

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: P534210

Luminaire Tested: **GALN-SA9D-722-U-RW-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534210
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-SA9D-722-U-RW-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2200K, 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: 45173 lumens
Efficiency: N/A
Efficacy: 81.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

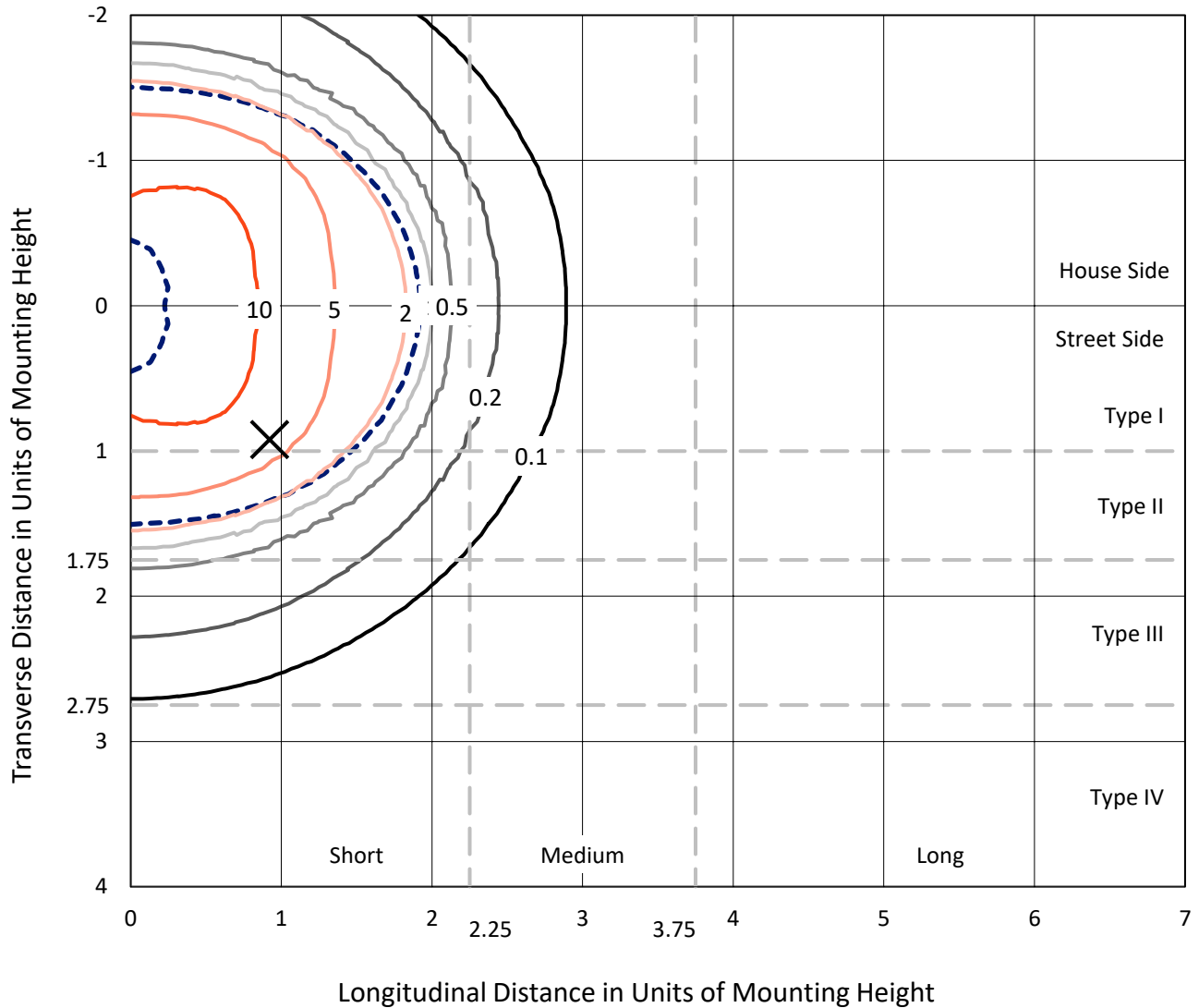
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

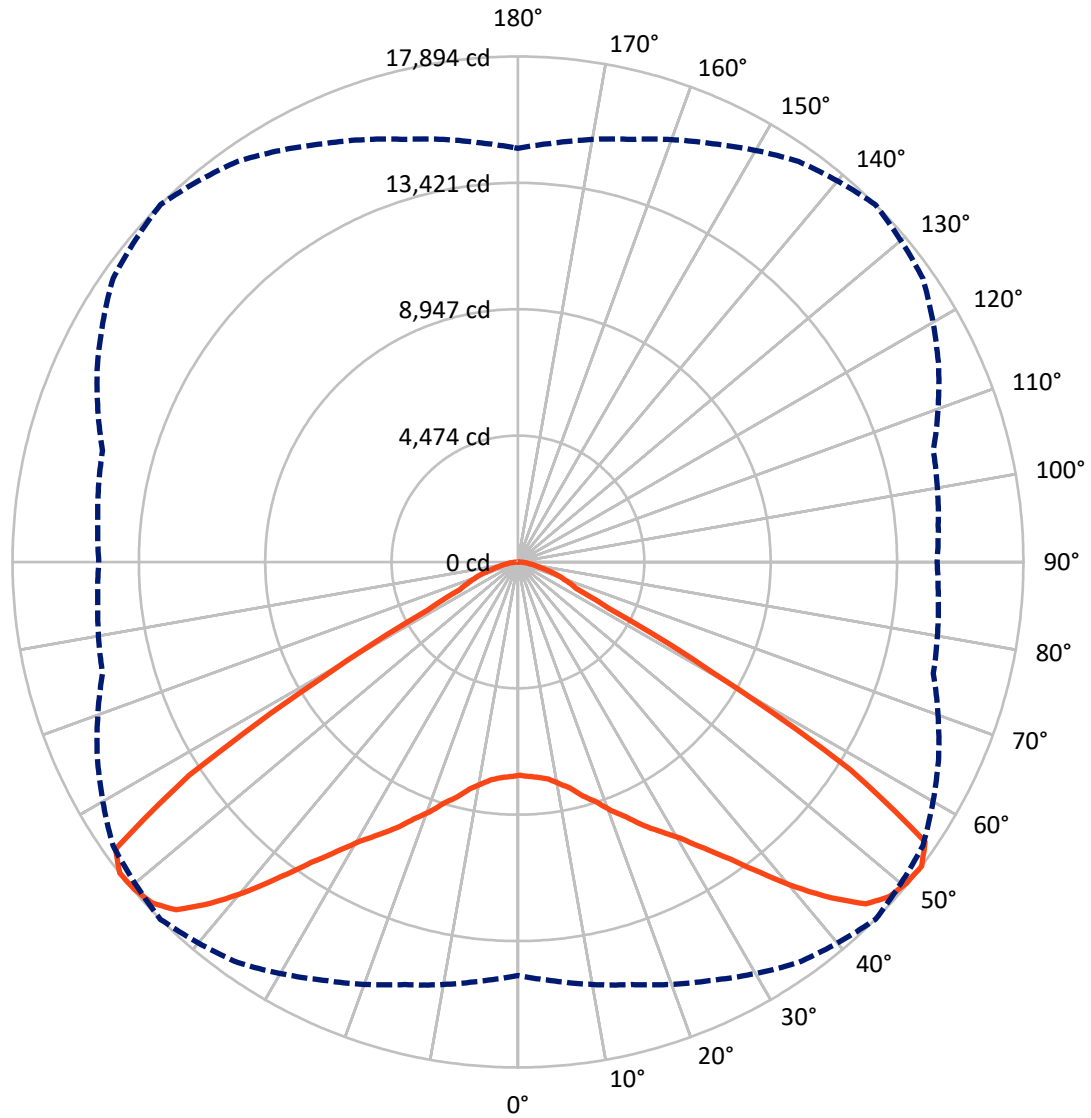
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.4 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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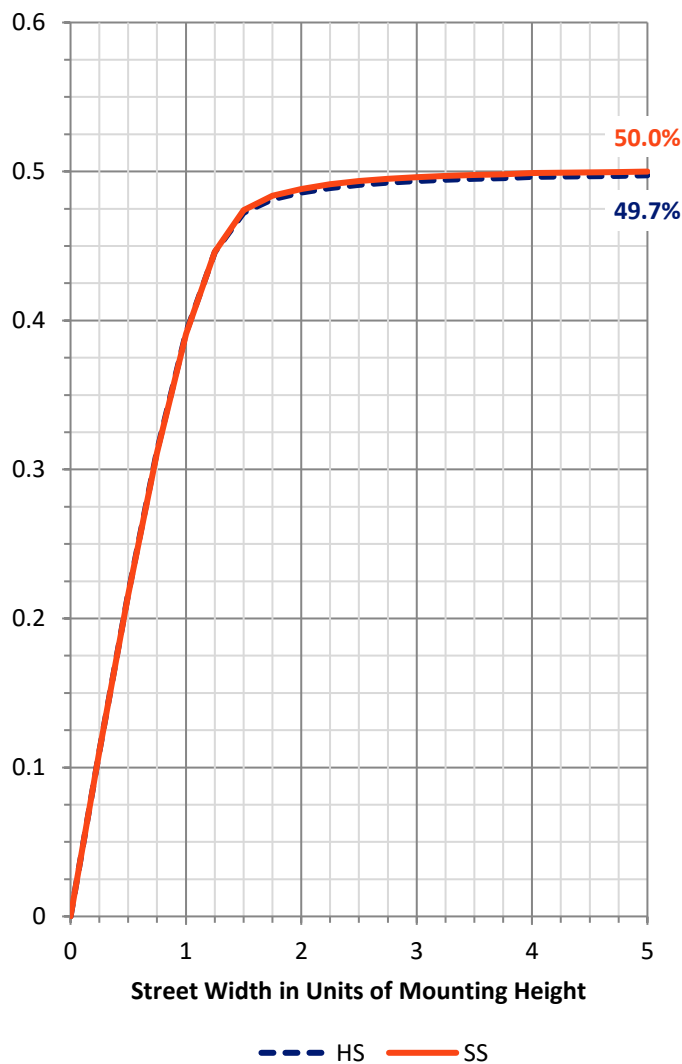
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	22586.5	0.0	22586.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	22586.5	0.0	22586.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	45173.0	0.0	45173.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	741.9	1.6
10°-20°	2437.8	5.4
20°-30°	4641.2	10.3
30°-40°	7969.3	17.6
40°-50°	12249.0	27.1
50°-60°	12438.7	27.5
60°-70°	3466.5	7.7
70°-80°	1022.6	2.3
80°-90°	206.0	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°	45173.0	100.0
0°-180°	45173.0	100.0

Coefficient of Utilization



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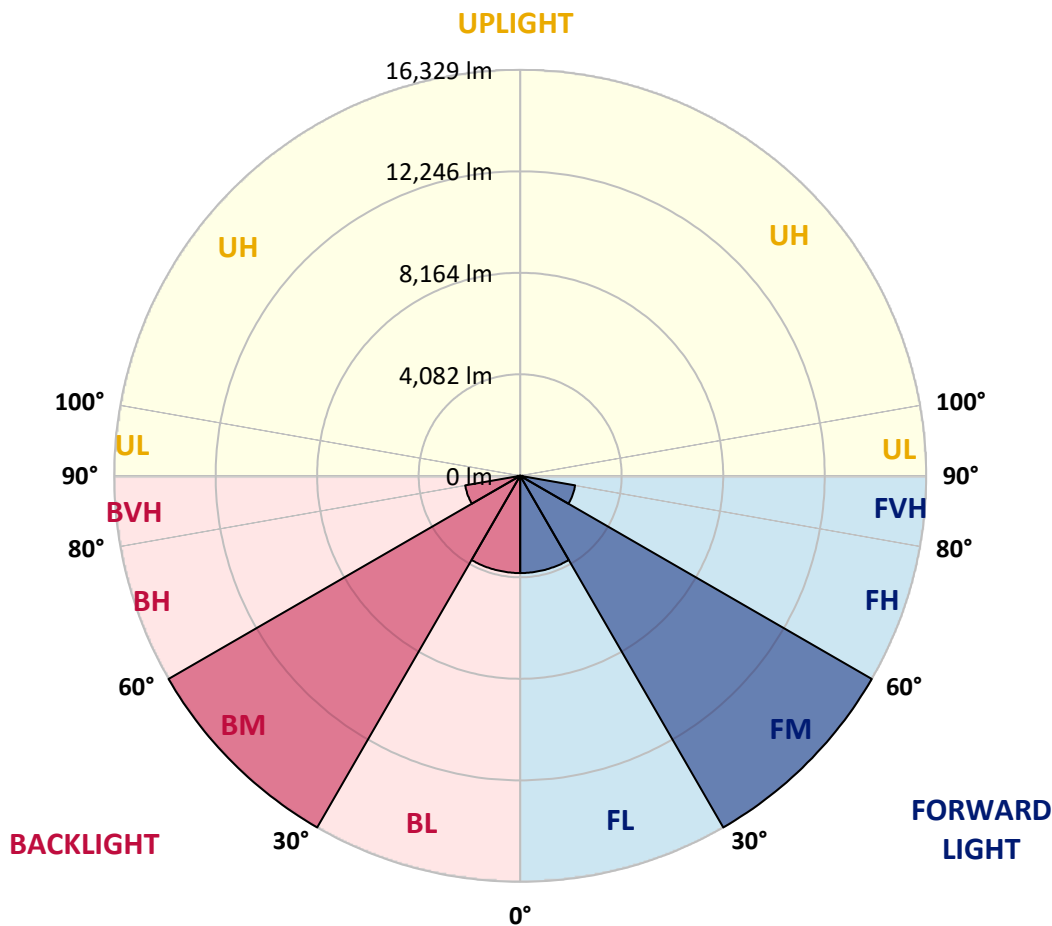
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3910.5	8.7			
FM (30°-60°)	16328.5	36.1			
FH (60°-80°)	2244.5	5.0			G2/5000
FVH (80°-90°)	103.0	0.2			G2/225
BL (0°-30°)	3910.5	8.7	B4/5000		
BM (30°-60°)	16328.5	36.1	B5		
BH (60°-80°)	2244.5	5.0	B3/2500		G2/5000
BVH (80°-90°)	103.0	0.2			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7551.3	7551.3	7551.3	7551.3	7551.3	7551.3	7551.3	7551.3	7551.3	7551.3	7551.3
2.5°	7568.1	7489.6	7517.6	7534.4	7607.3	7601.7	7584.9	7607.3	7629.7	7635.4	7624.1
5°	7562.5	7506.4	7528.8	7545.7	7618.5	7657.8	7646.6	7741.9	7809.1	7792.3	7876.4
7.5°	7517.6	7551.3	7523.2	7607.3	7669.0	7764.3	7865.2	7954.9	8039.0	8134.3	8151.1
10°	7618.5	7618.5	7669.0	7736.3	7898.8	7971.7	8117.5	8246.4	8409.0	8521.1	8476.2
12.5°	7725.0	7741.9	7741.9	7915.7	8050.2	8212.8	8347.3	8521.1	8750.9	8885.5	8952.8
15°	7831.6	7842.8	7898.8	8134.3	8336.1	8594.0	8717.3	8874.3	9003.2	9255.5	9261.1
17.5°	7926.9	7988.5	8156.7	8420.2	8672.5	8919.1	9115.3	9277.9	9390.0	9490.9	9468.5
20°	8285.6	8330.5	8504.3	8767.8	9143.4	9384.4	9451.7	9479.7	9552.6	9754.4	9692.7
22.5°	8633.2	8650.0	8812.6	9216.2	9479.7	9799.3	9872.1	9855.3	9883.4	9933.8	10023.5
25°	8992.0	9020.0	9244.3	9586.2	9956.2	10337.4	10399.1	10270.2	10230.9	10287.0	10292.6
27.5°	9451.7	9457.3	9743.2	10040.3	10460.8	10819.6	10914.9	10813.9	10628.9	10673.8	10746.7
30°	10034.7	9995.5	10281.4	10707.4	11150.3	11352.1	11514.7	11464.2	11262.4	11223.2	11161.5
32.5°	10707.4	10718.6	10976.5	11441.8	11733.3	12069.7	12243.5	12159.4	12030.4	11963.2	12002.4
35°	11654.8	11705.3	11879.1	12265.9	12736.8	12905.0	13179.7	13000.3	12663.9	12748.0	12820.9
37.5°	12434.1	12579.8	12905.0	13364.7	13645.0	13953.3	14054.2	13813.1	13566.5	13465.6	13706.6
40°	13628.2	13583.3	13942.1	14401.8	14816.6	15124.9	14996.0	14755.0	14143.9	14149.5	14216.8
42.5°	14654.0	14676.5	14951.2	15500.5	16066.8	16257.4	15848.1	15259.5	14581.2	14508.3	14654.0
45°	15517.4	15607.1	15764.0	16498.4	17053.4	17260.8	16504.0	15808.9	14900.7	14598.0	14839.0
47.5°	15825.7	15971.5	16313.4	16986.1	17535.5	17703.7	17098.3	16100.4	15197.8	14704.5	14833.4
50°	15870.5	15820.1	16380.7	16997.3	17479.5	17843.9	17311.3	16313.4	15124.9	14867.1	14827.8
52.5°	14642.8	14889.5	15489.3	16335.8	17311.3	17894.3	17501.9	16431.1	15225.9	14934.3	14839.0
55°	11851.1	11559.5	12652.7	14076.6	15870.5	17490.7	17434.6	16492.8	15287.5	15046.5	14917.5
57.5°	6615.1	6699.2	7315.8	8863.1	11178.3	13869.2	15500.5	15842.5	15259.5	15119.3	15186.6
60°	3060.9	3088.9	3352.4	4075.6	5510.7	7865.2	10012.3	12193.0	13196.5	13398.3	13398.3
62.5°	2281.6	2270.4	2337.7	2466.6	2769.4	3615.9	4826.8	6559.0	7938.1	8902.3	9154.6
65°	2063.0	2057.4	2091.0	2135.9	2158.3	2276.0	2545.1	3077.7	3526.2	3784.0	3739.2
67.5°	1805.1	1799.5	1810.7	1838.8	1878.0	1939.7	2006.9	2119.1	2276.0	2264.8	2236.8
70°	1457.6	1457.6	1474.4	1496.8	1541.6	1614.5	1693.0	1771.5	1906.0	1934.1	1928.5
72.5°	1076.3	1059.5	1093.2	1138.0	1182.9	1272.6	1356.6	1429.5	1524.8	1552.9	1541.6
75°	683.9	695.1	717.6	768.0	846.5	908.2	997.9	1059.5	1121.2	1143.6	1149.2
77.5°	381.2	392.4	431.7	493.3	571.8	639.1	717.6	768.0	807.3	812.9	818.5
80°	229.8	235.5	274.7	330.8	398.0	470.9	532.6	583.0	616.7	599.8	594.2
82.5°	140.1	145.8	179.4	229.8	285.9	342.0	409.2	454.1	487.7	465.3	442.9
85°	72.9	78.5	106.5	140.1	185.0	213.0	213.0	190.6	185.0	173.8	168.2
87.5°	22.4	22.4	28.0	33.6	28.0	33.6	39.2	44.8	44.8	50.5	44.8
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)