

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: P533580

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

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533580  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-6)  
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-5NQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 34786 lumens  
Efficiency: N/A  
Efficacy: 127.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

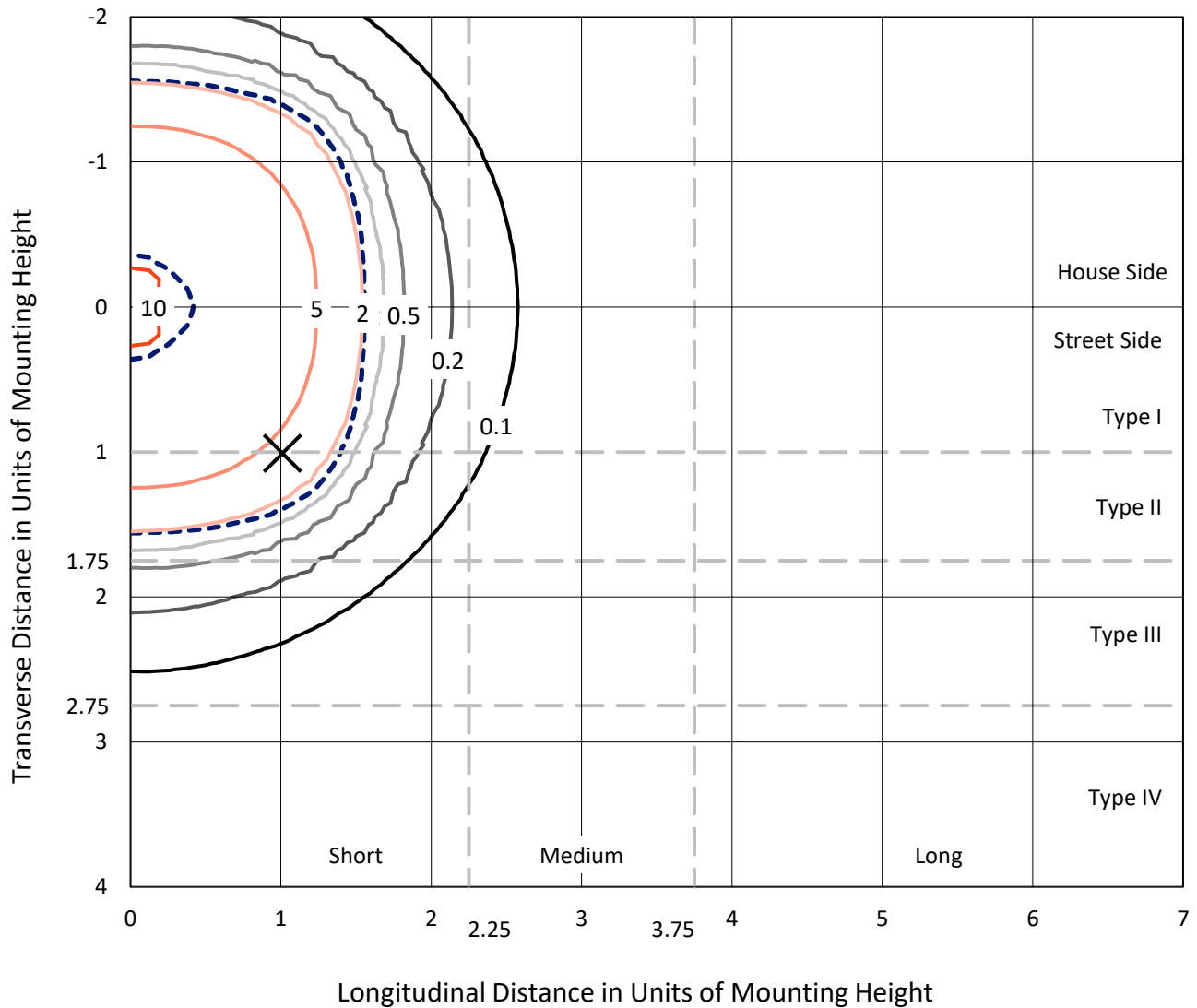
Input Watts (W): 274  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

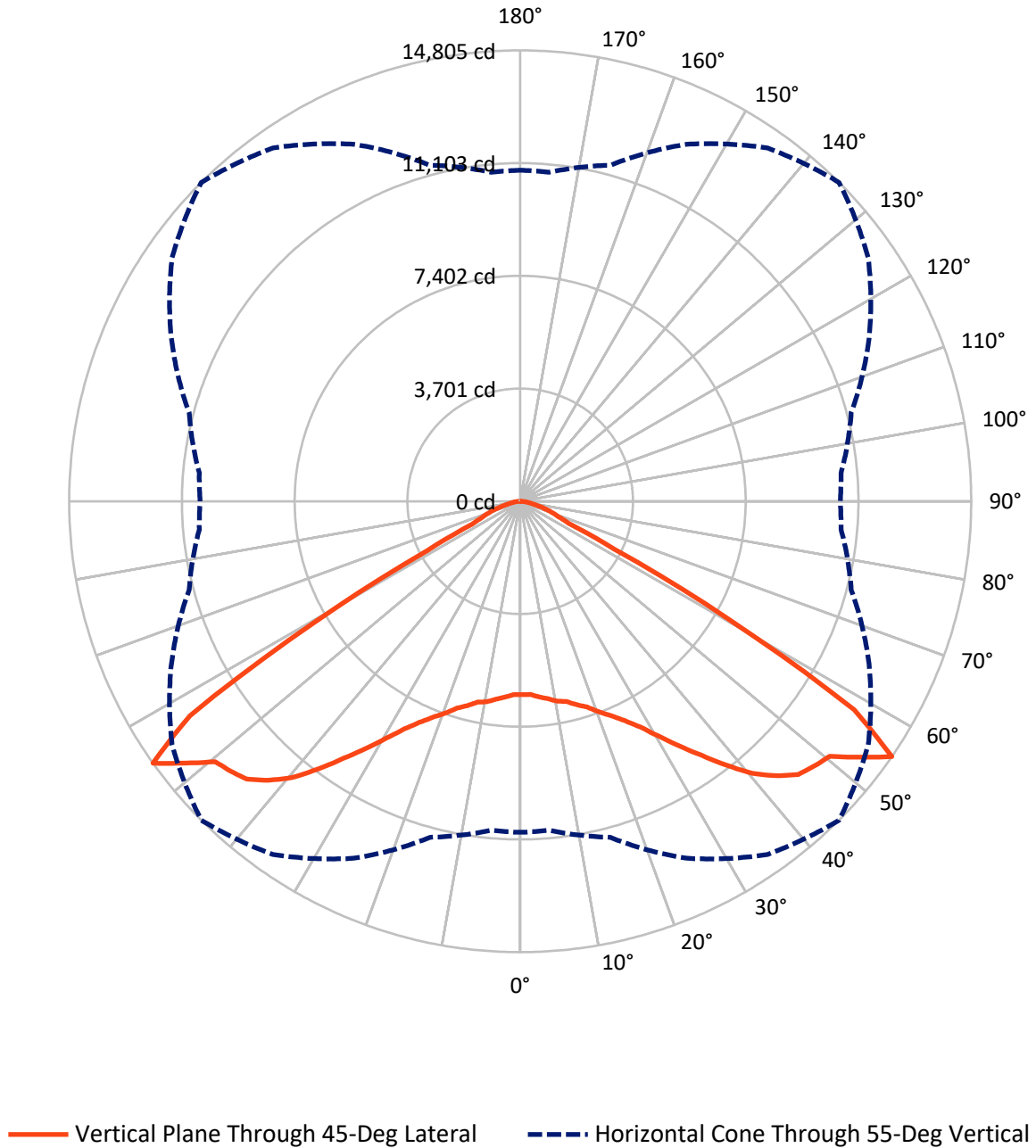
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot





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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	17393.0	0.0	17393.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	17393.0	0.0	17393.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	34786.0	0.0	34786.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	620.5	1.8
10°-20°	1966.0	5.7
20°-30°	3665.9	10.5
30°-40°	6137.9	17.6
40°-50°	9551.1	27.5
50°-60°	9917.0	28.5
60°-70°	2103.1	6.0
70°-80°	692.6	2.0
80°-90°	131.9	0.4
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°	34786.0	100.0
0°-180°	34786.0	100.0

**Coefficient of Utilization**

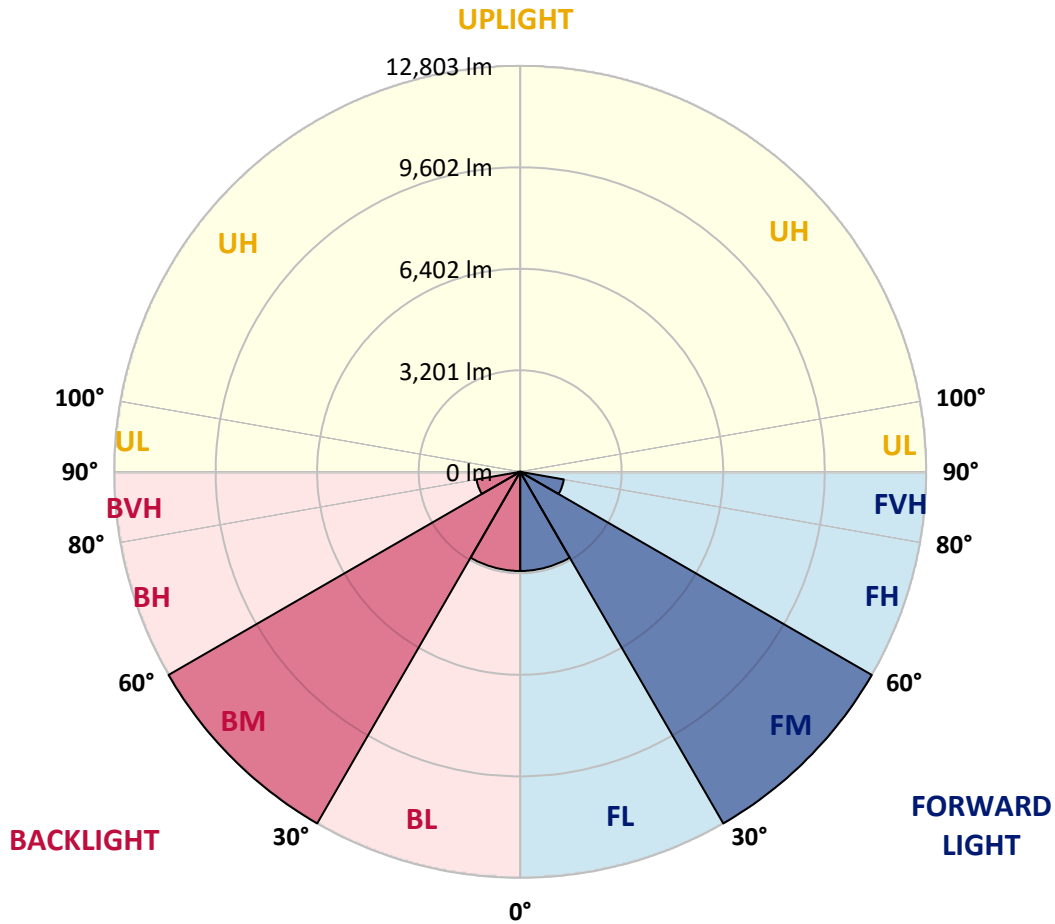


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3126.2	9.0			
FM (30°-60°)	12803.0	36.8			
FH (60°-80°)	1397.9	4.0			G1/1800
FVH (80°-90°)	66.0	0.2			G1/100
BL (0°-30°)	3126.2	9.0	B4/5000		
BM (30°-60°)	12803.0	36.8	B5		
BH (60°-80°)	1397.9	4.0	B3/2500		G1/1800
BVH (80°-90°)	66.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G1**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6351.4	6351.4	6351.4	6351.4	6351.4	6351.4	6351.4	6351.4	6351.4	6351.4	6351.4
2.5°	6427.1	6397.6	6347.2	6385.0	6414.5	6351.4	6376.6	6389.2	6380.8	6347.2	6359.8
5°	6519.5	6502.7	6460.7	6490.1	6452.3	6452.3	6427.1	6393.4	6443.9	6435.5	6456.5
7.5°	6519.5	6498.5	6582.6	6527.9	6544.8	6544.8	6502.7	6469.1	6494.3	6456.5	6435.5
10°	6649.8	6679.3	6641.4	6654.1	6645.6	6675.1	6612.0	6591.0	6570.0	6557.4	6532.2
12.5°	6805.4	6784.4	6797.0	6788.6	6818.0	6742.3	6704.5	6658.3	6696.1	6641.4	6679.3
15°	6931.5	6918.9	6931.5	6965.1	6935.7	6931.5	6864.2	6818.0	6759.1	6771.7	6712.9
17.5°	7103.8	7091.2	7095.4	7124.8	7120.6	7099.6	7049.2	6960.9	6939.9	6906.3	6868.4
20°	7360.2	7339.2	7330.8	7343.4	7364.4	7381.2	7280.4	7246.7	7175.3	7120.6	7057.6
22.5°	7578.8	7570.4	7604.0	7549.4	7595.6	7646.1	7549.4	7532.6	7356.0	7326.6	7259.3
25°	7881.5	7868.8	7847.8	7927.7	7982.3	7978.1	7885.7	7793.2	7658.7	7625.0	7625.0
27.5°	8200.9	8129.5	8238.8	8259.8	8356.4	8385.9	8306.0	8171.5	8045.4	7973.9	7990.7
30°	8600.2	8533.0	8558.2	8709.5	8835.6	8944.9	8743.2	8545.6	8369.1	8243.0	8221.9
32.5°	8999.6	8932.3	9008.0	9155.1	9407.3	9571.2	9373.7	9029.0	8823.0	8638.1	8675.9
35°	9323.2	9373.7	9495.6	9718.4	9979.0	10243.8	9928.5	9663.7	9369.5	9163.5	9192.9
37.5°	9844.5	10000.0	10096.7	10353.1	10723.0	10996.2	10668.3	10323.7	10008.4	9739.4	9646.9
40°	10525.4	10630.5	10739.8	11042.4	11479.6	11752.8	11441.8	10992.0	10681.0	10403.5	10390.9
42.5°	11273.6	11374.5	11488.0	11857.9	12118.5	12324.5	12038.7	11799.1	11454.4	11235.8	11223.2
45°	12143.8	12072.3	12198.4	12442.2	12660.8	12795.3	12610.3	12492.6	12244.6	12042.9	12021.9
47.5°	12723.8	12660.8	12887.8	13106.3	13140.0	12992.8	13030.7	13140.0	12879.4	12547.3	12652.4
50°	13060.1	13060.1	13211.4	13413.2	13350.1	13161.0	13459.4	13467.8	13207.2	12913.0	12913.0
52.5°	12475.8	12606.1	13034.9	13694.8	13905.0	13959.6	13892.4	13606.6	12925.6	12324.5	12295.1
55°	10870.1	10840.7	11420.8	12934.0	14157.2	14804.5	13947.0	12631.4	11248.4	10571.7	10504.4
57.5°	7070.2	7103.8	7969.7	9512.4	11719.2	12925.6	11479.6	9630.1	7969.7	7036.6	7124.8
60°	3182.0	3295.5	3820.9	4972.7	6868.4	7852.0	6885.2	5224.9	4010.1	3480.5	3526.7
62.5°	1828.5	1849.5	1870.5	2219.4	2925.6	3459.4	3039.1	2345.5	2068.1	1975.6	1975.6
65°	1542.7	1530.1	1534.3	1563.7	1639.3	1748.6	1702.4	1639.3	1647.8	1639.3	1626.7
67.5°	1311.5	1328.3	1315.7	1336.7	1340.9	1357.7	1387.1	1412.4	1416.6	1425.0	1416.6
70°	1076.1	1080.3	1088.7	1105.5	1109.7	1122.3	1164.4	1185.4	1198.0	1198.0	1214.8
72.5°	823.9	819.7	828.1	844.9	865.9	870.1	907.9	937.4	954.2	933.2	937.4
75°	542.2	546.4	559.1	571.7	601.1	630.5	643.1	672.6	676.8	685.2	664.1
77.5°	323.7	332.1	344.7	369.9	395.1	420.3	449.8	470.8	479.2	470.8	445.6
80°	210.2	210.2	227.0	248.0	277.4	298.4	315.3	332.1	344.7	332.1	323.7
82.5°	130.3	130.3	151.3	176.5	197.6	210.2	235.4	256.4	269.0	260.6	248.0
85°	67.3	71.5	88.3	109.3	126.1	134.5	130.3	117.7	105.1	100.9	92.5
87.5°	21.0	21.0	25.2	25.2	21.0	21.0	25.2	21.0	25.2	25.2	25.2
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)