

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: P533530

Luminaire Tested: **GALN-SA9A-727-U-5WQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533530
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-727-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 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: 29414 lumens
Efficiency: N/A
Efficacy: 107.4 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

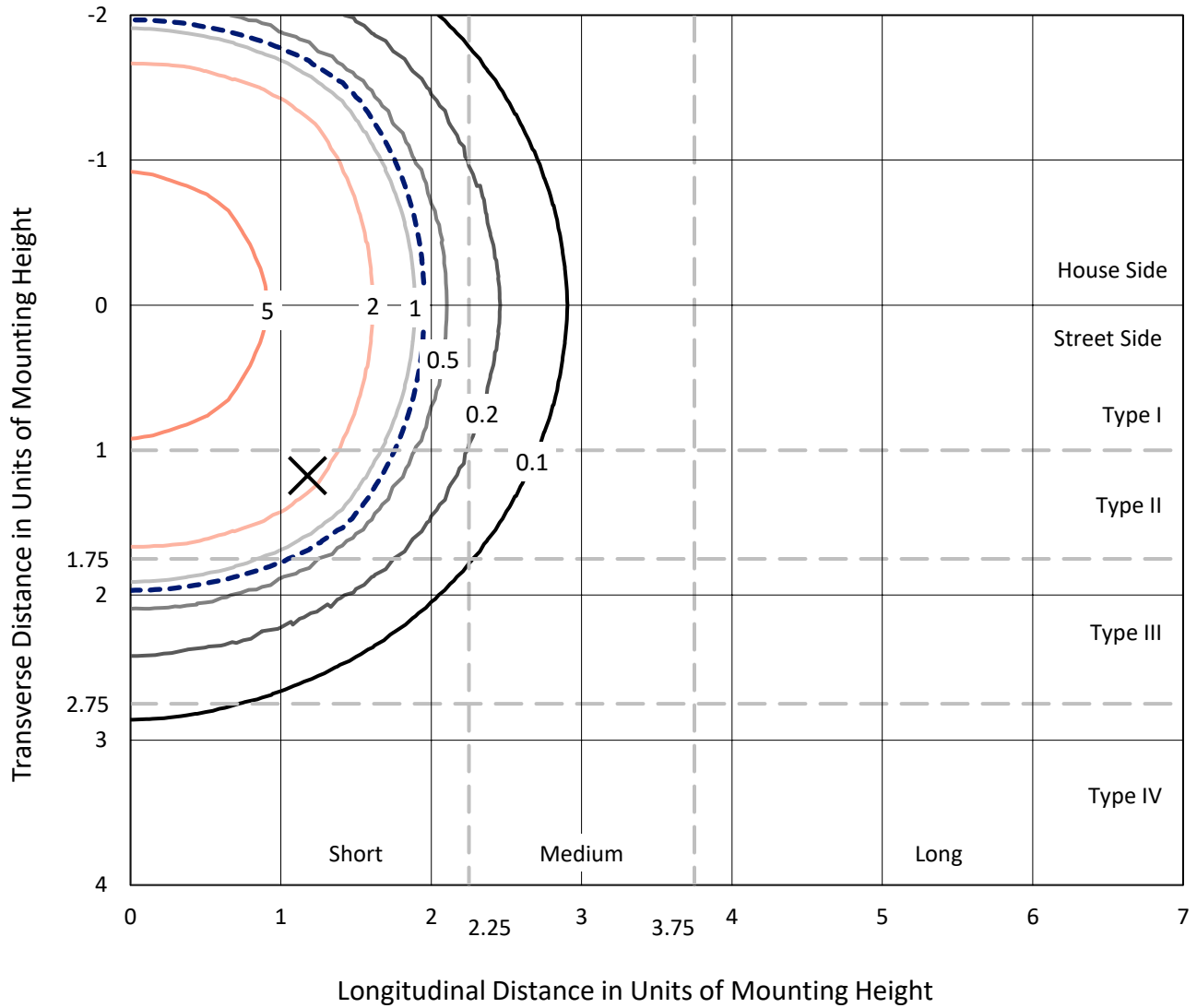
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

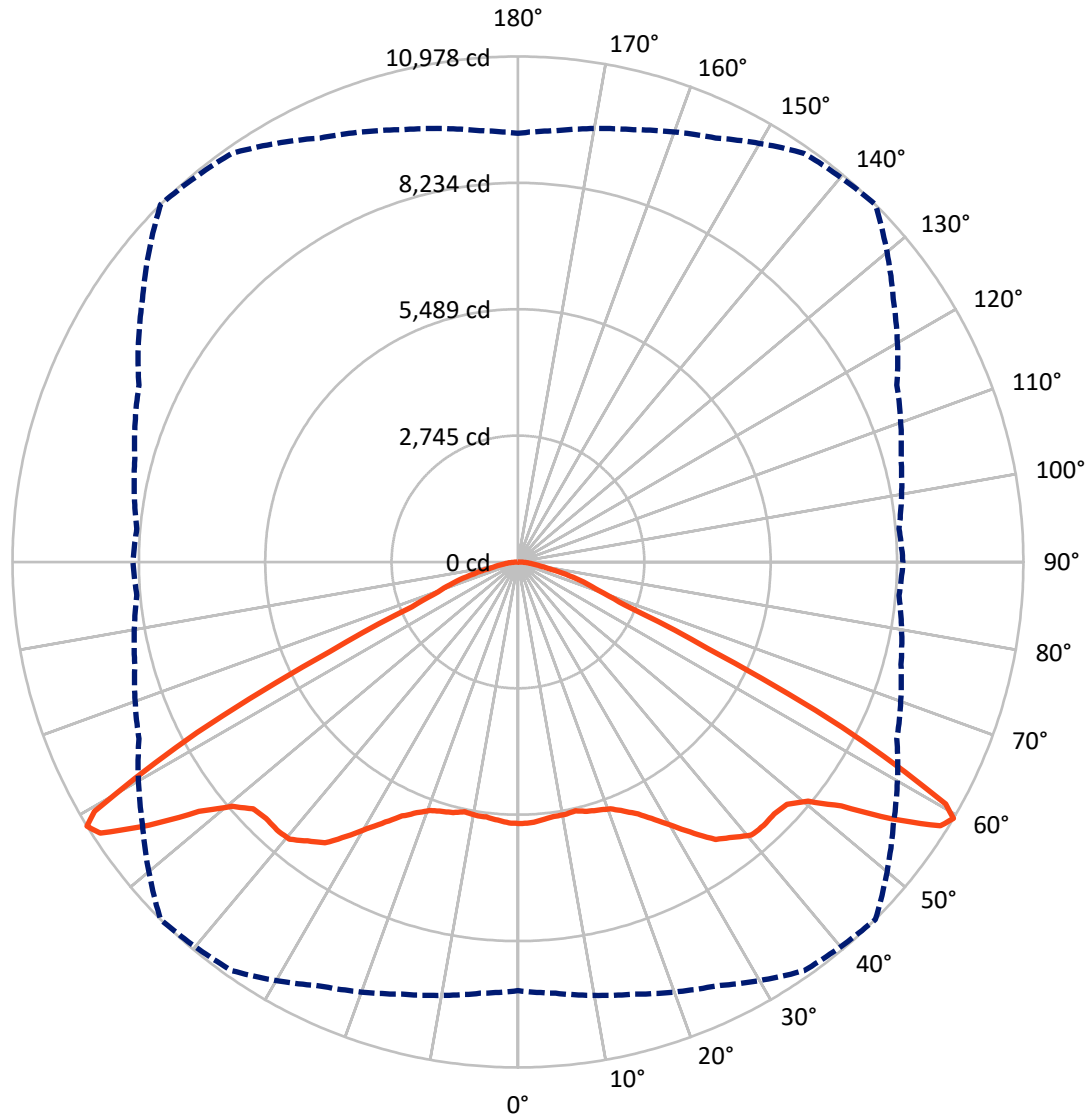
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 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	14707.0	0.0	14707.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14707.0	0.0	14707.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	29414.0	0.0	29414.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	535.6	1.8
10°-20°	1592.7	5.4
20°-30°	2781.0	9.5
30°-40°	4441.7	15.1
40°-50°	6050.5	20.6
50°-60°	8181.9	27.8
60°-70°	4487.0	15.3
70°-80°	1147.9	3.9
80°-90°	195.8	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°	29414.0	100.0
0°-180°	29414.0	100.0



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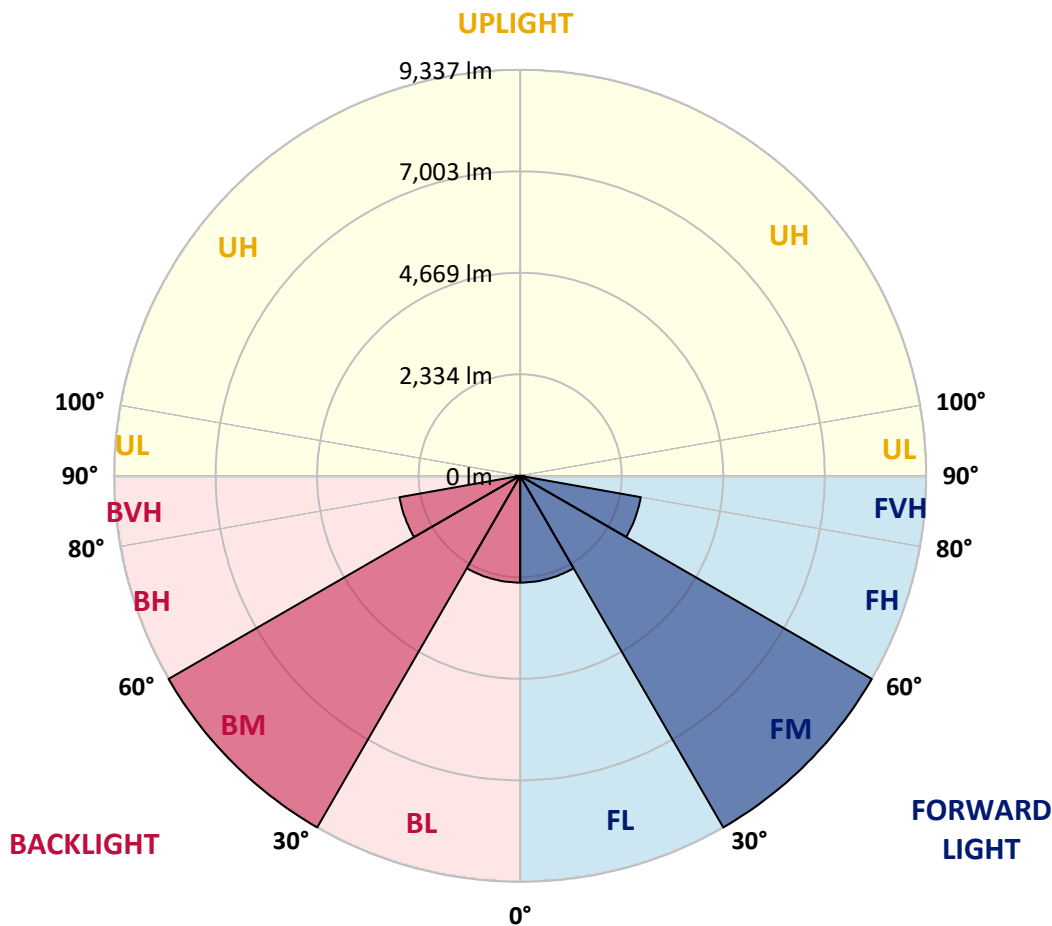
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2454.6	8.3			
FM (30°-60°)	9337.0	31.7			
FH (60°-80°)	2817.4	9.6			G2/5000
FVH (80°-90°)	97.9	0.3			G1/100
BL (0°-30°)	2454.6	8.3	B3/2500		
BM (30°-60°)	9337.0	31.7	B5		
BH (60°-80°)	2817.4	9.6	B4/5000		G2/5000
BVH (80°-90°)	97.9	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°	5681.4	5681.4	5681.4	5681.4	5681.4	5681.4	5681.4	5681.4	5681.4	5681.4	5681.4
2.5°	5647.4	5688.9	5658.8	5685.1	5681.4	5670.1	5651.2	5639.9	5624.8	5647.4	5609.7
5°	5624.8	5658.8	5692.7	5647.4	5647.4	5624.8	5613.5	5590.9	5590.9	5587.1	5583.4
7.5°	5662.5	5628.6	5613.5	5621.1	5628.6	5579.6	5613.5	5568.3	5530.6	5557.0	5587.1
10°	5628.6	5643.7	5587.1	5613.5	5572.0	5579.6	5557.0	5587.1	5545.7	5545.7	5545.7
12.5°	5662.5	5621.1	5639.9	5621.1	5609.7	5545.7	5575.8	5541.9	5538.1	5575.8	5541.9
15°	5730.4	5662.5	5647.4	5609.7	5621.1	5621.1	5590.9	5594.7	5553.2	5575.8	5583.4
17.5°	5707.8	5670.1	5658.8	5613.5	5651.2	5662.5	5606.0	5568.3	5594.7	5590.9	5587.1
20°	5726.6	5741.7	5730.4	5737.9	5753.0	5722.8	5670.1	5617.3	5583.4	5632.4	5628.6
22.5°	5847.3	5832.2	5824.6	5817.1	5843.5	5873.6	5802.0	5719.1	5719.1	5753.0	5768.1
25°	5945.3	5941.5	5937.7	5971.7	6062.1	6062.1	5971.7	5866.1	5839.7	5862.3	5843.5
27.5°	6088.5	6130.0	6114.9	6175.2	6307.2	6337.4	6216.7	6092.3	6020.7	5994.3	6028.2
30°	6416.5	6367.5	6378.8	6442.9	6559.8	6657.8	6473.1	6341.1	6243.1	6239.3	6254.4
32.5°	6635.2	6672.9	6706.8	6767.1	6951.9	7027.3	6804.8	6589.9	6529.6	6495.7	6507.0
35°	7072.5	7038.6	7031.0	7091.4	7276.1	7400.5	7121.5	6933.0	6853.8	6929.2	6929.2
37.5°	7487.2	7393.0	7321.3	7400.5	7570.1	7585.2	7347.7	7245.9	7204.5	7291.2	7287.4
40°	7683.2	7675.7	7509.8	7555.1	7781.3	7803.9	7581.5	7460.8	7453.3	7566.4	7679.5
42.5°	7886.8	7815.2	7649.3	7679.5	7819.0	7826.5	7615.4	7581.5	7664.4	7773.7	7781.3
45°	7920.8	7860.4	7754.9	7679.5	7781.3	7803.9	7679.5	7702.1	7709.6	7841.6	7841.6
47.5°	7988.6	7981.1	7920.8	7864.2	7883.1	7864.2	7785.0	7819.0	7932.1	7996.2	7966.0
50°	8177.1	8097.9	8158.3	8109.3	8113.0	8165.8	8094.2	8128.1	8105.5	8048.9	8011.2
52.5°	8591.8	8554.1	8606.9	8640.8	8678.5	8799.2	8716.2	8535.3	8365.6	8214.8	8211.0
55°	9198.8	9225.2	9327.0	9500.4	9647.4	9839.7	9440.1	9006.5	8735.1	8497.6	8512.6
57.5°	9771.8	9753.0	9892.5	10288.3	10718.1	10816.1	10031.9	9413.7	8972.6	8821.8	8757.7
59°	9311.9	9402.4	9719.0	10160.1	10835.0	10978.2	9952.8	9081.9	8614.4	8309.1	8361.8
60°	8588.0	8622.0	8904.7	9519.2	10431.6	10676.6	9421.2	8569.2	7947.1	7770.0	7849.1
62.5°	6069.7	6043.3	6246.9	6748.3	7566.4	7898.1	7004.6	6405.2	6013.1	5817.1	5862.3
65°	3227.1	3347.8	3430.7	3743.6	4177.2	4527.8	4158.3	3898.2	3679.5	3517.4	3513.6
67.5°	2179.1	2164.0	2182.8	2254.5	2401.5	2499.5	2492.0	2360.0	2341.2	2311.0	2344.9
70°	1836.0	1828.4	1794.5	1794.5	1824.7	1847.3	1873.7	1888.8	1918.9	1956.6	1952.9
72.5°	1489.1	1470.3	1447.7	1436.4	1474.1	1485.4	1519.3	1534.4	1560.8	1557.0	1590.9
75°	984.0	984.0	1010.4	1040.5	1051.8	1074.4	1078.2	1123.5	1123.5	1131.0	1100.8
77.5°	550.4	535.3	554.2	584.3	610.7	652.2	693.7	727.6	746.5	738.9	738.9
80°	320.4	320.4	339.3	373.2	407.2	444.9	475.0	501.4	520.3	512.7	497.6
82.5°	199.8	199.8	218.7	252.6	279.0	301.6	343.1	377.0	399.6	392.1	373.2
85°	101.8	101.8	124.4	147.0	181.0	196.0	192.3	177.2	173.4	154.6	154.6
87.5°	26.4	26.4	37.7	41.5	33.9	37.7	37.7	37.7	37.7	37.7	41.5
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)