

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: P533920

Luminaire Tested: **GALN-SA9B-827-U-5WQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533920
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-827-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 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: 32171 lumens
Efficiency: N/A
Efficacy: 88.4 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

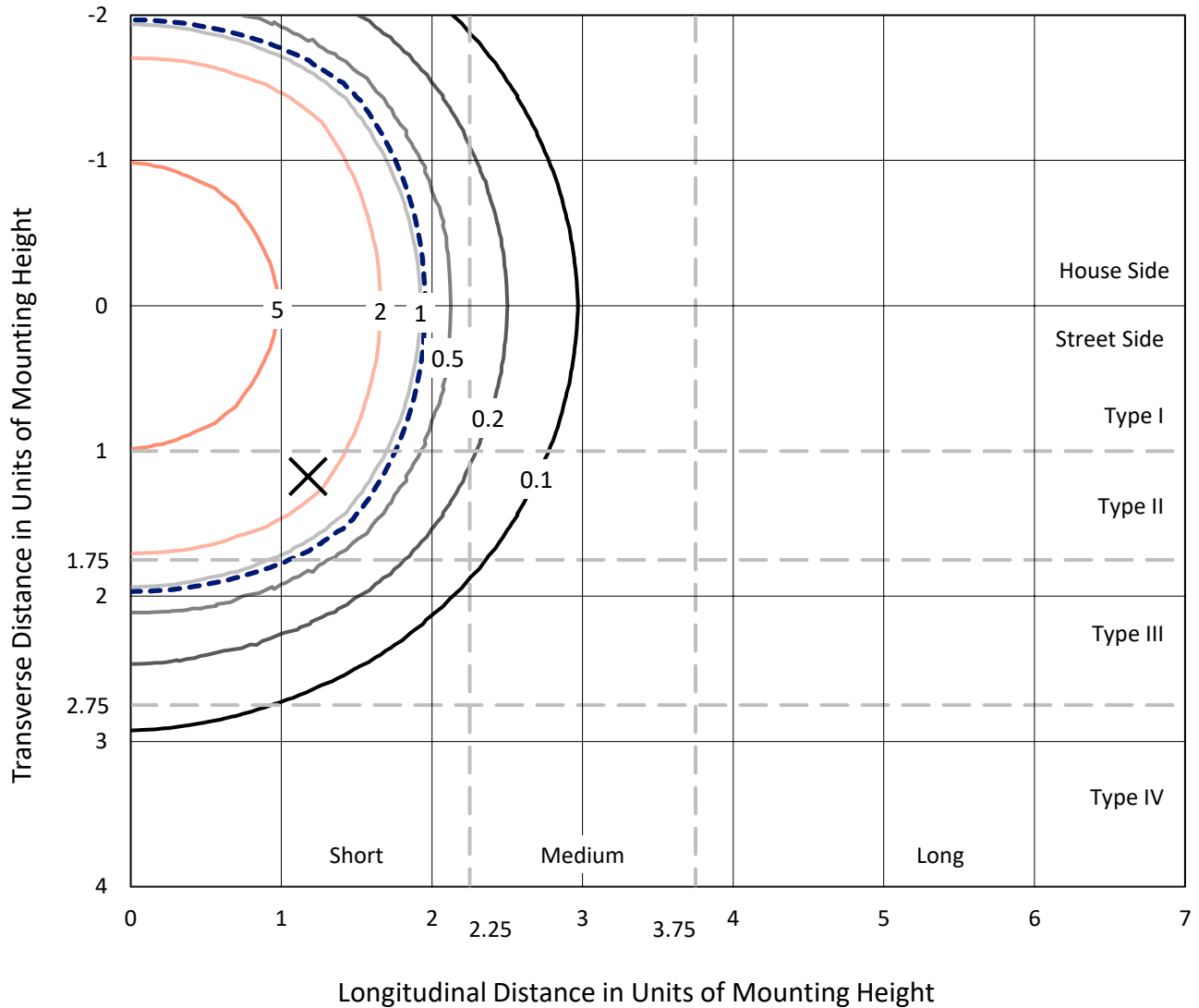
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

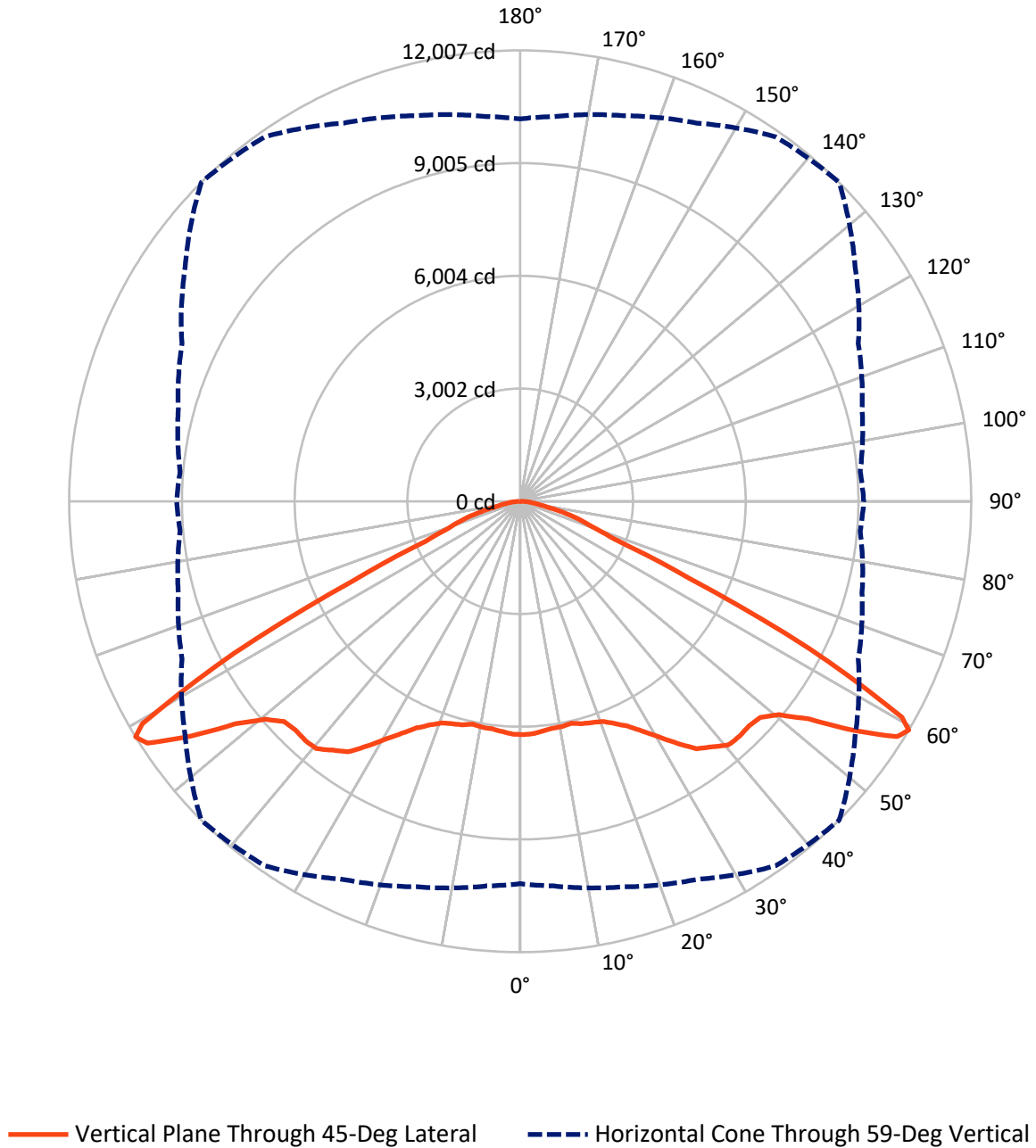
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16085.5	0.0	16085.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16085.5	0.0	16085.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	32171.0	0.0	32171.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	585.8	1.8
10°-20°	1742.0	5.4
20°-30°	3041.7	9.5
30°-40°	4858.0	15.1
40°-50°	6617.6	20.6
50°-60°	8948.8	27.8
60°-70°	4907.5	15.3
70°-80°	1255.5	3.9
80°-90°	214.1	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°	32171.0	100.0
0°-180°	32171.0	100.0

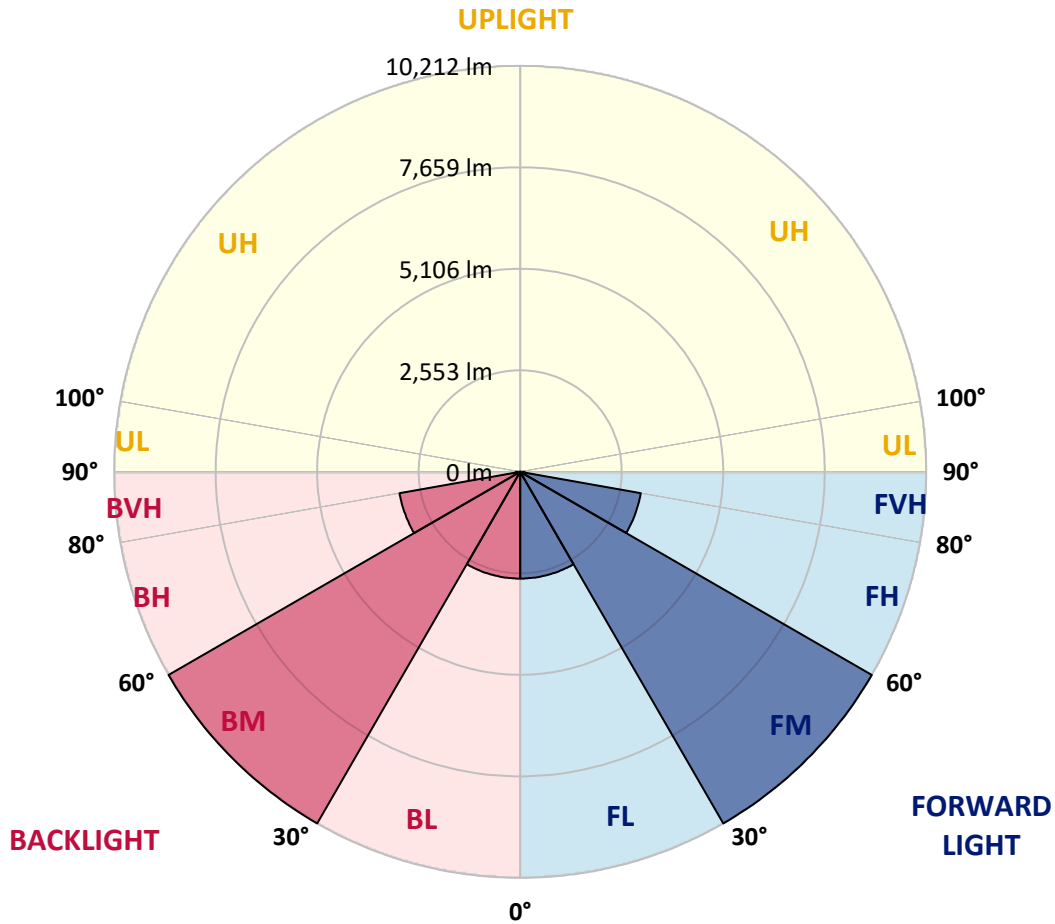


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2684.7	8.3			
FM (30°-60°)	10212.2	31.7			
FH (60°-80°)	3081.5	9.6			G2/5000
FVH (80°-90°)	107.1	0.3			G2/225
BL (0°-30°)	2684.7	8.3	B4/5000		
BM (30°-60°)	10212.2	31.7	B5		
BH (60°-80°)	3081.5	9.6	B4/5000		G2/5000
BVH (80°-90°)	107.1	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°	6213.9	6213.9	6213.9	6213.9	6213.9	6213.9	6213.9	6213.9	6213.9	6213.9	6213.9
2.5°	6176.8	6222.1	6189.2	6218.0	6213.9	6201.5	6180.9	6168.5	6152.0	6176.8	6135.6
5°	6152.0	6189.2	6226.3	6176.8	6176.8	6152.0	6139.7	6114.9	6114.9	6110.8	6106.7
7.5°	6193.3	6156.2	6139.7	6147.9	6156.2	6102.6	6139.7	6090.2	6049.0	6077.8	6110.8
10°	6156.2	6172.7	6110.8	6139.7	6094.3	6102.6	6077.8	6110.8	6065.5	6065.5	6065.5
12.5°	6193.3	6147.9	6168.5	6147.9	6135.6	6065.5	6098.4	6061.3	6057.2	6098.4	6061.3
15°	6267.5	6193.3	6176.8	6135.6	6147.9	6147.9	6114.9	6119.1	6073.7	6098.4	6106.7
17.5°	6242.8	6201.5	6189.2	6139.7	6180.9	6193.3	6131.4	6090.2	6119.1	6114.9	6110.8
20°	6263.4	6279.9	6267.5	6275.7	6292.2	6259.3	6201.5	6143.8	6106.7	6160.3	6156.2
22.5°	6395.3	6378.8	6370.6	6362.3	6391.2	6424.2	6345.8	6255.1	6255.1	6292.2	6308.7
25°	6502.5	6498.4	6494.3	6531.4	6630.4	6630.4	6531.4	6415.9	6387.1	6411.8	6391.2
27.5°	6659.2	6704.6	6688.1	6754.1	6898.4	6931.4	6799.4	6663.3	6585.0	6556.1	6593.2
30°	7018.0	6964.3	6976.7	7046.8	7174.6	7281.8	7079.8	6935.5	6828.3	6824.2	6840.6
32.5°	7257.1	7298.3	7335.5	7401.4	7603.5	7685.9	7442.7	7207.6	7141.7	7104.5	7116.9
35°	7735.4	7698.3	7690.1	7756.0	7958.1	8094.1	7789.0	7582.9	7496.3	7578.7	7578.7
37.5°	8189.0	8085.9	8007.6	8094.1	8279.7	8296.2	8036.4	7925.1	7879.7	7974.6	7970.4
40°	8403.4	8395.2	8213.7	8263.2	8510.6	8535.3	8292.1	8160.1	8151.9	8275.6	8399.3
42.5°	8626.1	8547.7	8366.3	8399.3	8551.8	8560.1	8329.2	8292.1	8382.8	8502.4	8510.6
45°	8663.2	8597.2	8481.7	8399.3	8510.6	8535.3	8399.3	8424.0	8432.3	8576.6	8576.6
47.5°	8737.4	8729.1	8663.2	8601.3	8621.9	8601.3	8514.7	8551.8	8675.5	8745.6	8712.7
50°	8943.6	8857.0	8922.9	8869.3	8873.5	8931.2	8852.8	8890.0	8865.2	8803.4	8762.1
52.5°	9397.1	9355.9	9413.6	9450.7	9492.0	9623.9	9533.2	9335.3	9149.7	8984.8	8980.7
55°	10061.0	10089.9	10201.2	10390.9	10551.7	10762.0	10324.9	9850.7	9553.8	9294.0	9310.5
57.5°	10687.7	10667.1	10819.7	11252.6	11722.7	11829.9	10972.3	10296.0	9813.6	9648.7	9578.6
59°	10184.7	10283.7	10630.0	11112.4	11850.5	12007.2	10885.7	9933.2	9421.9	9087.9	9145.6
60°	9393.0	9430.1	9739.4	10411.5	11409.3	11677.3	10304.3	9372.4	8692.0	8498.2	8584.8
62.5°	6638.6	6609.7	6832.4	7380.8	8275.6	8638.4	7661.2	7005.6	6576.8	6362.3	6411.8
65°	3529.6	3661.5	3752.3	4094.5	4568.7	4952.2	4548.1	4263.6	4024.4	3847.1	3843.0
67.5°	2383.3	2366.8	2387.4	2465.8	2626.6	2733.8	2725.5	2581.2	2560.6	2527.6	2564.7
70°	2008.1	1999.8	1962.7	1962.7	1995.7	2020.4	2049.3	2065.8	2098.8	2140.0	2135.9
72.5°	1628.7	1608.1	1583.4	1571.0	1612.2	1624.6	1661.7	1678.2	1707.1	1702.9	1740.1
75°	1076.2	1076.2	1105.1	1138.0	1150.4	1175.2	1179.3	1228.8	1228.8	1237.0	1204.0
77.5°	602.0	585.5	606.1	639.1	668.0	713.3	758.7	795.8	816.4	808.2	808.2
80°	350.5	350.5	371.1	408.2	445.3	486.6	519.5	548.4	569.0	560.8	544.3
82.5°	218.5	218.5	239.2	276.3	305.1	329.9	375.2	412.3	437.1	428.8	408.2
85°	111.3	111.3	136.1	160.8	197.9	214.4	210.3	193.8	189.7	169.1	169.1
87.5°	28.9	28.9	41.2	45.4	37.1	41.2	41.2	41.2	41.2	41.2	45.4
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)