

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: P651227

Luminaire Tested: **GALN-SA2D-840-U-RW-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651227
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-8)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-840-U-RW-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11463.7 lumens
Efficiency: N/A
Efficacy: 91.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

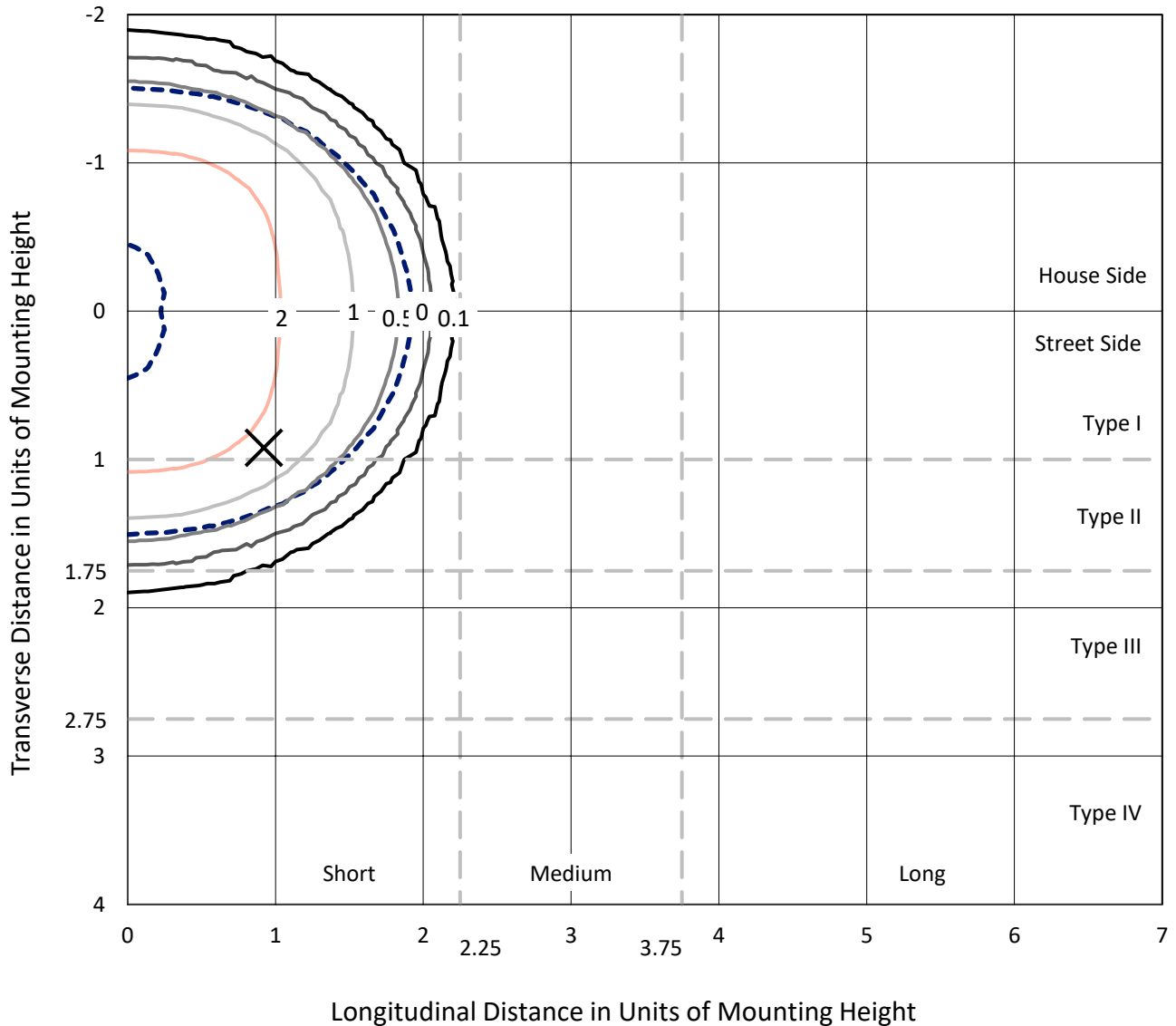
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

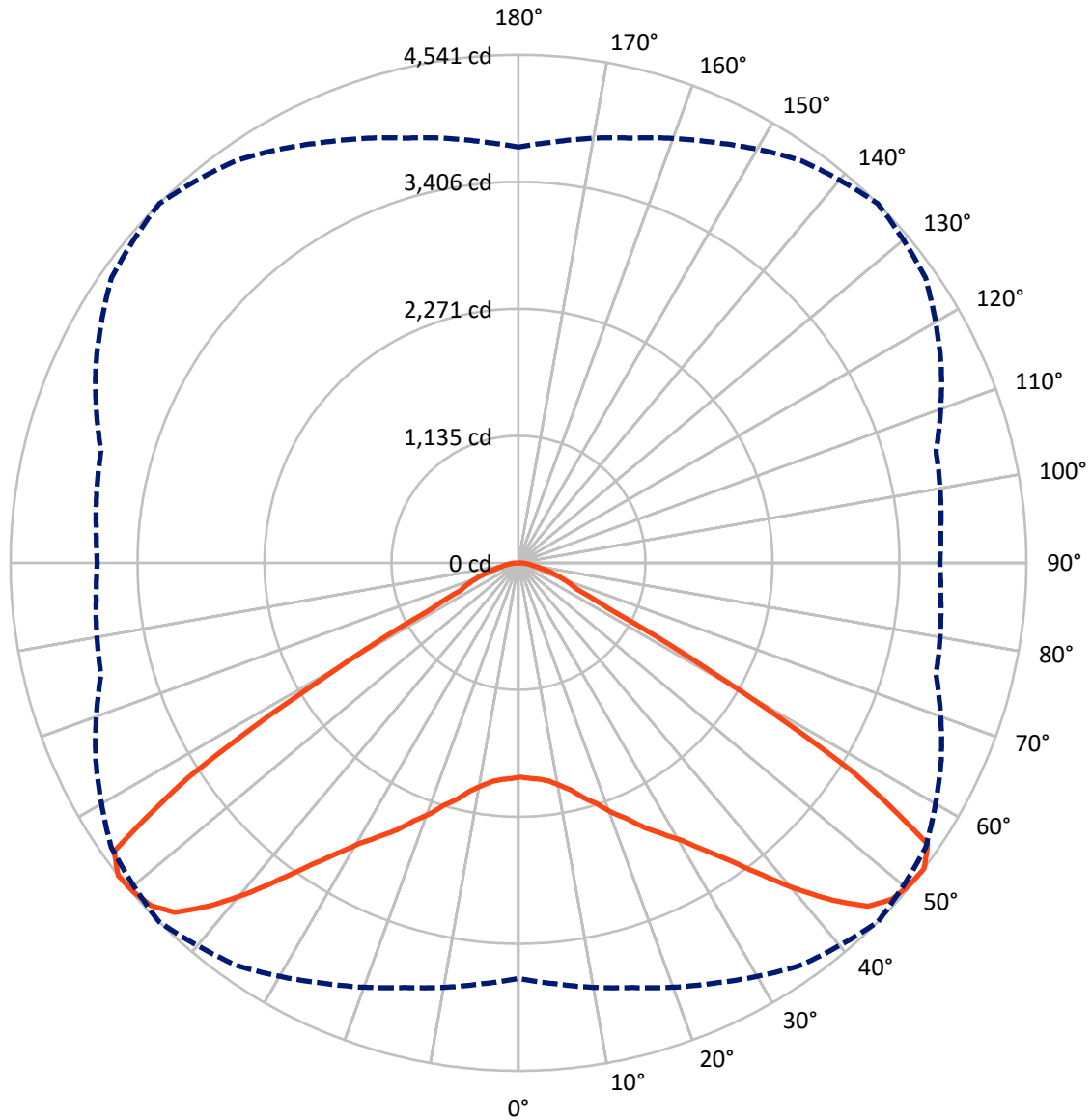
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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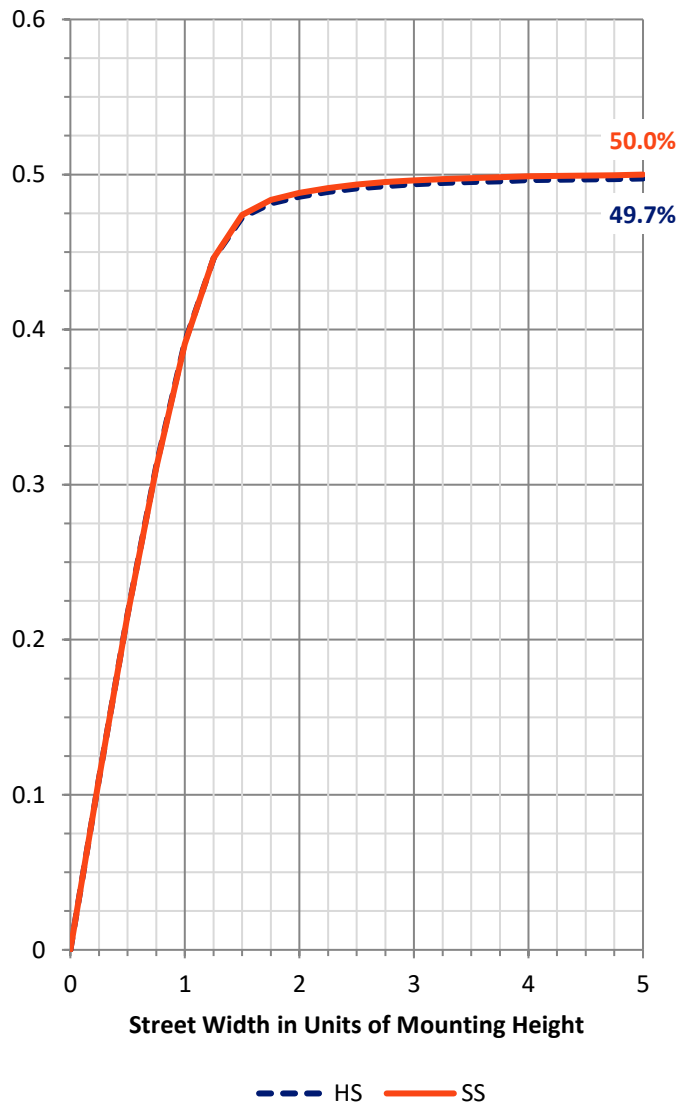
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5731.8	0.0	5731.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5731.8	0.0	5731.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	11463.7	0.0	11463.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.3	1.6
10°-20°	618.6	5.4
20°-30°	1177.8	10.3
30°-40°	2022.4	17.6
40°-50°	3108.5	27.1
50°-60°	3156.6	27.5
60°-70°	879.7	7.7
70°-80°	259.5	2.3
80°-90°	52.3	0.5
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°	11463.7	100.0
0°-180°	11463.7	100.0

Coefficient of Utilization



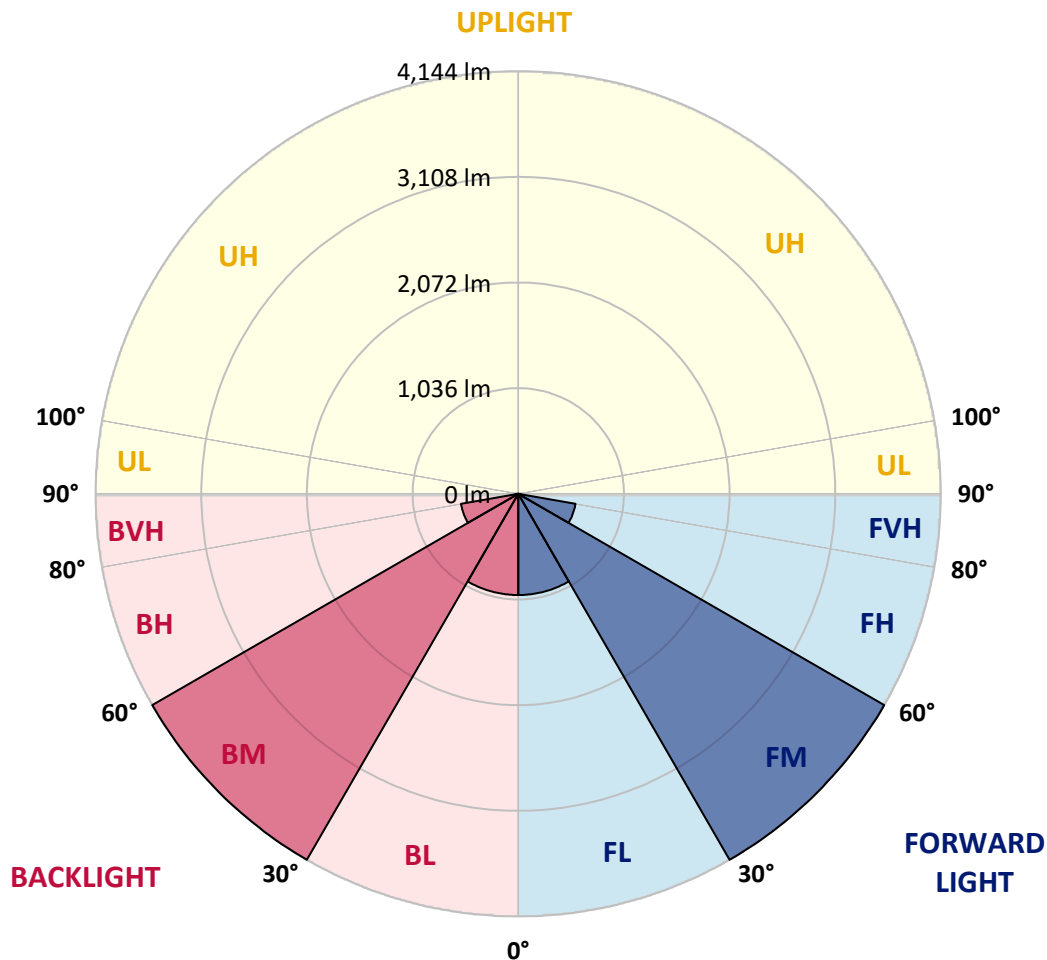
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	992.4	8.7			
FM (30°-60°)	4143.7	36.1			
FH (60°-80°)	569.6	5.0			G0/660
FVH (80°-90°)	26.1	0.2			G1/100
BL (0°-30°)	992.4	8.7	B2/1000		
BM (30°-60°)	4143.7	36.1	B3/5000		
BH (60°-80°)	569.6	5.0	B2/1000		G0/660
BVH (80°-90°)	26.1	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1916.3	1916.3	1916.3	1916.3	1916.3	1916.3	1916.3	1916.3	1916.3	1916.3	1916.3
2.5°	1920.6	1900.7	1907.8	1912.0	1930.5	1929.1	1924.9	1930.5	1936.2	1937.7	1934.8
5°	1919.2	1904.9	1910.6	1914.9	1933.4	1943.3	1940.5	1964.7	1981.7	1977.4	1998.8
7.5°	1907.8	1916.3	1909.2	1930.5	1946.2	1970.4	1995.9	2018.7	2040.1	2064.2	2068.5
10°	1933.4	1933.4	1946.2	1963.2	2004.5	2023.0	2060.0	2092.7	2134.0	2162.5	2151.0
12.5°	1960.4	1964.7	1964.7	2008.8	2043.0	2084.2	2118.3	2162.5	2220.7	2254.9	2272.0
15°	1987.5	1990.3	2004.5	2064.2	2115.5	2180.9	2212.3	2252.0	2284.7	2348.8	2350.2
17.5°	2011.6	2027.2	2070.0	2136.8	2200.8	2263.5	2313.3	2354.5	2382.9	2408.5	2402.8
20°	2102.7	2114.0	2158.2	2225.0	2320.3	2381.5	2398.6	2405.7	2424.2	2475.4	2459.8
22.5°	2190.9	2195.2	2236.4	2338.8	2405.7	2486.8	2505.3	2501.0	2508.1	2520.9	2543.7
25°	2281.9	2289.0	2346.0	2432.8	2526.6	2623.3	2639.0	2606.3	2596.3	2610.5	2612.0
27.5°	2398.6	2400.0	2472.5	2548.0	2654.6	2745.7	2769.9	2744.3	2697.3	2708.7	2727.2
30°	2546.5	2536.5	2609.1	2717.3	2829.6	2880.8	2922.1	2909.3	2858.1	2848.1	2832.5
32.5°	2717.3	2720.1	2785.6	2903.6	2977.6	3062.9	3107.1	3085.7	3053.0	3035.9	3045.8
35°	2957.7	2970.5	3014.6	3112.7	3232.2	3274.9	3344.7	3299.1	3213.8	3235.1	3253.6
37.5°	3155.4	3192.4	3274.9	3391.6	3462.7	3540.9	3566.6	3505.4	3442.8	3417.2	3478.4
40°	3458.4	3447.1	3538.1	3654.8	3760.0	3838.3	3805.6	3744.4	3589.3	3590.7	3607.8
42.5°	3718.8	3724.5	3794.2	3933.6	4077.3	4125.7	4021.8	3872.5	3700.3	3681.8	3718.8
45°	3937.9	3960.6	4000.5	4186.8	4327.7	4380.3	4188.3	4011.8	3781.4	3704.6	3765.7
47.5°	4016.1	4053.1	4139.9	4310.6	4450.1	4492.7	4339.1	4085.8	3856.8	3731.6	3764.3
50°	4027.5	4014.7	4157.0	4313.5	4435.8	4528.3	4393.1	4139.9	3838.3	3772.9	3762.9
52.5°	3716.0	3778.5	3930.7	4145.6	4393.1	4541.1	4441.5	4169.8	3863.9	3790.0	3765.7
55°	3007.5	2933.5	3210.9	3572.2	4027.5	4438.6	4424.4	4185.4	3879.5	3818.4	3785.7
57.5°	1678.7	1700.1	1856.6	2249.2	2836.8	3519.6	3933.6	4020.4	3872.5	3836.9	3854.0
60°	776.7	783.9	850.8	1034.3	1398.5	1995.9	2540.8	3094.3	3348.9	3400.2	3400.2
62.5°	579.0	576.2	593.2	626.0	702.8	917.6	1224.9	1664.5	2014.4	2259.2	2323.2
65°	523.5	522.1	530.7	542.0	547.7	577.6	645.9	781.0	894.8	960.3	948.9
67.5°	458.1	456.7	459.5	466.6	476.6	492.2	509.3	537.7	577.6	574.7	567.7
70°	369.9	369.9	374.2	379.9	391.2	409.7	429.7	449.5	483.7	490.8	489.4
72.5°	273.2	268.9	277.4	288.8	300.2	322.9	344.3	362.8	386.9	394.1	391.2
75°	173.6	176.4	182.1	194.9	214.8	230.4	253.2	268.9	284.5	290.2	291.7
77.5°	96.7	99.6	109.6	125.2	145.1	162.1	182.1	194.9	204.9	206.3	207.7
80°	58.4	59.7	69.7	83.9	101.0	119.5	135.1	147.9	156.5	152.2	150.8
82.5°	35.6	37.0	45.5	58.4	72.6	86.8	103.9	115.2	123.8	118.1	112.4
85°	18.5	19.9	27.0	35.6	46.9	54.1	54.1	48.4	46.9	44.1	42.6
87.5°	5.7	5.7	7.1	8.5	7.1	8.5	9.9	11.4	11.4	12.8	11.4
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)