

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: P451877

Luminaire Tested: **GALN-SA2D-740-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451877
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-740-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16050 lumens
Efficiency: N/A
Efficacy: 128.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 125
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

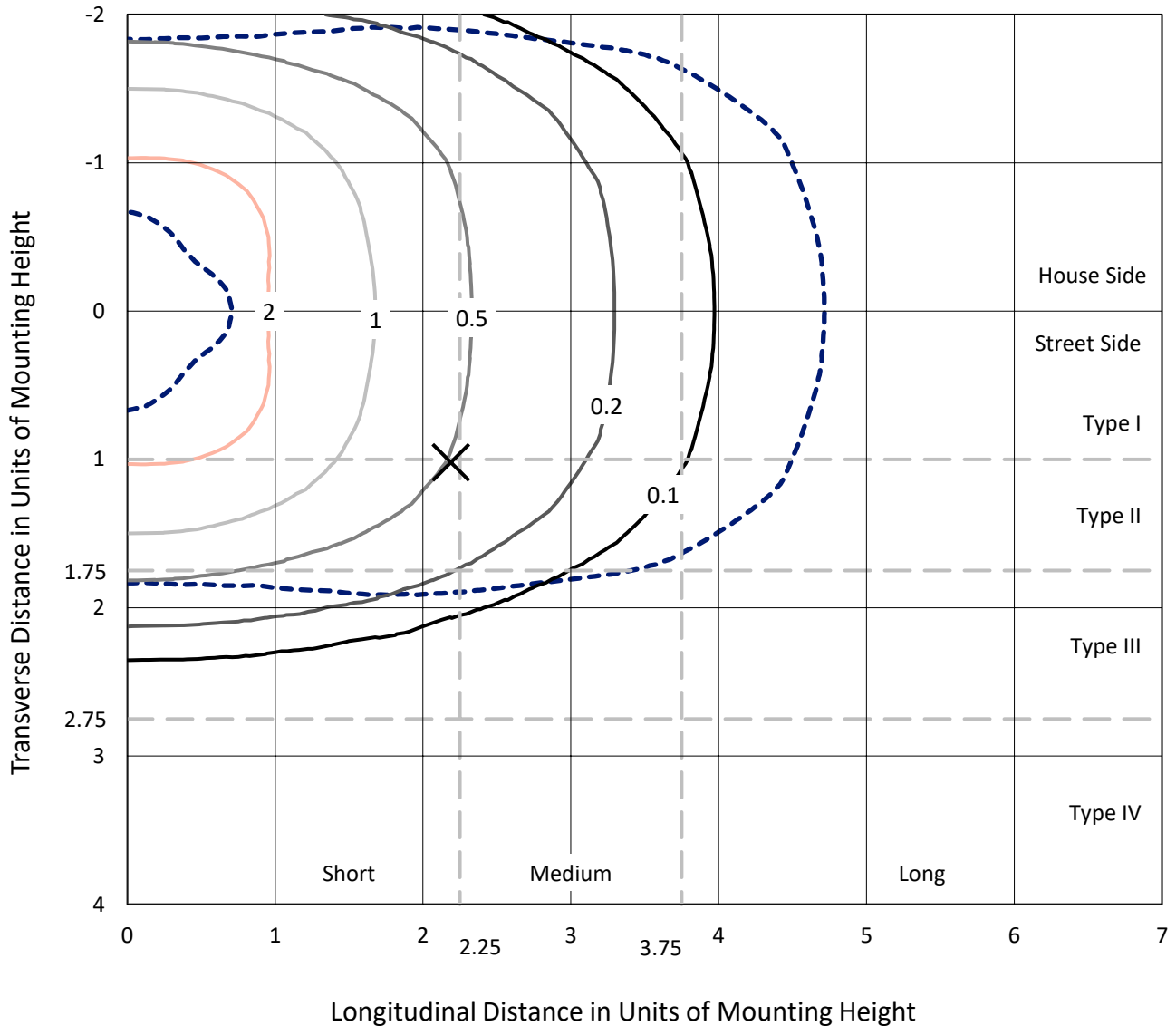




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Iso-Footcandle Lines of Horizontal Illumination

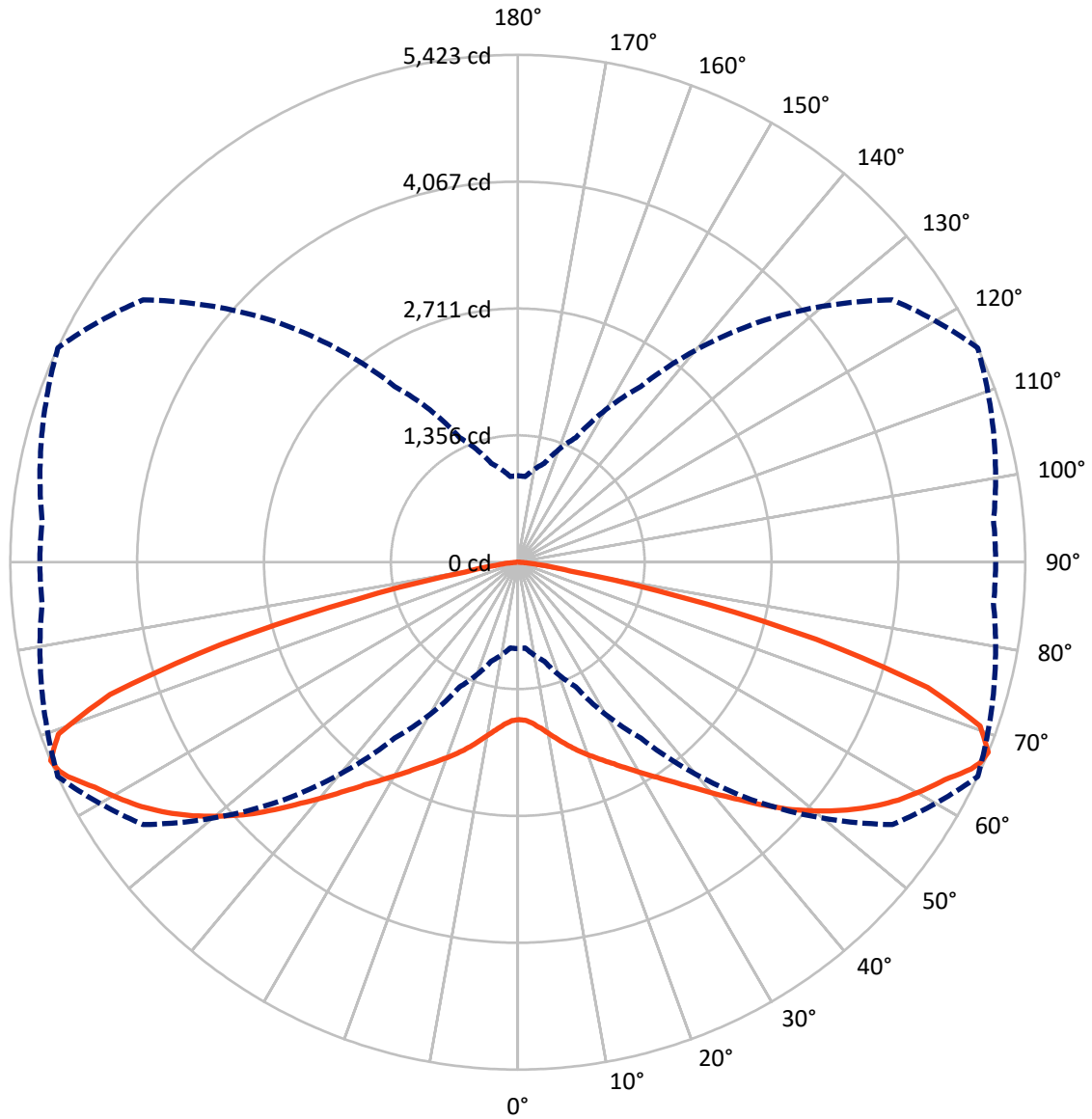
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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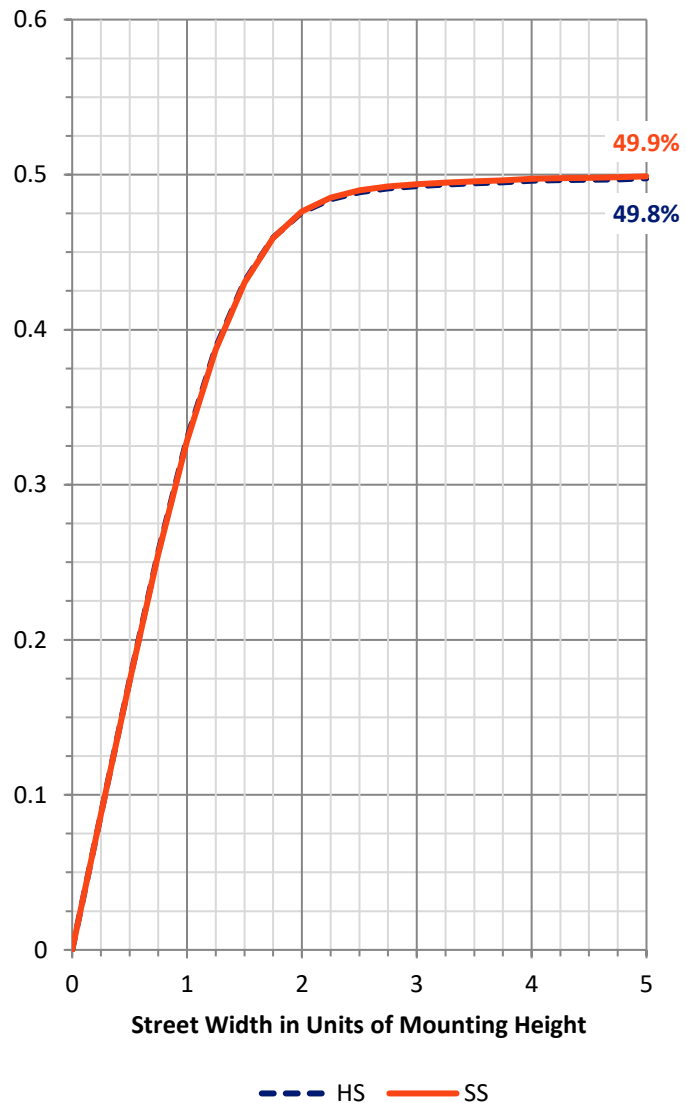
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8025.0	0.0	8025.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8025.0	0.0	8025.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	16050.0	0.0	16050.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.8	1.0
10°-20°	554.9	3.5
20°-30°	1085.5	6.8
30°-40°	1846.2	11.5
40°-50°	2922.0	18.2
50°-60°	3874.6	24.1
60°-70°	3654.9	22.8
70°-80°	1806.8	11.3
80°-90°	139.2	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°	16050.0	100.0
0°-180°	16050.0	100.0



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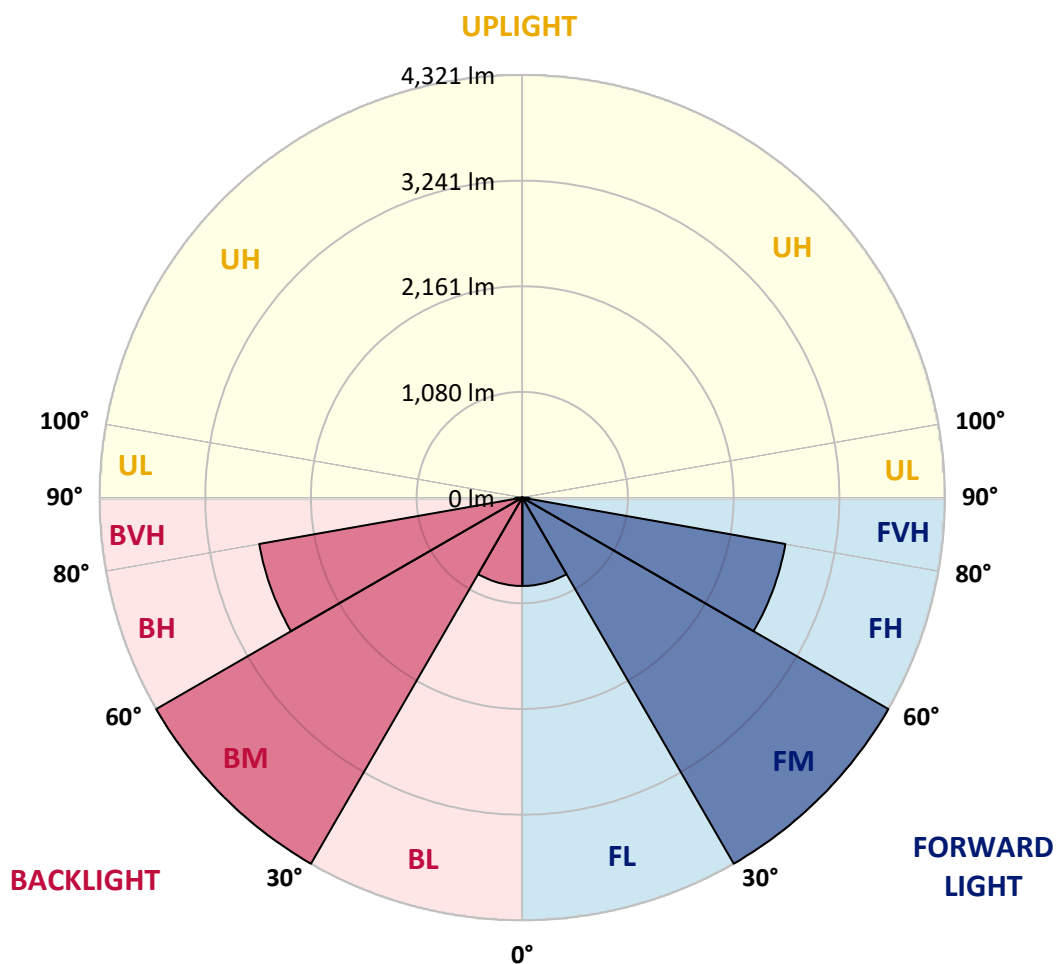
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	903.1	5.6			
FM	(30°-60°)	4321.4	26.9			
FH	(60°-80°)	2730.9	17.0			G2/5000
FVH	(80°-90°)	69.6	0.4			G1/100
BL	(0°-30°)	903.1	5.6	B2/1000		
BM	(30°-60°)	4321.4	26.9	B3/5000		
BH	(60°-80°)	2730.9	17.0	B4/5000		G4/5000
BVH	(80°-90°)	69.6	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1681.1	1681.1	1681.1	1681.1	1681.1	1681.1	1681.1	1681.1	1681.1	1681.1	1681.1
2.5°	1672.5	1674.2	1675.9	1678.5	1682.0	1687.1	1690.6	1693.1	1700.0	1700.9	1700.0
5°	1666.5	1668.2	1672.5	1680.2	1691.4	1706.9	1718.9	1733.5	1744.7	1752.5	1750.7
7.5°	1665.6	1669.1	1675.9	1692.3	1713.8	1740.4	1767.9	1792.9	1814.4	1831.6	1829.0
10°	1679.4	1683.7	1694.9	1718.9	1752.5	1791.2	1829.9	1866.8	1897.8	1920.1	1927.9
12.5°	1702.6	1706.0	1726.7	1762.8	1810.9	1859.1	1902.9	1948.5	1991.5	2029.4	2029.4
15°	1743.0	1749.0	1774.8	1827.3	1886.6	1942.5	1987.2	2035.4	2081.8	2124.8	2137.7
17.5°	1798.9	1807.5	1846.2	1913.3	1988.9	2040.5	2082.7	2122.2	2162.6	2203.9	2209.9
20°	1875.4	1884.0	1935.6	2016.5	2105.9	2167.8	2196.2	2205.6	2225.4	2265.0	2270.1
22.5°	1979.5	1988.1	2045.7	2136.8	2236.6	2303.7	2315.7	2293.3	2288.2	2319.1	2322.6
25°	2097.3	2105.0	2171.2	2269.3	2372.5	2445.5	2442.1	2387.1	2356.1	2375.0	2380.2
27.5°	2229.7	2240.9	2308.0	2409.4	2521.2	2585.7	2575.4	2495.4	2429.2	2425.8	2427.5
30°	2399.1	2411.1	2474.8	2571.9	2682.0	2741.3	2719.8	2612.4	2510.0	2475.6	2475.6
32.5°	2578.0	2608.1	2672.6	2774.0	2860.0	2903.0	2870.3	2741.3	2605.5	2557.3	2554.7
35°	2811.0	2827.3	2891.0	2989.9	3054.3	3087.9	3025.1	2886.7	2730.2	2673.4	2665.7
37.5°	3038.9	3052.6	3126.6	3221.2	3299.4	3297.7	3212.6	3059.5	2884.9	2821.3	2816.2
40°	3271.9	3286.5	3370.8	3457.6	3535.9	3529.0	3425.8	3254.7	3069.0	2997.6	3011.4
42.5°	3474.0	3490.3	3585.8	3709.6	3780.1	3778.4	3658.9	3466.2	3272.8	3209.1	3221.2
45°	3658.0	3672.6	3783.5	3925.4	4028.6	4041.5	3910.8	3707.0	3508.4	3426.7	3430.1
47.5°	3787.8	3815.4	3931.4	4094.0	4234.1	4279.7	4151.6	3952.1	3723.3	3638.2	3643.4
50°	3886.7	3903.9	4030.3	4215.2	4392.3	4486.9	4383.7	4179.1	3938.3	3848.0	3860.1
52.5°	3898.8	3919.4	4057.0	4270.2	4497.3	4640.9	4590.1	4400.9	4157.6	4064.7	4090.5
55°	3800.7	3812.8	3977.0	4235.8	4538.5	4755.2	4768.1	4607.3	4366.5	4296.0	4313.2
57.5°	3521.3	3552.2	3760.3	4075.0	4481.8	4816.3	4901.4	4794.8	4578.1	4508.4	4535.9
60°	3062.9	3093.9	3302.9	3701.9	4267.7	4787.9	5011.5	4960.7	4769.8	4713.9	4728.6
62.5°	2400.0	2397.4	2656.2	3145.5	3842.0	4648.6	5093.2	5120.7	4959.0	4888.5	4910.9
65°	1555.6	1563.3	1813.5	2340.6	3199.7	4294.3	5111.2	5324.5	5144.8	5038.1	5054.5
66°	1251.1	1274.4	1486.8	1972.6	2872.1	4062.1	5057.0	5384.7	5201.5	5072.5	5080.3
67.5°	923.5	919.2	1093.8	1468.7	2293.3	3621.0	4887.6	5422.5	5266.0	5103.5	5106.9
70°	527.1	526.3	588.2	806.6	1348.3	2549.6	4119.8	5241.1	5396.7	5215.3	5205.8
72.5°	385.2	382.7	391.3	445.4	657.8	1287.3	2842.0	4580.7	5329.6	5197.2	5170.6
75°	323.3	321.6	319.9	326.8	368.9	583.0	1508.3	3295.1	4624.5	4878.2	4850.7
77.5°	264.0	264.0	264.8	263.1	264.8	307.0	625.1	1766.2	2816.2	3143.8	3220.3
80°	206.4	205.5	220.1	214.1	200.4	196.9	276.9	568.4	934.7	929.5	767.0
82.5°	152.2	141.9	167.7	163.4	147.9	125.5	161.7	242.5	312.1	202.9	150.5
85°	96.3	95.4	118.7	108.3	90.3	59.3	77.4	104.0	129.0	78.3	63.6
87.5°	17.2	16.3	37.8	27.5	27.5	17.2	21.5	28.4	42.1	29.2	21.5
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)