

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: P532282

Luminaire Tested: **GALN-SA7C-827-U-5WQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532282
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-SA7C-827-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 1050mA 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: 30539 lumens
Efficiency: N/A
Efficacy: 81.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

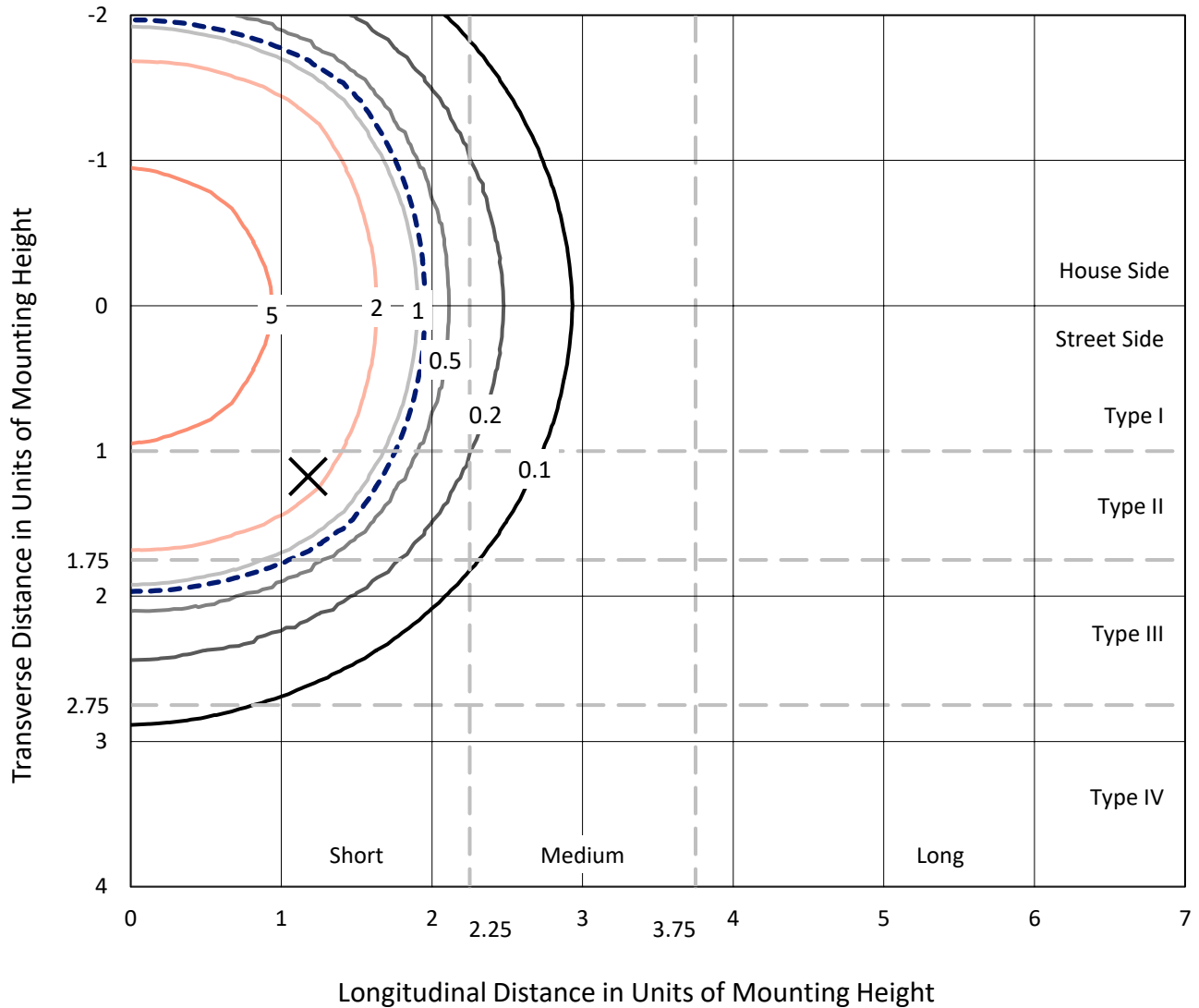
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

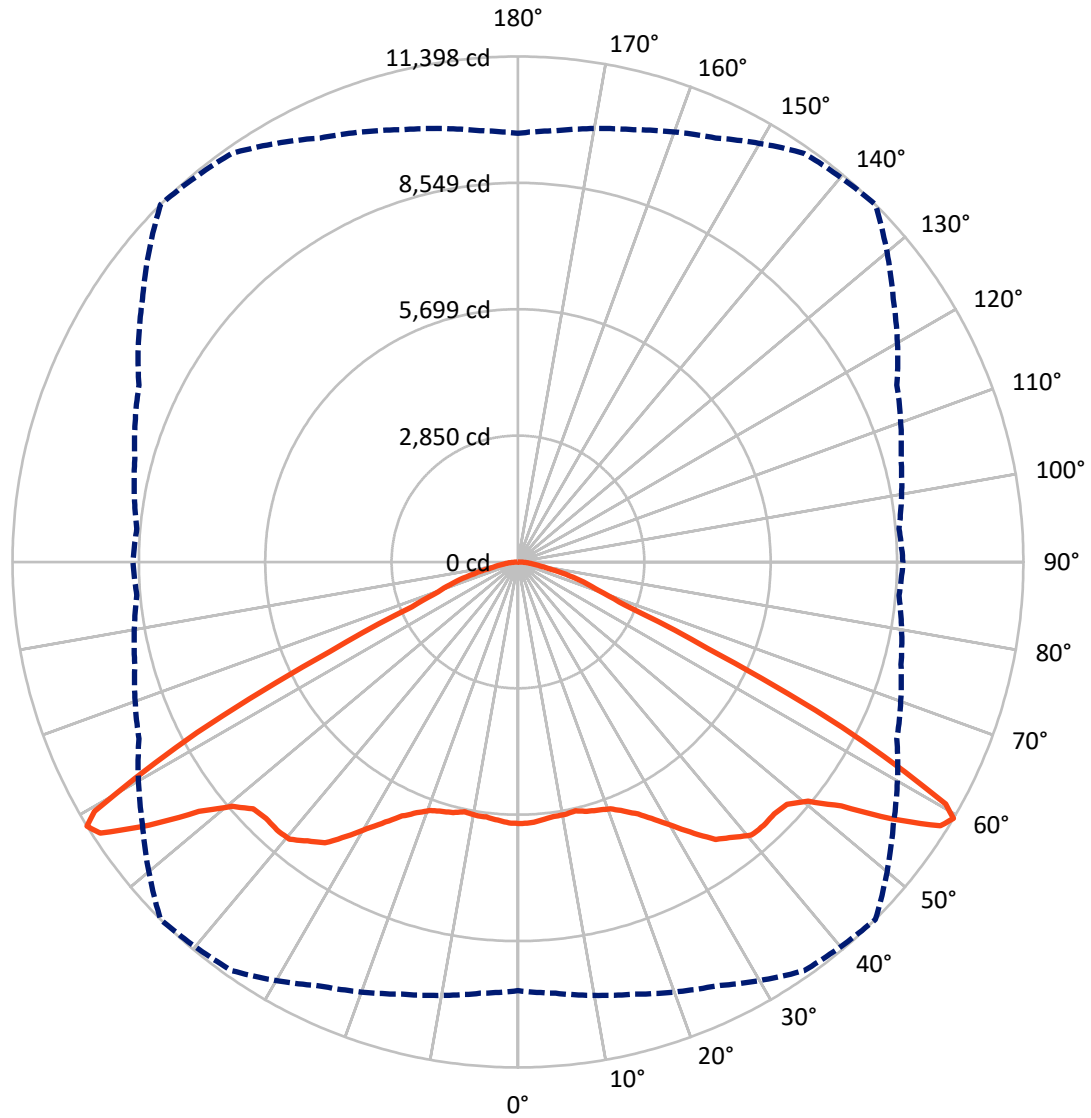
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 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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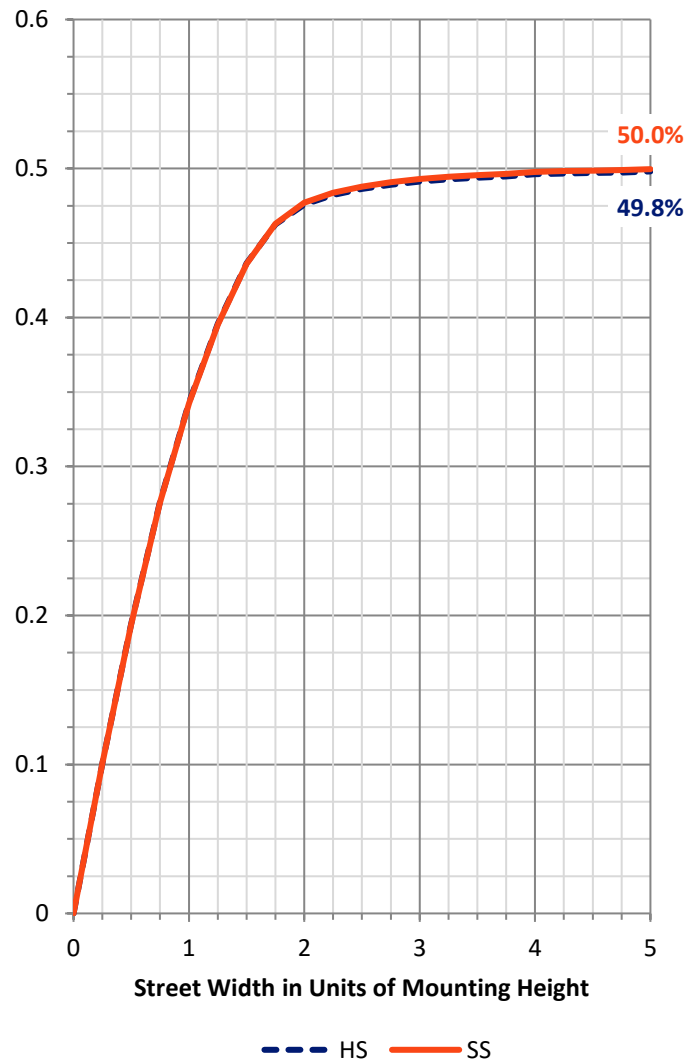
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15269.5	0.0	15269.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15269.5	0.0	15269.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	30539.0	0.0	30539.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	556.1	1.8
10°-20°	1653.6	5.4
20°-30°	2887.4	9.5
30°-40°	4611.6	15.1
40°-50°	6281.9	20.6
50°-60°	8494.8	27.8
60°-70°	4658.6	15.3
70°-80°	1191.8	3.9
80°-90°	203.3	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°	30539.0	100.0
0°-180°	30539.0	100.0

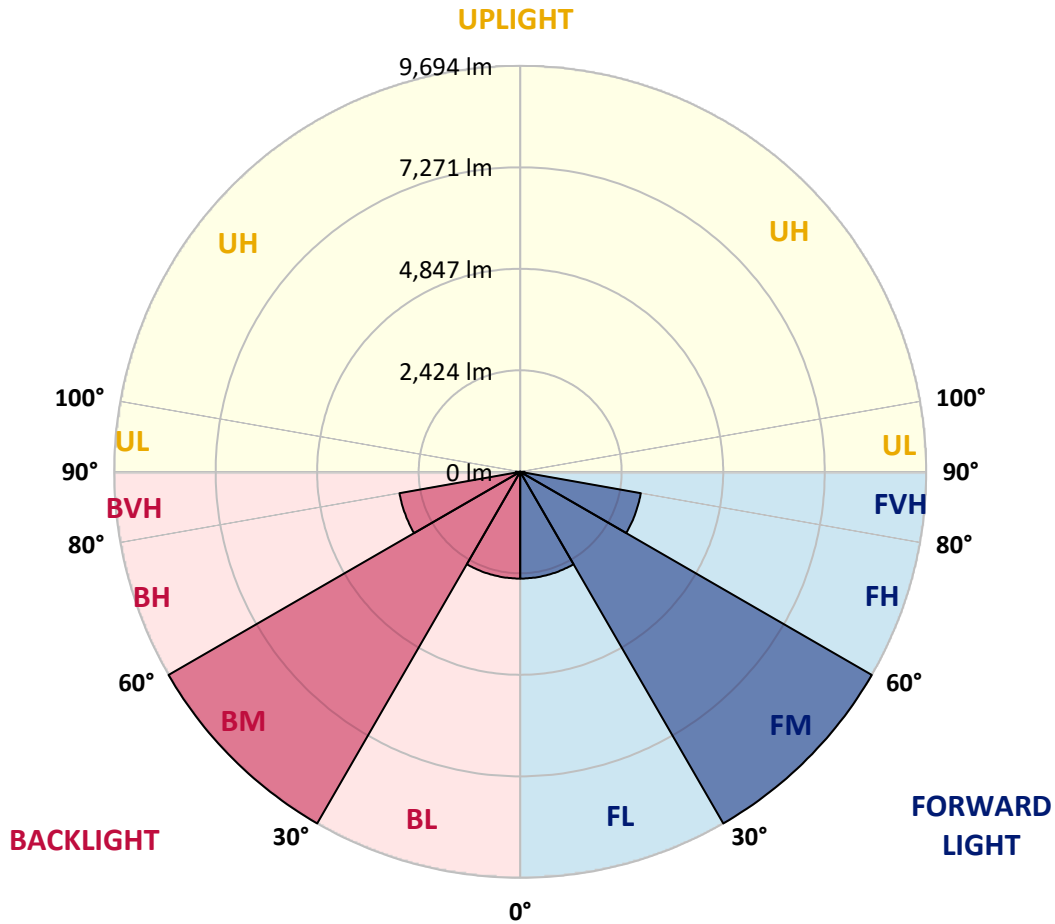


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2548.5	8.3			
FM (30°-60°)	9694.2	31.7			
FH (60°-80°)	2925.2	9.6			G2/5000
FVH (80°-90°)	101.6	0.3			G2/225
BL (0°-30°)	2548.5	8.3	B4/5000		
BM (30°-60°)	9694.2	31.7	B5		
BH (60°-80°)	2925.2	9.6	B4/5000		G2/5000
BVH (80°-90°)	101.6	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°	5898.7	5898.7	5898.7	5898.7	5898.7	5898.7	5898.7	5898.7	5898.7	5898.7	5898.7
2.5°	5863.4	5906.5	5875.2	5902.6	5898.7	5886.9	5867.4	5855.6	5840.0	5863.4	5824.3
5°	5840.0	5875.2	5910.4	5863.4	5863.4	5840.0	5828.2	5804.7	5804.7	5800.8	5796.9
7.5°	5879.1	5843.9	5828.2	5836.0	5843.9	5793.0	5828.2	5781.2	5742.1	5769.5	5800.8
10°	5843.9	5859.5	5800.8	5828.2	5785.2	5793.0	5769.5	5800.8	5757.8	5757.8	5757.8
12.5°	5879.1	5836.0	5855.6	5836.0	5824.3	5757.8	5789.1	5753.8	5749.9	5789.1	5753.8
15°	5949.6	5879.1	5863.4	5824.3	5836.0	5836.0	5804.7	5808.6	5765.6	5789.1	5796.9
17.5°	5926.1	5886.9	5875.2	5828.2	5867.4	5879.1	5820.4	5781.2	5808.6	5804.7	5800.8
20°	5945.6	5961.3	5949.6	5957.4	5973.0	5941.7	5886.9	5832.1	5796.9	5847.8	5843.9
22.5°	6070.9	6055.2	6047.4	6039.6	6067.0	6098.3	6023.9	5937.8	5937.8	5973.0	5988.7
25°	6172.7	6168.8	6164.8	6200.1	6294.0	6294.0	6200.1	6090.5	6063.1	6086.6	6067.0
27.5°	6321.4	6364.5	6348.8	6411.4	6548.4	6579.7	6454.5	6325.3	6251.0	6223.6	6258.8
30°	6661.9	6611.1	6622.8	6689.3	6810.7	6912.4	6720.7	6583.7	6481.9	6478.0	6493.6
32.5°	6889.0	6928.1	6963.3	7026.0	7217.8	7296.0	7065.1	6842.0	6779.4	6744.1	6755.9
35°	7343.0	7307.8	7300.0	7362.6	7554.4	7683.5	7393.9	7198.2	7116.0	7194.3	7194.3
37.5°	7773.6	7675.7	7601.3	7683.5	7859.7	7875.3	7628.7	7523.1	7480.0	7570.0	7566.1
40°	7977.1	7969.3	7797.1	7844.0	8078.9	8102.4	7871.4	7746.2	7738.3	7855.8	7973.2
42.5°	8188.5	8114.1	7941.9	7973.2	8118.0	8125.8	7906.7	7871.4	7957.5	8071.0	8078.9
45°	8223.7	8161.1	8051.5	7973.2	8078.9	8102.4	7973.2	7996.7	8004.5	8141.5	8141.5
47.5°	8294.2	8286.3	8223.7	8165.0	8184.6	8165.0	8082.8	8118.0	8235.4	8302.0	8270.7
50°	8489.9	8407.7	8470.3	8419.4	8423.3	8478.1	8403.8	8439.0	8415.5	8356.8	8317.6
52.5°	8920.4	8881.3	8936.1	8971.3	9010.5	9135.7	9049.6	8861.7	8685.6	8529.0	8525.1
55°	9550.6	9578.0	9683.7	9863.7	10016.4	10216.0	9801.1	9351.0	9069.2	8822.6	8838.2
57.5°	10145.6	10126.0	10270.8	10681.8	11128.0	11229.8	10415.6	9773.7	9315.8	9159.2	9092.6
59°	9668.0	9762.0	10090.8	10548.7	11249.4	11398.1	10333.4	9429.3	8943.9	8626.9	8681.7
60°	8916.5	8951.7	9245.3	9883.3	10830.5	11085.0	9781.5	8896.9	8251.1	8067.1	8149.3
62.5°	6301.8	6274.4	6485.8	7006.4	7855.8	8200.2	7272.6	6650.2	6243.1	6039.6	6086.6
65°	3350.5	3475.8	3561.9	3886.8	4336.9	4700.9	4317.3	4047.3	3820.2	3651.9	3648.0
67.5°	2262.4	2246.7	2266.3	2340.7	2493.3	2595.1	2587.3	2450.3	2430.7	2399.4	2434.6
70°	1906.2	1898.4	1863.2	1863.2	1894.5	1917.9	1945.3	1961.0	1992.3	2031.5	2027.5
72.5°	1546.1	1526.5	1503.0	1491.3	1530.4	1542.2	1577.4	1593.1	1620.5	1616.6	1651.8
75°	1021.6	1021.6	1049.0	1080.3	1092.1	1115.5	1119.5	1166.4	1166.4	1174.3	1142.9
77.5°	571.5	555.8	575.4	606.7	634.1	677.2	720.2	755.4	775.0	767.2	767.2
80°	332.7	332.7	352.3	387.5	422.7	461.9	493.2	520.6	540.2	532.3	516.7
82.5°	207.5	207.5	227.0	262.3	289.6	313.1	356.2	391.4	414.9	407.1	387.5
85°	105.7	105.7	129.2	152.7	187.9	203.5	199.6	184.0	180.1	160.5	160.5
87.5°	27.4	27.4	39.1	43.1	35.2	39.1	39.1	39.1	39.1	39.1	43.1
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)