

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: P533582

Luminaire Tested: **GALN-SA9A-735-U-5WQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533582
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-SA9A-735-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 615mA 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: 32764 lumens
Efficiency: N/A
Efficacy: 119.6 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

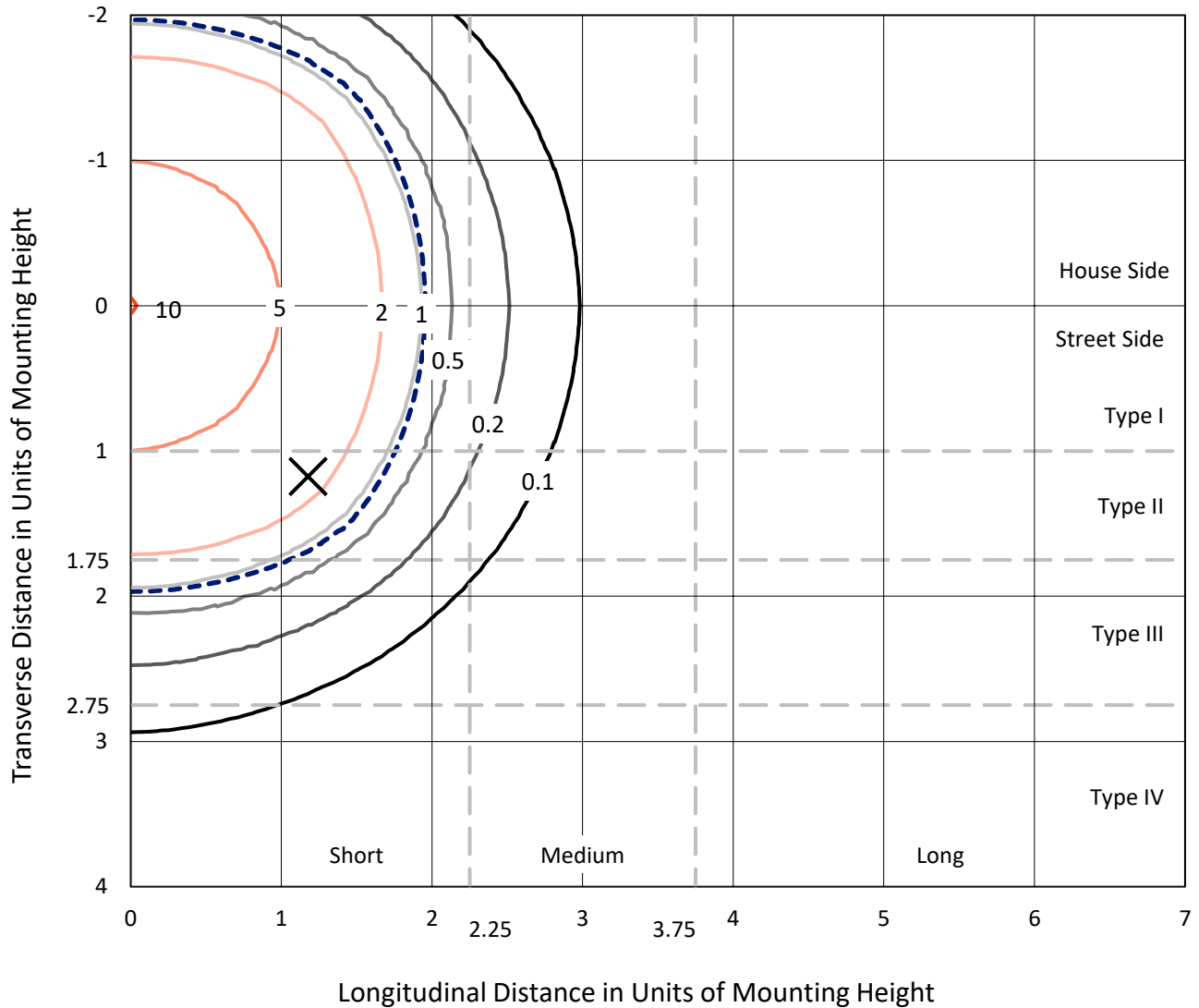
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

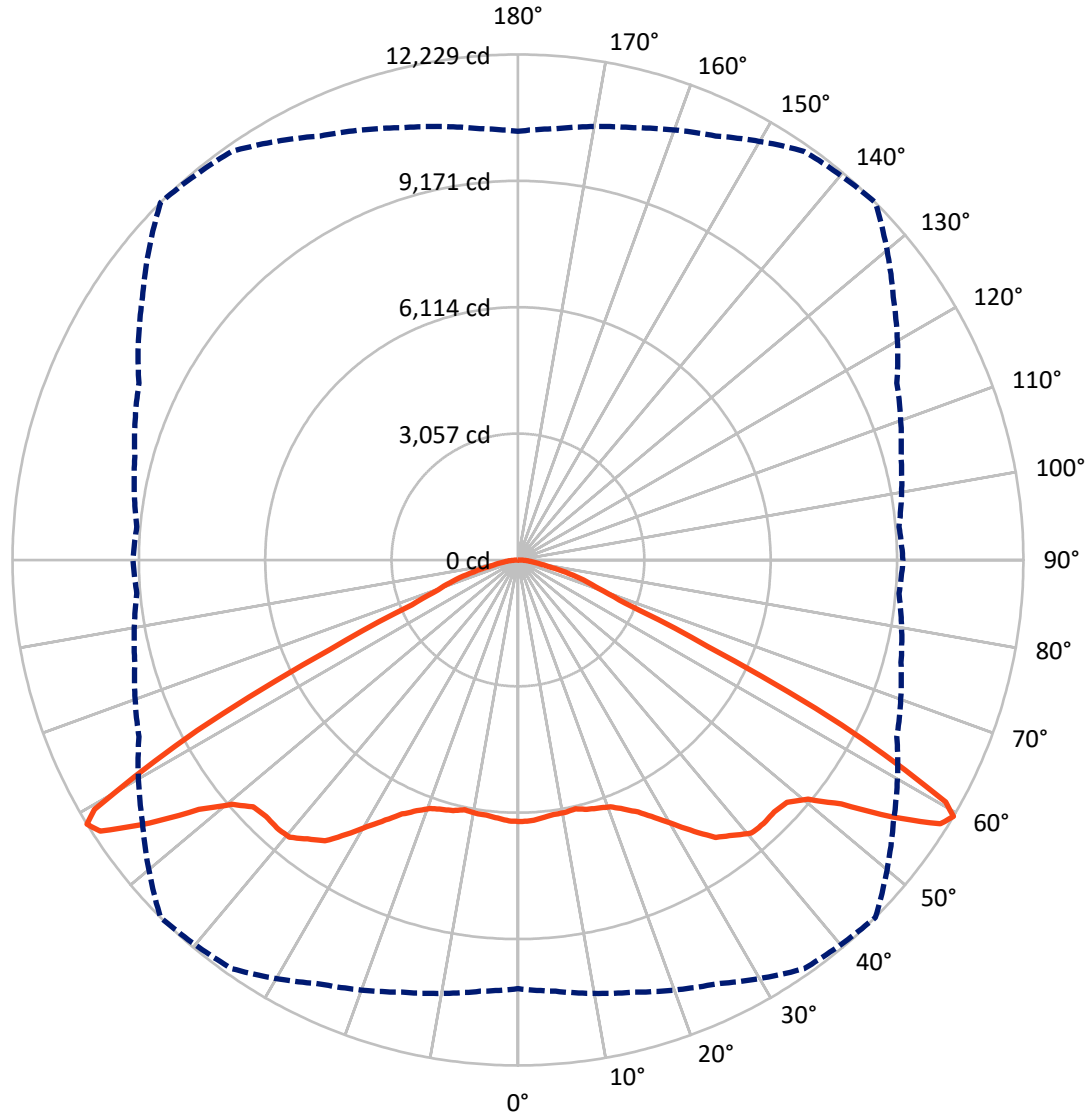
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 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	16382.0	0.0	16382.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16382.0	0.0	16382.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	32764.0	0.0	32764.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	596.6	1.8
10°-20°	1774.1	5.4
20°-30°	3097.8	9.5
30°-40°	4947.6	15.1
40°-50°	6739.6	20.6
50°-60°	9113.7	27.8
60°-70°	4998.0	15.3
70°-80°	1278.6	3.9
80°-90°	218.1	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°	32764.0	100.0
0°-180°	32764.0	100.0

Coefficient of Utilization



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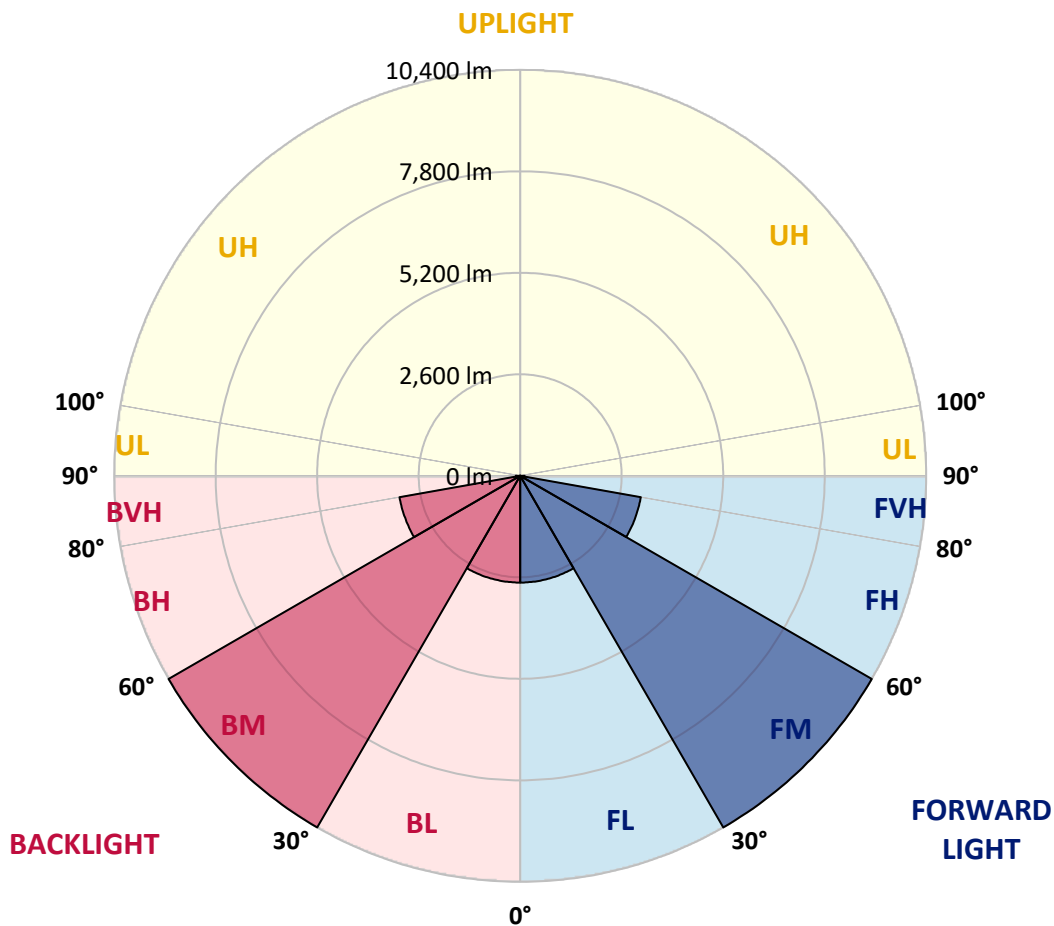
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2734.2	8.3			
FM (30°-60°)	10400.4	31.7			
FH (60°-80°)	3138.3	9.6			G2/5000
FVH (80°-90°)	109.0	0.3			G2/225
BL (0°-30°)	2734.2	8.3	B4/5000		
BM (30°-60°)	10400.4	31.7	B5		
BH (60°-80°)	3138.3	9.6	B4/5000		G2/5000
BVH (80°-90°)	109.0	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°	6328.4	6328.4	6328.4	6328.4	6328.4	6328.4	6328.4	6328.4	6328.4	6328.4	6328.4
2.5°	6290.6	6336.8	6303.2	6332.6	6328.4	6315.8	6294.8	6282.2	6265.4	6290.6	6248.7
5°	6265.4	6303.2	6341.0	6290.6	6290.6	6265.4	6252.8	6227.7	6227.7	6223.5	6219.3
7.5°	6307.4	6269.6	6252.8	6261.2	6269.6	6215.1	6252.8	6202.5	6160.5	6189.9	6223.5
10°	6269.6	6286.4	6223.5	6252.8	6206.7	6215.1	6189.9	6223.5	6177.3	6177.3	6177.3
12.5°	6307.4	6261.2	6282.2	6261.2	6248.7	6177.3	6210.9	6173.1	6168.9	6210.9	6173.1
15°	6383.0	6307.4	6290.6	6248.7	6261.2	6261.2	6227.7	6231.9	6185.7	6210.9	6219.3
17.5°	6357.8	6315.8	6303.2	6252.8	6294.8	6307.4	6244.5	6202.5	6231.9	6227.7	6223.5
20°	6378.8	6395.6	6383.0	6391.4	6408.2	6374.6	6315.8	6257.0	6219.3	6273.8	6269.6
22.5°	6513.2	6496.4	6488.0	6479.6	6509.0	6542.6	6462.8	6370.4	6370.4	6408.2	6425.0
25°	6622.4	6618.2	6614.0	6651.8	6752.6	6752.6	6651.8	6534.2	6504.8	6530.0	6509.0
27.5°	6782.0	6828.2	6811.4	6878.6	7025.5	7059.1	6924.7	6786.2	6706.4	6677.0	6714.8
30°	7147.3	7092.7	7105.3	7176.7	7306.9	7416.1	7210.3	7063.3	6954.1	6949.9	6966.7
32.5°	7390.9	7432.9	7470.7	7537.9	7743.6	7827.6	7579.8	7340.5	7273.3	7235.5	7248.1
35°	7878.0	7840.2	7831.8	7899.0	8104.8	8243.3	7932.6	7722.6	7634.4	7718.4	7718.4
37.5°	8339.9	8234.9	8155.2	8243.3	8432.3	8449.1	8184.6	8071.2	8025.0	8121.6	8117.4
40°	8558.3	8549.9	8365.1	8415.5	8667.5	8692.7	8444.9	8310.5	8302.1	8428.1	8554.1
42.5°	8785.1	8705.3	8520.5	8554.1	8709.5	8717.9	8482.7	8444.9	8537.3	8659.1	8667.5
45°	8822.9	8755.7	8638.1	8554.1	8667.5	8692.7	8554.1	8579.3	8587.7	8734.7	8734.7
47.5°	8898.4	8890.0	8822.9	8759.9	8780.9	8759.9	8671.7	8709.5	8835.5	8906.8	8873.3
50°	9108.4	9020.2	9087.4	9032.8	9037.0	9095.8	9016.0	9053.8	9028.6	8965.6	8923.6
52.5°	9570.3	9528.4	9587.1	9624.9	9666.9	9801.3	9708.9	9507.4	9318.4	9150.4	9146.2
55°	10246.4	10275.8	10389.2	10582.4	10746.2	10960.3	10515.2	10032.3	9729.9	9465.4	9482.2
57.5°	10884.7	10863.7	11019.1	11460.1	11938.8	12048.0	11174.5	10485.8	9994.5	9826.5	9755.1
59°	10372.4	10473.2	10826.0	11317.3	12069.0	12228.5	11086.3	10116.3	9595.5	9255.4	9314.2
60°	9566.1	9603.9	9918.9	10603.4	11619.6	11892.6	10494.2	9545.1	8852.3	8654.9	8743.1
62.5°	6761.0	6731.6	6958.3	7516.9	8428.1	8797.7	7802.4	7134.7	6698.0	6479.6	6530.0
65°	3594.7	3729.0	3821.4	4170.0	4652.9	5043.4	4631.9	4342.1	4098.6	3918.0	3913.8
67.5°	2427.2	2410.4	2431.4	2511.2	2675.0	2784.2	2775.8	2628.8	2607.8	2574.2	2612.0
70°	2045.1	2036.7	1998.9	1998.9	2032.5	2057.7	2087.1	2103.9	2137.5	2179.5	2175.3
72.5°	1658.7	1637.8	1612.6	1600.0	1642.0	1654.5	1692.3	1709.1	1738.5	1734.3	1772.1
75°	1096.0	1096.0	1125.4	1159.0	1171.6	1196.8	1201.0	1251.4	1251.4	1259.8	1226.2
77.5°	613.1	596.3	617.3	650.9	680.3	726.5	772.7	810.5	831.5	823.1	823.1
80°	356.9	356.9	377.9	415.7	453.5	495.5	529.1	558.5	579.5	571.1	554.3
82.5°	222.6	222.6	243.6	281.4	310.8	335.9	382.1	419.9	445.1	436.7	415.7
85°	113.4	113.4	138.6	163.8	201.6	218.4	214.2	197.4	193.2	172.2	172.2
87.5°	29.4	29.4	42.0	46.2	37.8	42.0	42.0	42.0	42.0	42.0	46.2
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)