	2758.9	2736.5
22.5°	2111.0	2123.9	2202.1	2364.8	2599.1	2836.3	3036.6	3086.6	2989.6	2845.7	2813.9
25°	1977.9	1992.3	2074.1	2249.8	2517.4	2824.0	3129.9	3239.9	3119.1	2938.3	2897.7
27.5°	1850.6	1856.4	1943.9	2122.5	2409.6	2792.2	3198.7	3380.9	3262.2	3014.9	2963.6
30°	1728.4	1742.1	1819.5	1995.9	2286.0	2730.0	3257.9	3541.5	3416.3	3095.2	3029.4
32.5°	1599.0	1615.6	1699.5	1878.1	2162.3	2636.7	3294.1	3717.1	3631.1	3225.4	3155.3
35°	1474.5	1485.4	1570.1	1743.6	2041.5	2528.2	3300.6	3915.3	3908.0	3422.8	3329.5
37.5°	1347.3	1363.2	1448.5	1614.9	1913.5	2413.2	3268.0	4125.8	4242.2	3696.9	3596.4
40°	1225.1	1238.8	1322.7	1490.5	1768.2	2273.0	3190.7	4318.1	4632.0	3978.9	3836.5
42.5°	1092.0	1095.7	1187.5	1358.1	1625.7	2110.2	3079.3	4489.5	5066.6	4357.1	4180.0
45°	940.8	950.2	1035.6	1203.4	1462.2	1928.0	2928.2	4631.2	5617.6	4881.5	4640.0
47.5°	789.7	797.7	875.7	1041.4	1283.6	1719.0	2695.3	4755.6	6183.2	5547.5	5230.8
50°	642.2	646.6	710.1	857.0	1082.6	1499.2	2406.8	4795.4	6822.4	6490.5	6086.3
52.5°	507.7	514.2	562.6	677.6	867.8	1239.5	2095.0	4697.1	7568.8	7608.6	7038.7
55°	411.5	413.7	449.9	534.5	678.4	967.7	1719.0	4423.0	8371.6	9041.2	8314.4
57.5°	354.4	355.8	376.1	423.0	522.2	729.7	1333.6	3904.4	9092.6	10719.7	9785.4
60°	321.9	322.5	334.1	361.6	413.7	559.8	955.3	3172.6	9804.1	12587.7	11613.5
62.5°	301.6	301.6	309.5	324.7	350.0	429.6	692.1	2288.9	10291.6	14483.1	13867.0
65°	282.1	282.1	287.8	298.6	312.4	351.5	511.3	1492.6	10279.3	15863.7	16133.4
67.5°	259.6	259.6	264.0	274.8	282.7	302.3	394.8	977.7	9233.6	15833.3	17370.1
70°	232.9	232.9	238.7	248.0	254.6	266.8	311.7	668.9	6783.4	13519.2	15447.8
72.5°	206.1	206.8	210.4	219.8	224.9	232.1	258.9	468.6	4161.2	9205.3	10801.4
75°	176.4	177.9	181.5	190.9	195.3	198.1	218.4	334.1	2105.2	4963.2	5650.9
77.5°	142.5	145.3	147.5	157.7	160.5	164.9	180.1	241.5	924.3	1783.3	1799.2
80°	104.1	107.7	114.3	123.6	125.8	128.8	137.4	171.4	418.7	814.3	884.5
82.5°	76.6	81.7	73.8	86.0	86.0	82.4	96.9	115.0	192.3	806.4	964.7
85°	42.0	42.6	38.3	44.2	47.0	46.3	51.4	56.4	93.3	538.1	554.6
87.5°	10.1	10.8	11.6	13.7	16.7	16.7	18.1	15.9	30.4	174.3	99.8
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)