

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: P533534

Luminaire Tested: **GALN-SA9A-727-U-RW-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533534
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-8)
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-RW-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30381 lumens
Efficiency: N/A
Efficacy: 110.9 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

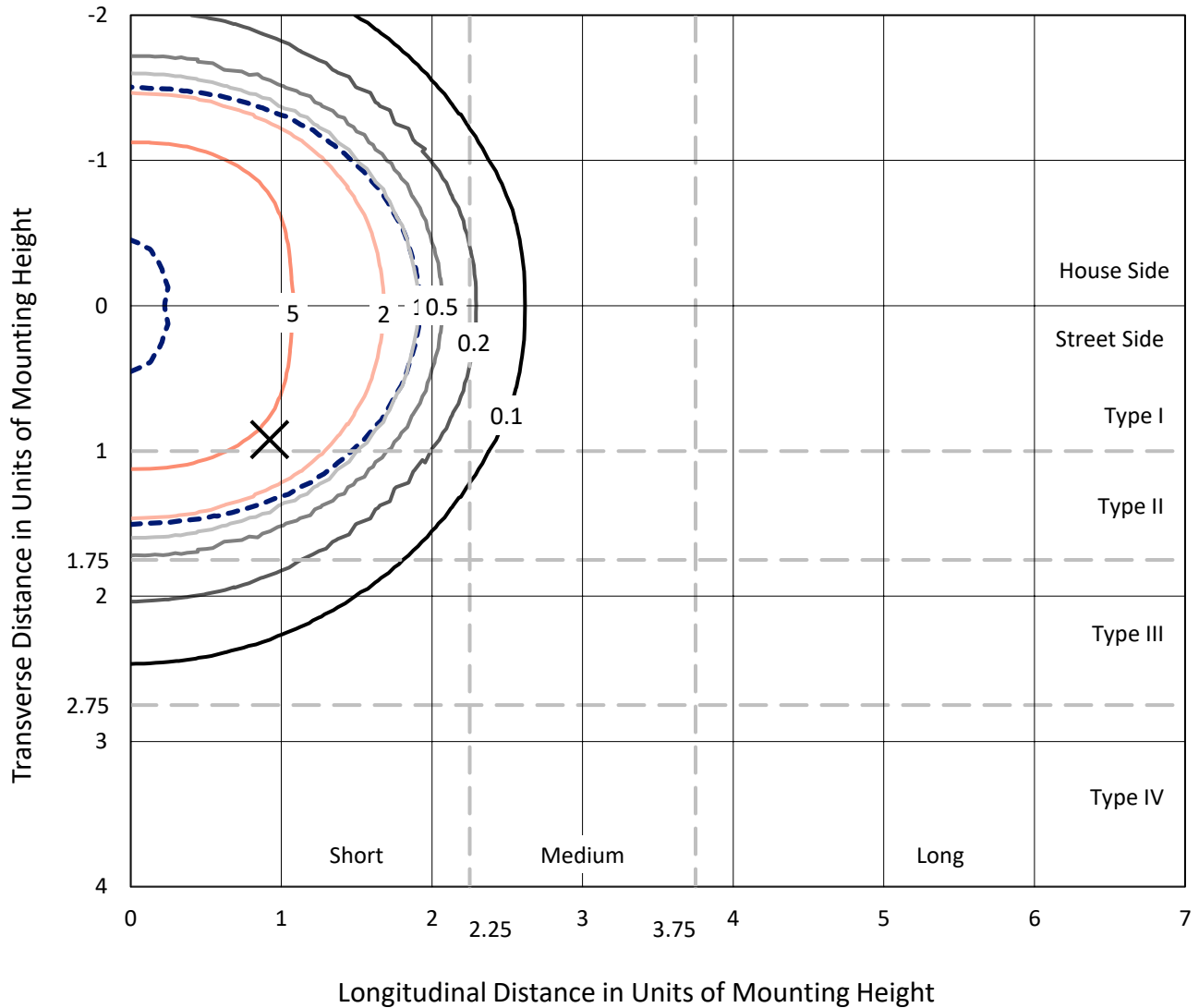
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

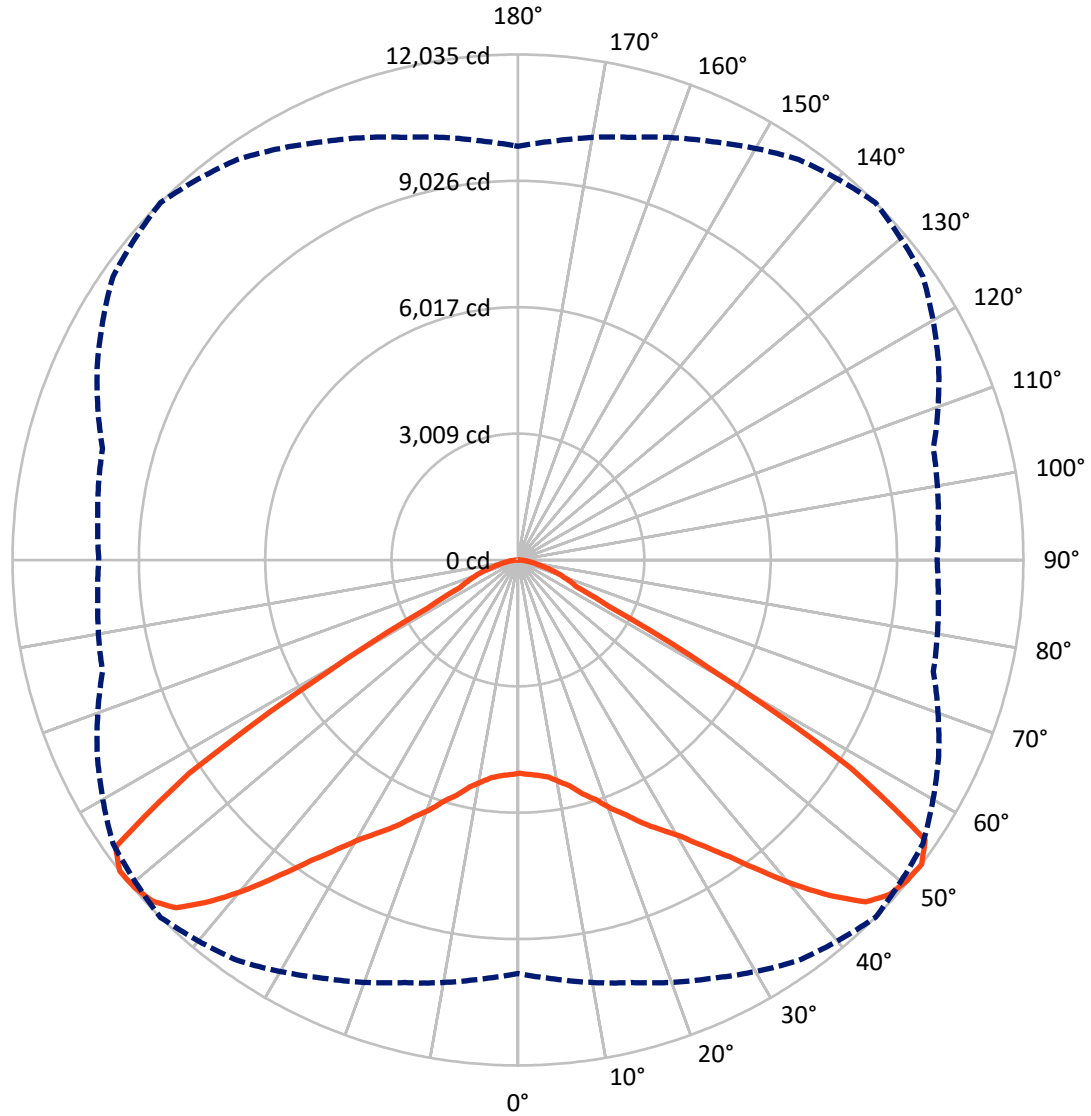
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15190.5	0.0	15190.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15190.5	0.0	15190.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	30381.0	0.0	30381.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	499.0	1.6
10°-20°	1639.5	5.4
20°-30°	3121.4	10.3
30°-40°	5359.7	17.6
40°-50°	8238.1	27.1
50°-60°	8365.6	27.5
60°-70°	2331.4	7.7
70°-80°	687.7	2.3
80°-90°	138.5	0.5
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°	30381.0	100.0
0°-180°	30381.0	100.0

Coefficient of Utilization



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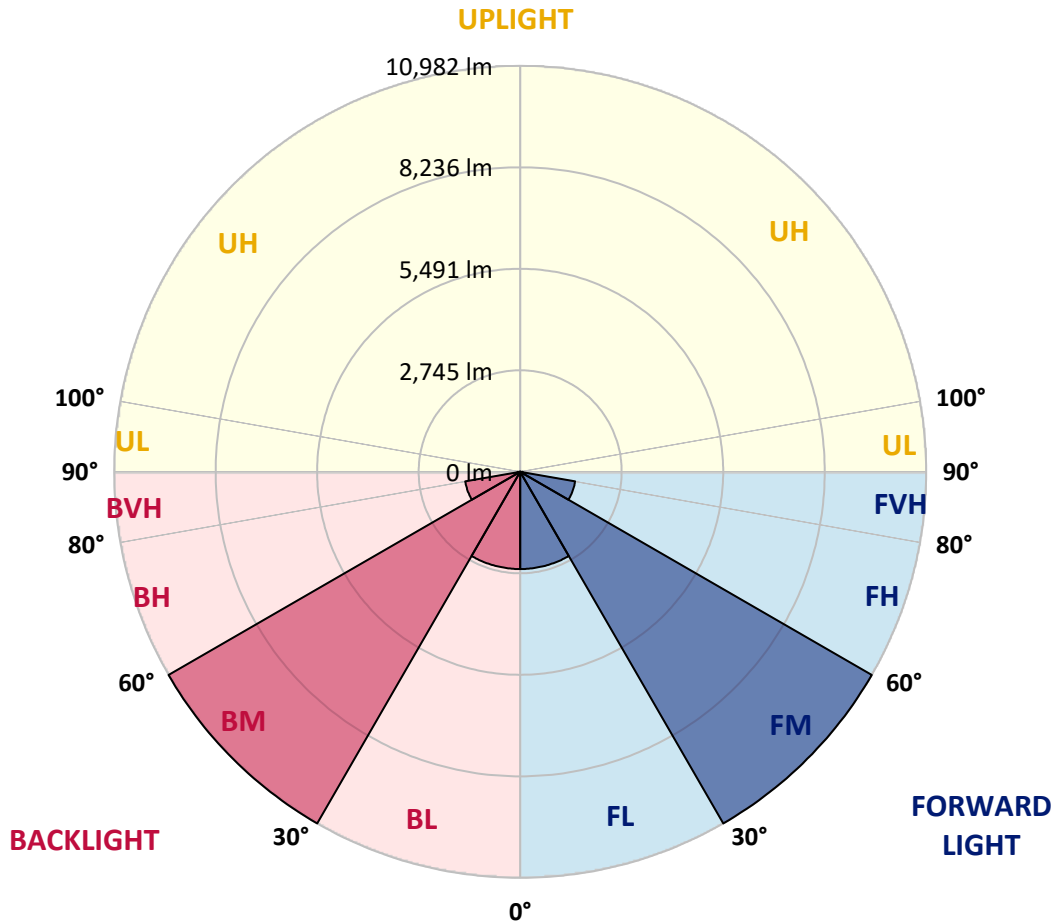
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2630.0	8.7			
FM (30°-60°)	10981.7	36.1			
FH (60°-80°)	1509.6	5.0			G1/1800
FVH (80°-90°)	69.3	0.2			G1/100
BL (0°-30°)	2630.0	8.7	B4/5000		
BM (30°-60°)	10981.7	36.1	B5		
BH (60°-80°)	1509.6	5.0	B3/2500		G1/1800
BVH (80°-90°)	69.3	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°	5078.6	5078.6	5078.6	5078.6	5078.6	5078.6	5078.6	5078.6	5078.6	5078.6	5078.6
2.5°	5089.9	5037.1	5056.0	5067.3	5116.3	5112.5	5101.2	5116.3	5131.4	5135.1	5127.6
5°	5086.1	5048.4	5063.5	5074.8	5123.8	5150.2	5142.7	5206.8	5252.0	5240.7	5297.3
7.5°	5056.0	5078.6	5059.7	5116.3	5157.8	5221.9	5289.7	5350.0	5406.6	5470.7	5482.0
10°	5123.8	5123.8	5157.8	5203.0	5312.3	5361.4	5459.4	5546.1	5655.4	5730.8	5700.7
12.5°	5195.5	5206.8	5206.8	5323.7	5414.1	5523.5	5614.0	5730.8	5885.4	5975.9	6021.2
15°	5267.1	5274.6	5312.3	5470.7	5606.4	5779.9	5862.8	5968.4	6055.1	6224.8	6228.5
17.5°	5331.2	5372.7	5485.8	5663.0	5832.6	5998.5	6130.5	6239.8	6315.2	6383.1	6368.0
20°	5572.5	5602.7	5719.5	5896.7	6149.3	6311.5	6356.7	6375.6	6424.6	6560.3	6518.8
22.5°	5806.3	5817.6	5926.9	6198.4	6375.6	6590.5	6639.5	6628.2	6647.0	6681.0	6741.3
25°	6047.5	6066.4	6217.2	6447.2	6696.0	6952.4	6993.9	6907.2	6880.8	6918.5	6922.3
27.5°	6356.7	6360.5	6552.8	6752.6	7035.4	7276.7	7340.8	7272.9	7148.5	7178.6	7227.7
30°	6748.8	6722.4	6914.7	7201.3	7499.1	7634.8	7744.2	7710.2	7574.5	7548.1	7506.7
32.5°	7201.3	7208.8	7382.2	7695.2	7891.2	8117.4	8234.3	8177.8	8091.0	8045.8	8072.2
35°	7838.4	7872.4	7989.3	8249.4	8566.1	8679.2	8864.0	8743.3	8517.1	8573.6	8622.7
37.5°	8362.5	8460.5	8679.2	8988.4	9176.9	9384.3	9452.1	9290.0	9124.1	9056.2	9218.4
40°	9165.6	9135.4	9376.7	9685.9	9964.9	10172.3	10085.5	9923.4	9512.4	9516.2	9561.5
42.5°	9855.5	9870.6	10055.4	10424.9	10805.7	10933.8	10658.6	10262.7	9806.5	9757.5	9855.5
45°	10436.2	10496.5	10602.1	11096.0	11469.2	11608.7	11099.7	10632.2	10021.4	9817.8	9980.0
47.5°	10643.5	10741.6	10971.6	11424.0	11793.5	11906.6	11499.4	10828.3	10221.3	9889.5	9976.2
50°	10673.7	10639.8	11016.8	11431.5	11755.8	12000.8	11642.7	10971.6	10172.3	9998.8	9972.4
52.5°	9848.0	10013.9	10417.3	10986.6	11642.7	12034.8	11770.9	11050.7	10240.1	10044.1	9980.0
55°	7970.4	7774.3	8509.6	9467.2	10673.7	11763.3	11725.6	11092.2	10281.6	10119.5	10032.7
57.5°	4448.9	4505.5	4920.2	5960.8	7518.0	9327.7	10424.9	10654.8	10262.7	10168.5	10213.7
60°	2058.6	2077.4	2254.6	2741.0	3706.2	5289.7	6733.7	8200.4	8875.3	9011.0	9011.0
62.5°	1534.5	1527.0	1572.2	1658.9	1862.5	2431.8	3246.2	4411.2	5338.7	5987.2	6156.9
65°	1387.5	1383.7	1406.3	1436.5	1451.6	1530.7	1711.7	2069.9	2371.5	2544.9	2514.8
67.5°	1214.0	1210.3	1217.8	1236.7	1263.0	1304.5	1349.8	1425.2	1530.7	1523.2	1504.3
70°	980.3	980.3	991.6	1006.7	1036.8	1085.8	1138.6	1191.4	1281.9	1300.8	1297.0
72.5°	723.9	712.6	735.2	765.4	795.5	855.9	912.4	961.4	1025.5	1044.4	1036.8
75°	460.0	467.5	482.6	516.5	569.3	610.8	671.1	712.6	754.1	769.1	772.9
77.5°	256.4	263.9	290.3	331.8	384.6	429.8	482.6	516.5	542.9	546.7	550.5
80°	154.6	158.4	184.7	222.4	267.7	316.7	358.2	392.1	414.7	403.4	399.7
82.5°	94.3	98.0	120.6	154.6	192.3	230.0	275.2	305.4	328.0	312.9	297.9
85°	49.0	52.8	71.6	94.3	124.4	143.3	143.3	128.2	124.4	116.9	113.1
87.5°	15.1	15.1	18.9	22.6	18.9	22.6	26.4	30.2	30.2	33.9	30.2
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)