

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: P533942

Luminaire Tested: **GALN-SA9B-830-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533942
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9B-830-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36181 lumens
Efficiency: N/A
Efficacy: 99.4 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): 364
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



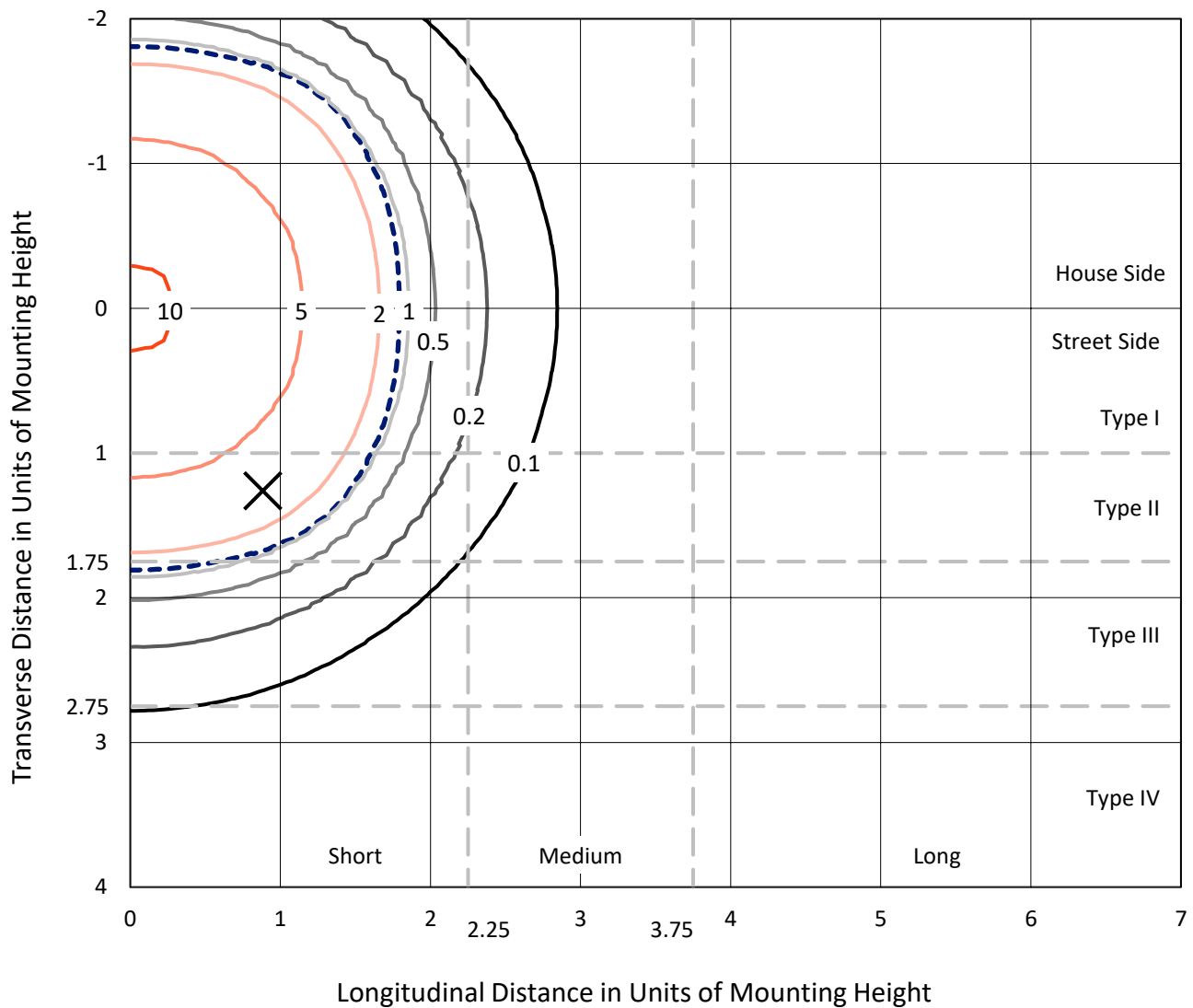
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Iso-Footcandle Lines of Horizontal Illumination

✗ Max cd

--- 1/2 Max cd



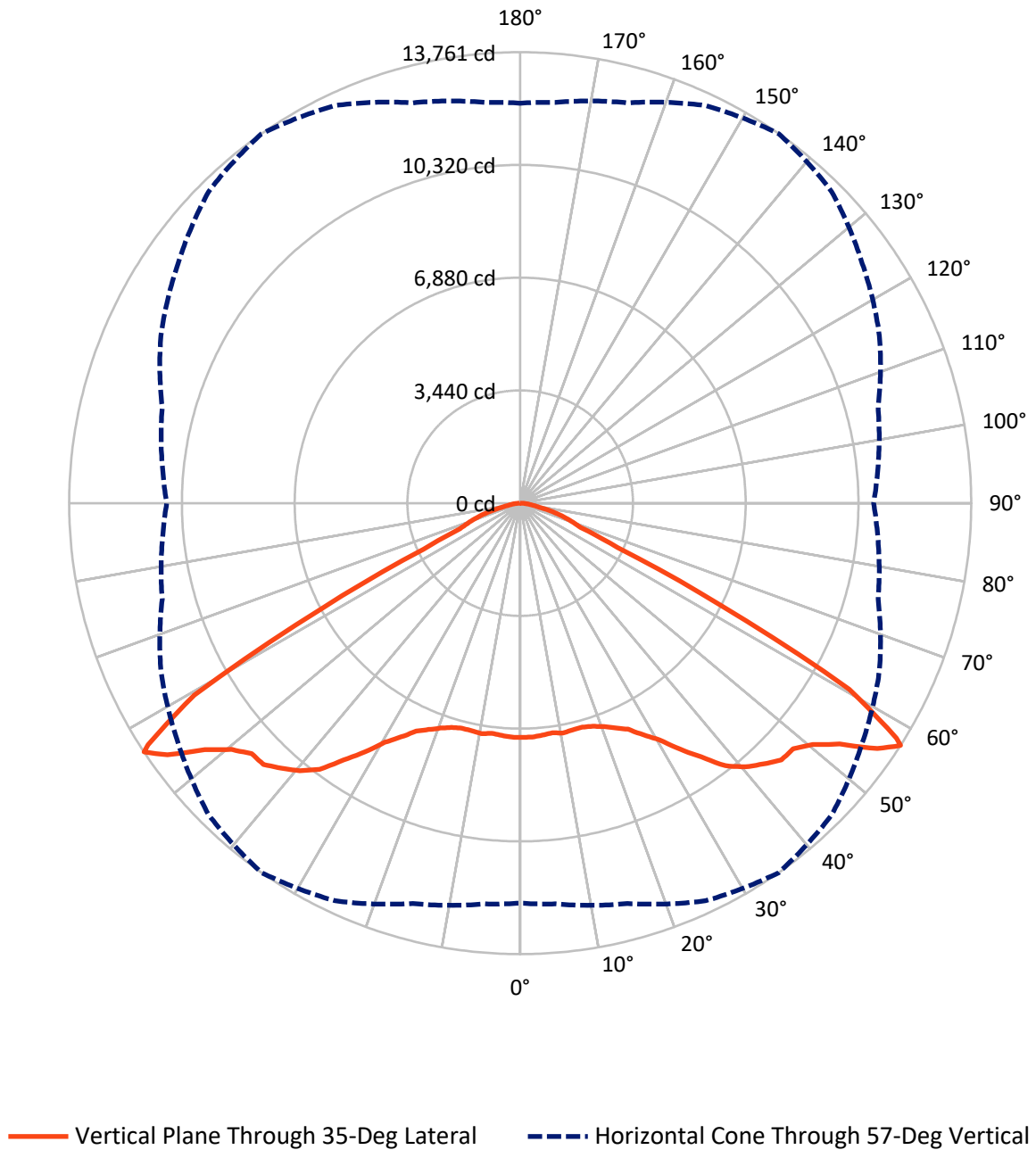
Based on 25 foot mounting height. Maximum calculated value = 11.4 fc

Type V - Short - N/A

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Luminous Intensity Polar Plot



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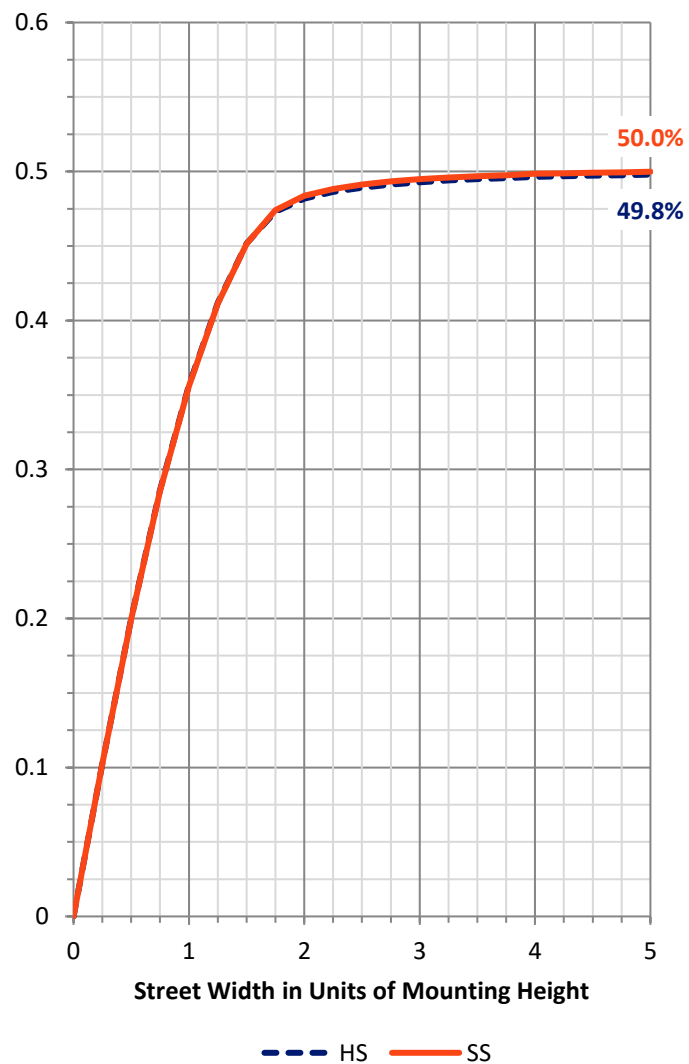
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18090.5	0.0	18090.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18090.5	0.0	18090.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	36181.0	0.0	36181.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	677.4	1.9
10°-20°	2006.3	5.5
20°-30°	3504.0	9.7
30°-40°	5741.4	15.9
40°-50°	8418.3	23.3
50°-60°	10603.5	29.3
60°-70°	3987.9	11.0
70°-80°	1060.4	2.9
80°-90°	181.8	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°	36181.0	100.0
0°-180°	36181.0	100.0

Coefficient of Utilization



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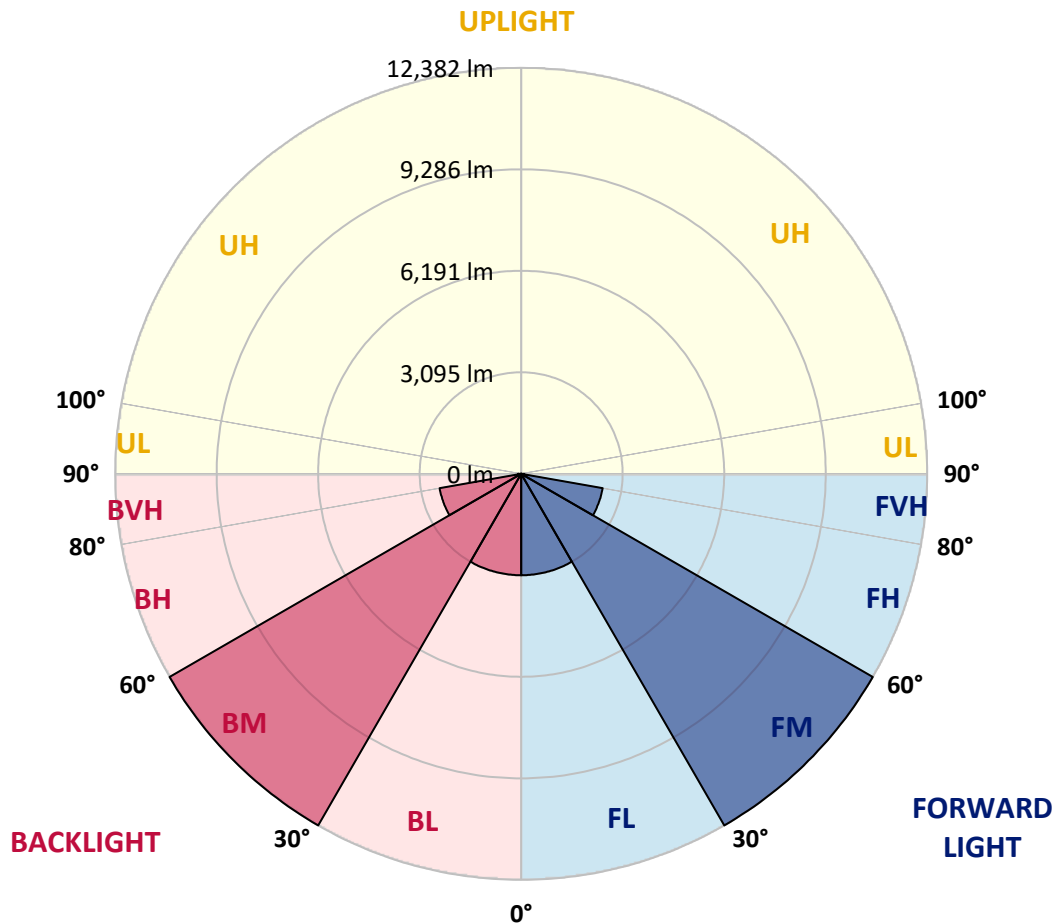
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3093.9	8.6			
FM	(30°-60°)	12381.6	34.2			
FH	(60°-80°)	2524.1	7.0			G2/5000
FVH	(80°-90°)	90.9	0.3			G1/100
BL	(0°-30°)	3093.9	8.6	B4/5000		
BM	(30°-60°)	12381.6	34.2	B5		
BH	(60°-80°)	2524.1	7.0	B4/5000		G2/5000
BVH	(80°-90°)	90.9	0.3			G1/100
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°	7145.5	7145.5	7145.5	7145.5	7145.5	7145.5	7145.5	7145.5	7145.5	7145.5	7145.5
2.5°	7109.8	7181.1	7149.9	7132.1	7145.5	7123.2	7087.5	7127.7	7118.7	7083.1	7069.7
5°	7092.0	7145.5	7109.8	7145.5	7109.8	7172.2	7154.4	7087.5	7167.8	7092.0	7118.7
7.5°	7078.6	7096.4	7105.4	7087.5	7074.2	7149.9	7109.8	7078.6	7034.0	7020.7	7043.0
10°	7047.4	7092.0	7025.1	7114.3	7132.1	7078.6	7078.6	7020.7	6985.0	6962.7	7038.5
12.5°	7127.7	7051.9	7043.0	7087.5	7100.9	7123.2	7060.8	7029.6	6962.7	6971.6	6958.3
15°	7034.0	7065.2	7069.7	7078.6	7092.0	7145.5	7087.5	7020.7	6993.9	6900.3	6909.2
17.5°	7069.7	7038.5	7069.7	7172.2	7154.4	7194.5	7132.1	7029.6	6967.2	6913.7	6985.0
20°	7132.1	7118.7	7132.1	7256.9	7279.2	7314.9	7261.4	7167.8	7047.4	6985.0	7020.7
22.5°	7199.0	7190.1	7199.0	7319.3	7448.6	7493.2	7439.7	7221.3	7158.9	7043.0	7002.8
25°	7319.3	7328.2	7421.9	7555.6	7640.3	7725.0	7626.9	7470.9	7270.3	7199.0	7114.3
27.5°	7586.8	7609.1	7662.6	7858.7	8005.8	8081.6	7943.4	7729.4	7604.6	7457.5	7435.2
30°	7916.6	7916.6	8010.2	8179.6	8380.2	8496.1	8326.7	8072.7	7921.1	7840.9	7791.8
32.5°	8353.5	8304.4	8340.1	8638.8	8950.8	9048.9	8821.5	8509.5	8268.8	8161.8	8126.1
35°	8727.9	8759.1	8839.4	9160.3	9508.0	9735.3	9378.7	8973.1	8727.9	8629.9	8612.0
37.5°	9213.8	9267.3	9307.4	9748.7	10167.7	10252.4	9909.2	9583.8	9285.1	9204.9	9160.3
40°	9900.3	9864.6	9878.0	10203.4	10582.3	10635.8	10297.0	10065.2	9820.0	9771.0	9771.0
42.5°	10466.4	10426.3	10470.8	10591.2	10880.9	10840.8	10653.6	10484.2	10381.7	10328.2	10381.7
45°	10809.6	10800.7	10880.9	10970.1	11175.1	11041.4	10894.3	10921.0	10823.0	10733.8	10729.4
47.5°	11184.0	11126.1	11224.2	11357.9	11201.9	11139.5	11130.5	11188.5	11157.3	11001.3	10952.2
50°	11366.8	11344.5	11500.5	11656.5	11571.8	11429.2	11460.4	11554.0	11152.8	10943.3	10823.0
52.5°	11857.1	11861.6	12160.2	12244.9	12209.3	11999.8	12066.6	11812.6	11340.1	11045.9	11059.2
55°	12628.3	12597.1	12931.4	13181.0	13221.1	12953.7	12632.7	12276.1	11683.3	11384.6	11295.5
57°	12204.8	12276.1	12646.1	13386.1	13760.5	13444.0	12744.2	12093.4	11304.4	10943.3	10782.9
57.5°	11638.7	11754.6	12396.5	13140.9	13533.2	13506.4	12606.0	11754.6	11050.3	10488.7	10502.0
60°	8527.3	8549.6	9129.1	10310.4	11536.2	11562.9	10466.4	9338.6	8554.1	7943.4	8028.1
62.5°	4497.7	4600.2	4832.0	5781.5	6842.4	7100.9	6436.7	5857.2	5179.7	4716.1	4760.7
65°	2380.3	2367.0	2478.4	2745.9	3267.4	3401.1	3312.0	2852.8	2616.6	2540.8	2545.3
67.5°	1934.6	1956.9	1943.5	1956.9	1992.5	2050.5	2037.1	2054.9	2068.3	2090.6	2086.1
70°	1640.4	1640.4	1649.3	1653.8	1653.8	1680.5	1711.7	1769.7	1774.1	1796.4	1805.3
72.5°	1292.7	1283.8	1297.2	1328.4	1332.8	1355.1	1399.7	1435.3	1448.7	1448.7	1422.0
75°	878.1	887.1	904.9	931.6	958.4	998.5	1034.2	1056.4	1065.4	1052.0	1038.6
77.5°	494.8	503.7	517.1	557.2	588.4	624.1	664.2	686.5	708.8	713.2	686.5
80°	294.2	294.2	316.5	347.7	383.4	419.0	454.7	481.4	490.3	490.3	477.0
82.5°	178.3	182.8	200.6	231.8	263.0	285.3	316.5	338.8	356.6	352.1	343.2
85°	93.6	93.6	111.4	138.2	160.5	182.8	182.8	169.4	160.5	138.2	129.3
87.5°	31.2	26.7	35.7	35.7	31.2	35.7	35.7	40.1	40.1	40.1	40.1
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)