

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: P652595

Luminaire Tested: **GALN-SA9B-840-U-5WQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652595
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9B-840-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36804.7 lumens
Efficiency: N/A
Efficacy: 101.1 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

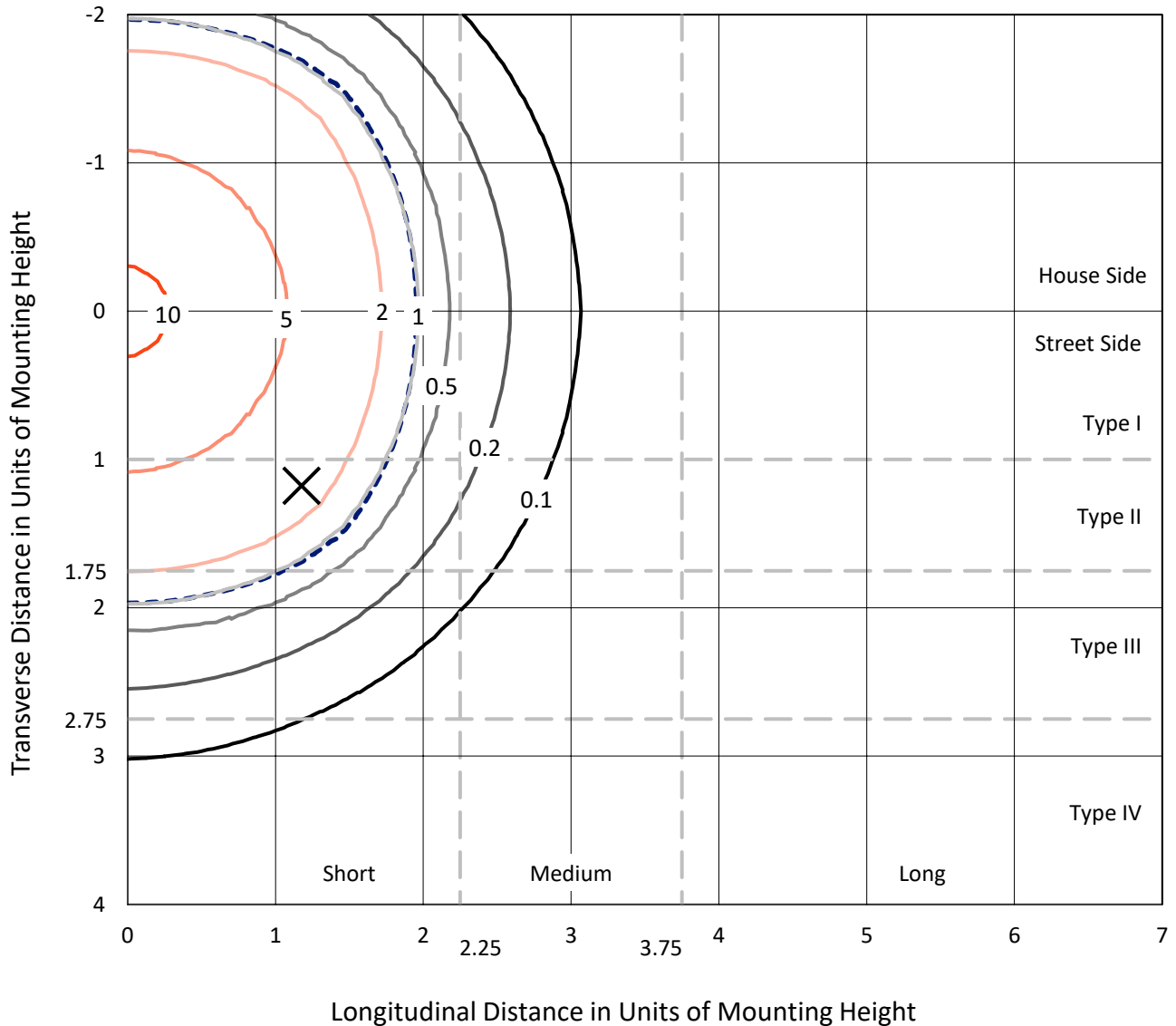




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Iso-Footcandle Lines of Horizontal Illumination

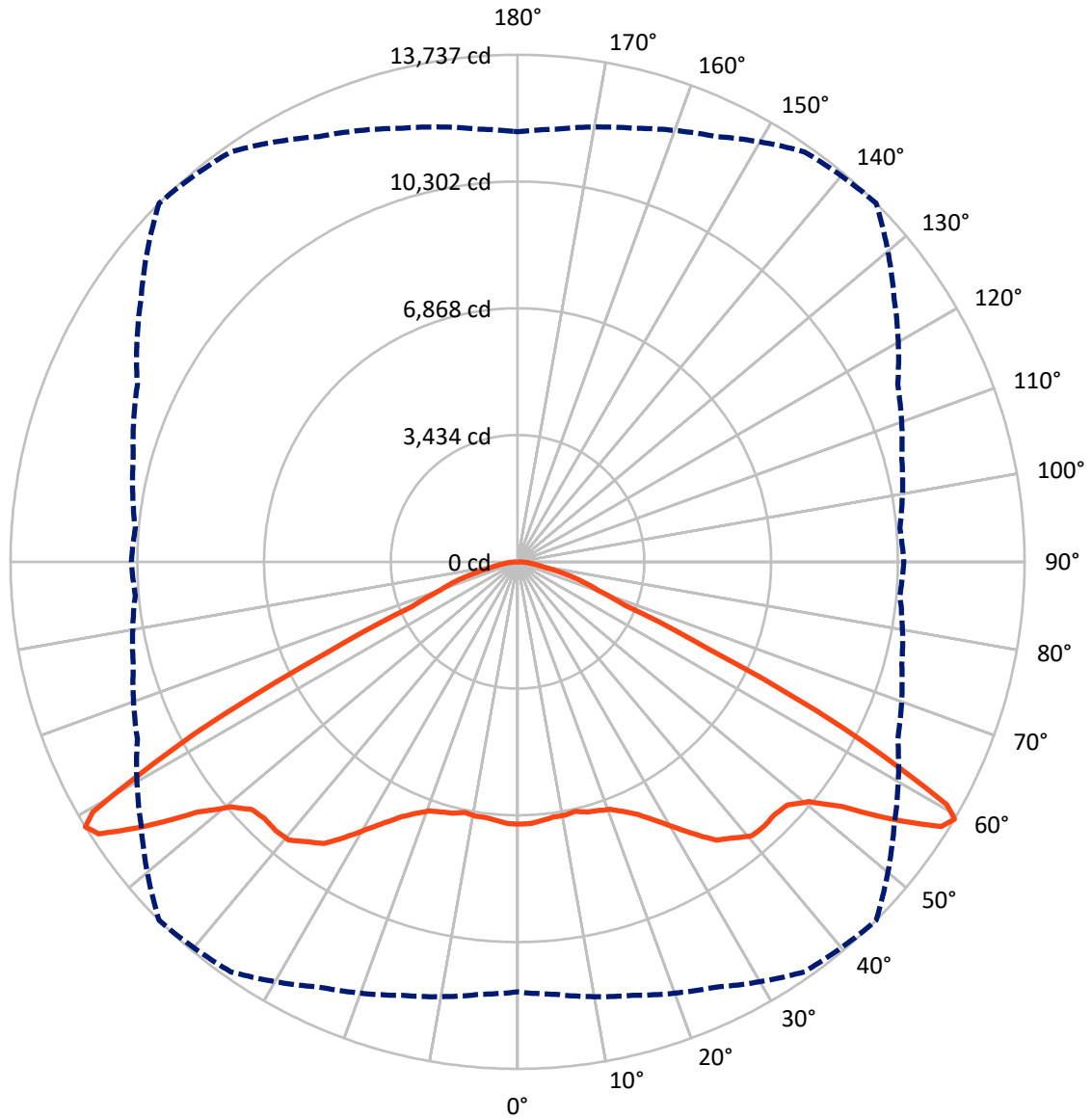
✕ Max cd
 - - - 1/2 Max cd



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



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 59-Deg Vertical

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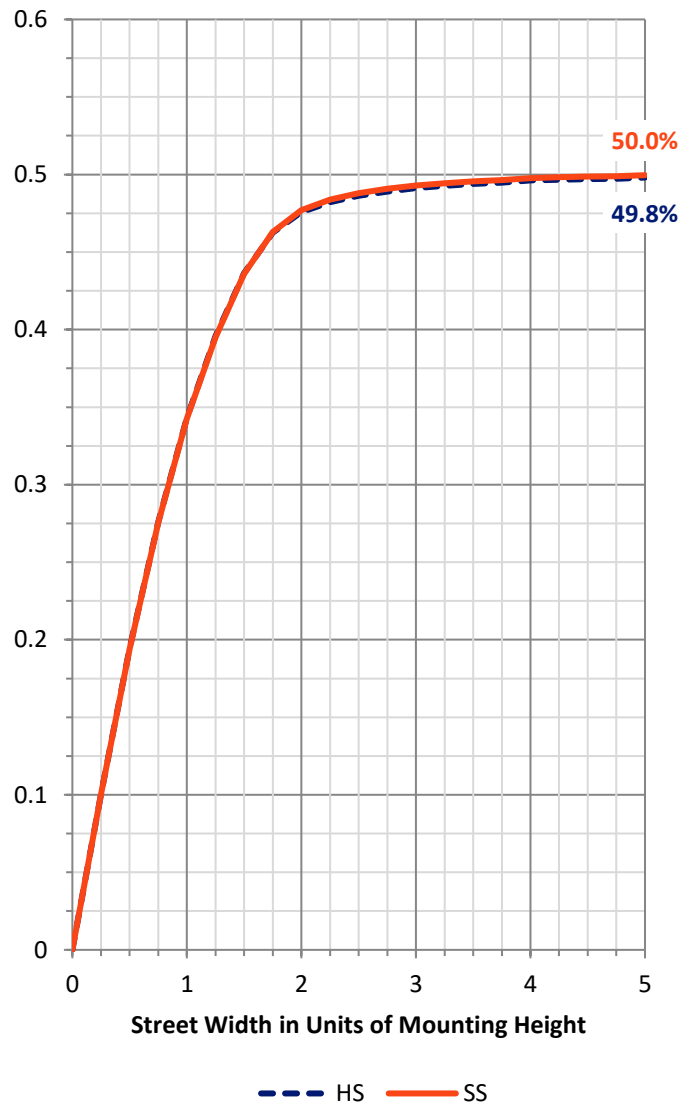
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18402.3	0.0	18402.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18402.3	0.0	18402.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	36804.7	0.0	36804.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	670.1	1.8
10°-20°	1992.9	5.4
20°-30°	3479.8	9.5
30°-40°	5557.7	15.1
40°-50°	7570.8	20.6
50°-60°	10237.7	27.8
60°-70°	5614.4	15.3
70°-80°	1436.3	3.9
80°-90°	245.0	0.7
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°	36804.7	100.0
0°-180°	36804.7	100.0

Coefficient of Utilization



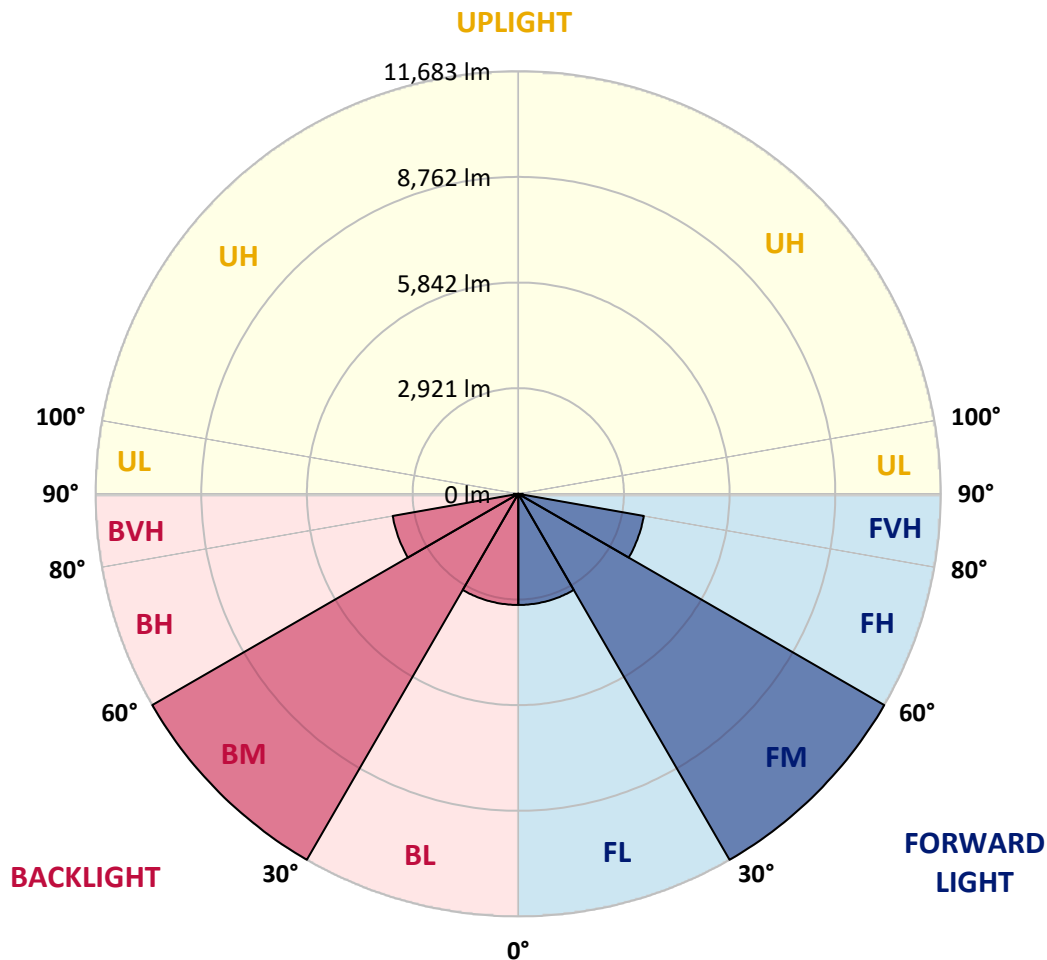
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3071.4	8.3			
FM (30°-60°)	11683.1	31.7			
FH (60°-80°)	3525.4	9.6			G2/5000
FVH (80°-90°)	122.5	0.3			G2/225
BL (0°-30°)	3071.4	8.3	B4/5000		
BM (30°-60°)	11683.1	31.7	B5		
BH (60°-80°)	3525.4	9.6	B4/5000		G2/5000
BVH (80°-90°)	122.5	0.3			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°	7108.9	7108.9	7108.9	7108.9	7108.9	7108.9	7108.9	7108.9	7108.9	7108.9	7108.9
2.5°	7066.4	7118.3	7080.6	7113.6	7108.9	7094.8	7071.1	7057.0	7038.2	7066.4	7019.2
5°	7038.2	7080.6	7123.0	7066.4	7066.4	7038.2	7024.0	6995.7	6995.7	6991.0	6986.3
7.5°	7085.3	7042.9	7024.0	7033.5	7042.9	6981.6	7024.0	6967.3	6920.3	6953.2	6991.0
10°	7042.9	7061.7	6991.0	7024.0	6972.1	6981.6	6953.2	6991.0	6939.1	6939.1	6939.1
12.5°	7085.3	7033.5	7057.0	7033.5	7019.2	6939.1	6976.9	6934.4	6929.7	6976.9	6934.4
15°	7170.2	7085.3	7066.4	7019.2	7033.5	7033.5	6995.7	7000.4	6948.5	6976.9	6986.3
17.5°	7141.9	7094.8	7080.6	7024.0	7071.1	7085.3	7014.5	6967.3	7000.4	6995.7	6991.0
20°	7165.5	7184.4	7170.2	7179.7	7198.5	7160.8	7094.8	7028.7	6986.3	7047.6	7042.9
22.5°	7316.4	7297.6	7288.2	7278.7	7311.7	7349.5	7259.8	7156.1	7156.1	7198.5	7217.4
25°	7439.1	7434.4	7429.6	7472.1	7585.3	7585.3	7472.1	7340.1	7307.0	7335.4	7311.7
27.5°	7618.4	7670.3	7651.4	7726.9	7891.9	7929.7	7778.7	7623.1	7533.4	7500.5	7542.9
30°	8028.8	7967.5	7981.6	8061.8	8208.0	8330.7	8099.5	7934.4	7811.8	7807.1	7825.9
32.5°	8302.4	8349.5	8392.0	8467.4	8698.6	8793.0	8514.6	8245.8	8170.3	8127.8	8142.0
35°	8849.6	8807.1	8797.7	8873.1	9104.3	9260.0	8910.9	8675.0	8575.9	8670.3	8670.3
37.5°	9368.5	9250.6	9160.9	9260.0	9472.3	9491.1	9193.9	9066.6	9014.7	9123.2	9118.5
40°	9613.8	9604.3	9396.7	9453.3	9736.4	9764.7	9486.4	9335.4	9326.0	9467.6	9609.0
42.5°	9868.5	9778.9	9571.3	9609.0	9783.6	9793.0	9528.9	9486.4	9590.2	9727.0	9736.4
45°	9910.9	9835.5	9703.4	9609.0	9736.4	9764.7	9609.0	9637.4	9646.8	9811.9	9811.9
47.5°	9995.9	9986.5	9910.9	9840.2	9863.8	9840.2	9741.1	9783.6	9925.1	10005.3	9967.5
50°	10231.7	10132.7	10208.1	10146.8	10151.5	10217.6	10127.9	10170.4	10142.1	10071.3	10024.1
52.5°	10750.6	10703.5	10769.5	10812.0	10859.2	11010.0	10906.3	10679.9	10467.6	10278.9	10274.2
55°	11510.1	11543.1	11670.5	11887.5	12071.5	12312.1	11812.0	11269.5	10929.9	10632.7	10651.6
57.5°	12227.1	12203.6	12378.1	12873.4	13411.2	13533.8	12552.6	11779.0	11227.1	11038.4	10958.1
59°	11651.6	11764.8	12161.1	12713.0	13557.4	13736.6	12453.5	11363.8	10778.9	10396.9	10462.9
60°	10745.9	10788.3	11142.2	11911.1	13052.7	13359.3	11788.4	10722.3	9944.0	9722.3	9821.4
62.5°	7594.8	7561.8	7816.5	8443.9	9467.6	9882.7	8764.6	8014.6	7524.0	7278.7	7335.4
65°	4038.0	4188.9	4292.7	4684.2	5226.7	5665.4	5203.1	4877.6	4604.1	4401.2	4396.5
67.5°	2726.6	2707.7	2731.3	2820.9	3004.9	3127.5	3118.1	2953.0	2929.5	2891.7	2934.2
70°	2297.3	2287.9	2245.4	2245.4	2283.1	2311.5	2344.5	2363.4	2401.1	2448.2	2443.5
72.5°	1863.3	1839.8	1811.4	1797.3	1844.5	1858.6	1901.1	1919.9	1953.0	1948.3	1990.6
75°	1231.2	1231.2	1264.2	1302.0	1316.1	1344.4	1349.1	1405.7	1405.7	1415.2	1377.5
77.5°	688.7	669.9	693.4	731.2	764.2	816.1	868.0	910.5	934.0	924.6	924.6
80°	401.0	401.0	424.5	467.0	509.5	556.7	594.3	627.4	651.0	641.5	622.7
82.5°	250.0	250.0	273.6	316.0	349.1	377.4	429.2	471.7	500.1	490.6	467.0
85°	127.3	127.3	155.7	184.0	226.4	245.3	240.6	221.7	217.0	193.4	193.4
87.5°	33.1	33.1	47.2	51.9	42.5	47.2	47.2	47.2	47.2	47.2	51.9
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)