

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: P457630

Luminaire Tested: **GALN-SA9A-727-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457630
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9A-727-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34611 lumens
Efficiency: N/A
Efficacy: 126.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

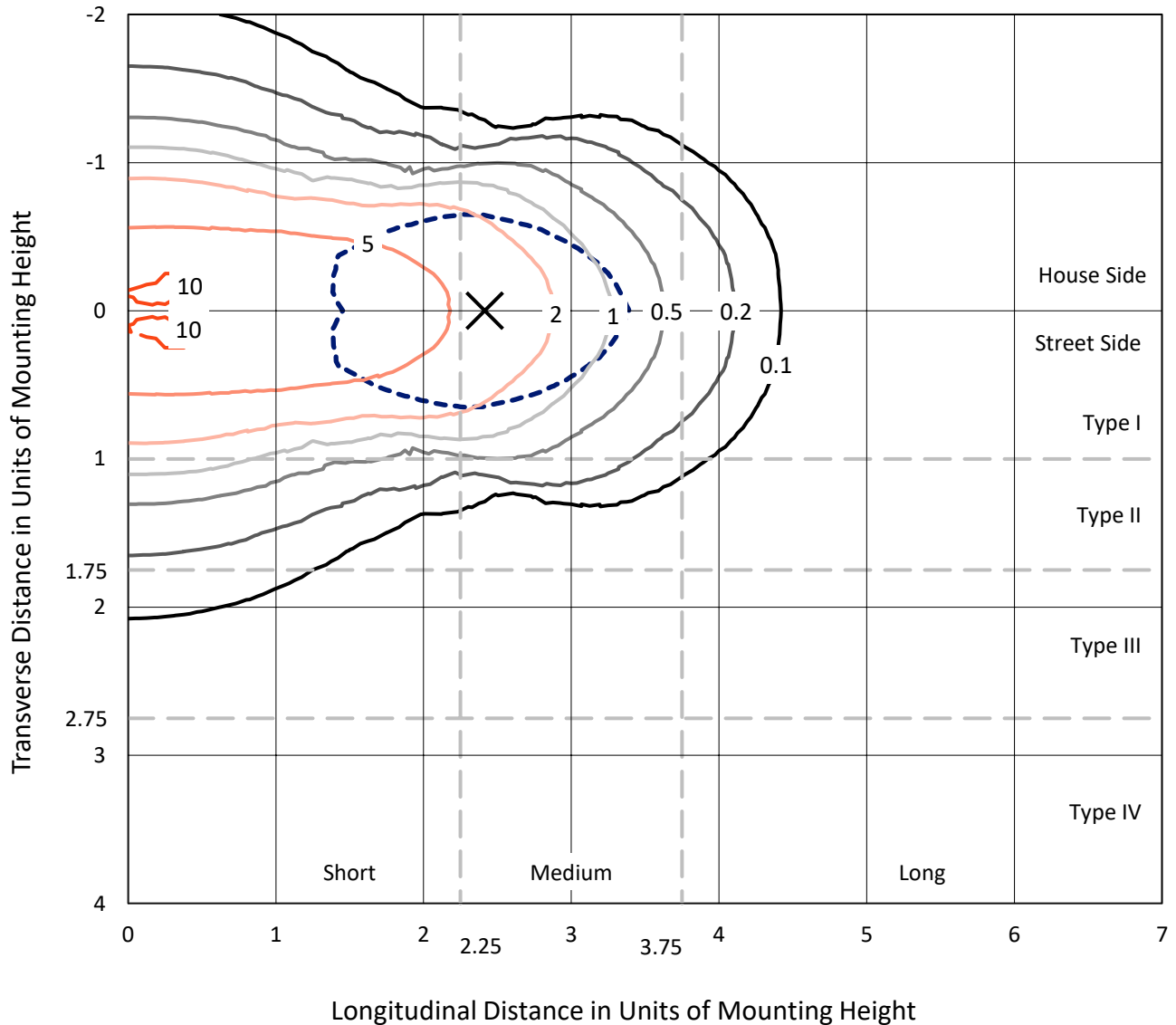
Input Watts (W): 274
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

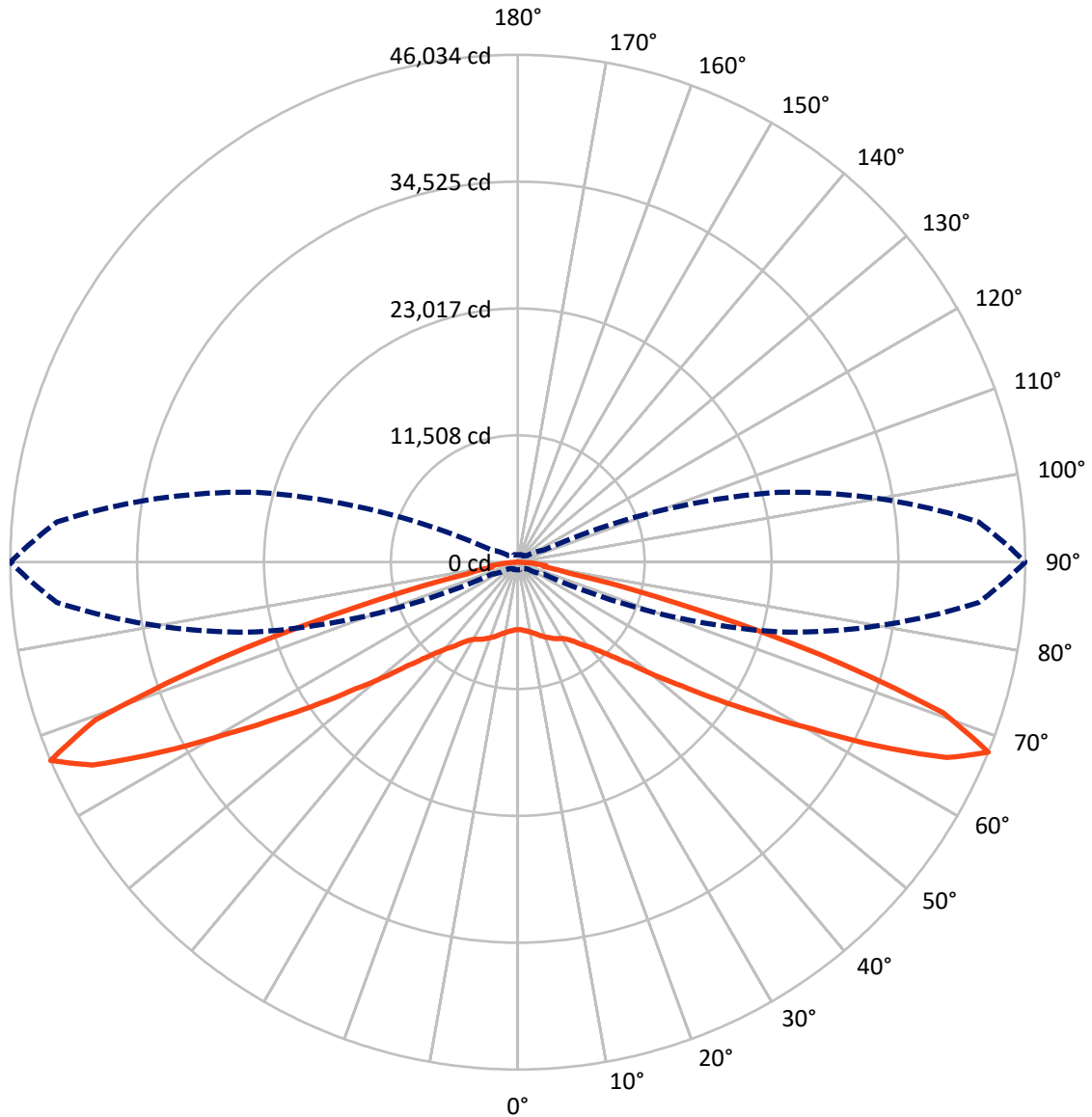
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc
Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17305.5	0.0	17305.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17305.5	0.0	17305.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	34611.0	0.0	34611.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	610.9	1.8
10°-20°	1954.5	5.6
20°-30°	3271.3	9.5
30°-40°	4431.8	12.8
40°-50°	5613.6	16.2
50°-60°	7012.8	20.3
60°-70°	8243.2	23.8
70°-80°	3153.4	9.1
80°-90°	319.5	0.9
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°	34611.0	100.0
0°-180°	34611.0	100.0



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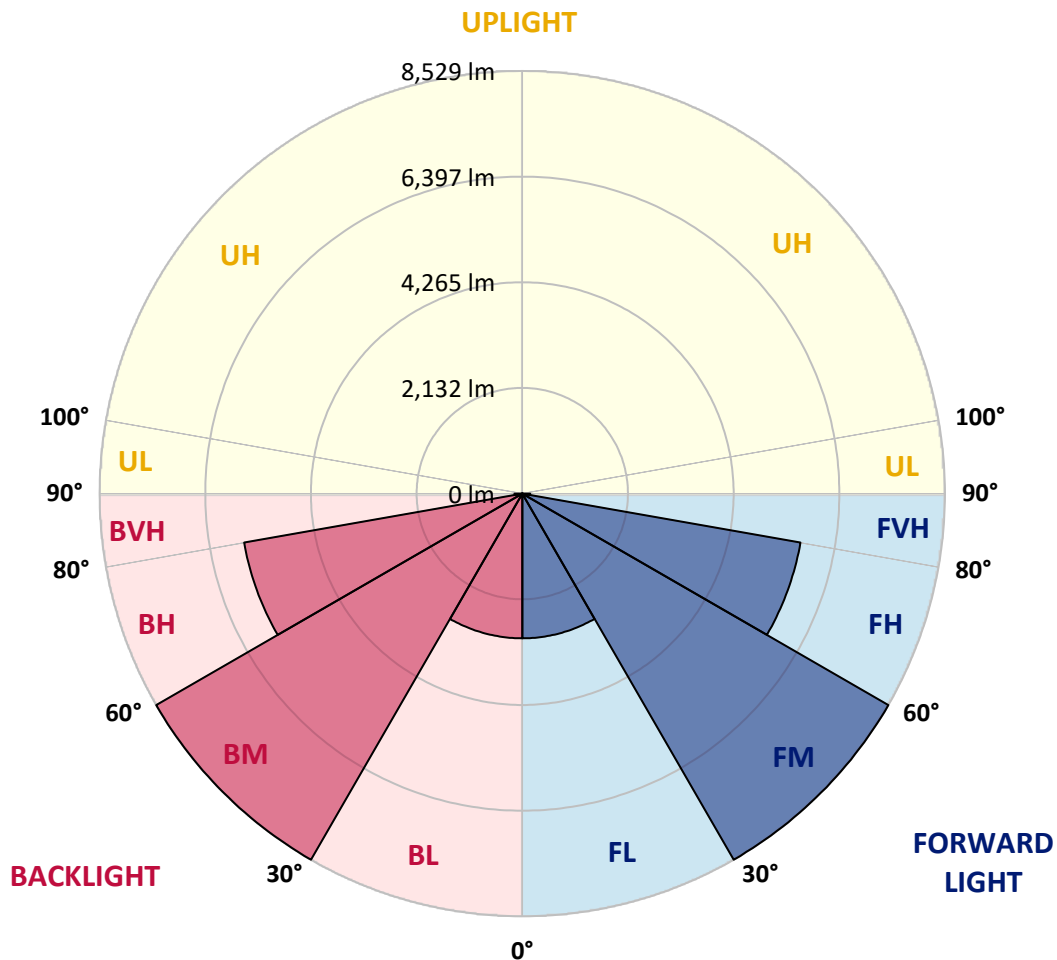
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2918.4	8.4			
FM	(30°-60°)	8529.1	24.6			
FH	(60°-80°)	5698.3	16.5			G3/7500
FVH	(80°-90°)	159.7	0.5			G2/225
BL	(0°-30°)	2918.4	8.4	B4/5000		
BM	(30°-60°)	8529.1	24.6	B5		
BH	(60°-80°)	5698.3	16.5	B5		G5
BVH	(80°-90°)	159.7	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6127.2	6127.2	6127.2	6127.2	6127.2	6127.2	6127.2	6127.2	6127.2	6127.2	6127.2
2.5°	6205.8	6202.0	6203.9	6202.0	6207.7	6203.9	6180.9	6161.7	6146.4	6148.3	6142.6
5°	6338.0	6340.0	6341.9	6332.3	6345.7	6338.0	6301.6	6271.0	6240.3	6228.8	6225.0
7.5°	6447.3	6456.9	6462.6	6472.2	6495.2	6495.2	6476.0	6432.0	6364.9	6326.5	6324.6
10°	6556.5	6564.2	6581.4	6612.1	6650.4	6686.9	6679.2	6619.8	6533.5	6468.4	6453.0
12.5°	6594.9	6604.4	6661.9	6750.1	6836.3	6907.3	6907.3	6859.3	6748.2	6648.5	6619.8
15°	6460.7	6478.0	6581.4	6769.3	6995.4	7150.7	7185.2	7118.1	6999.3	6845.9	6811.4
17.5°	6194.3	6236.5	6387.9	6665.8	7041.4	7363.4	7463.1	7430.5	7277.2	7081.7	7041.4
20°	5908.7	5954.7	6115.7	6483.7	7003.1	7488.0	7777.4	7785.0	7595.3	7311.7	7252.2
22.5°	5594.4	5628.9	5835.9	6267.1	6888.1	7516.7	8047.6	8179.9	7923.0	7541.6	7457.3
25°	5241.8	5280.1	5496.7	5962.4	6671.5	7484.1	8294.8	8586.2	8266.1	7787.0	7679.6
27.5°	4904.5	4919.8	5151.7	5625.1	6386.0	7399.8	8476.9	8959.9	8645.6	7990.1	7854.0
30°	4580.6	4617.0	4822.1	5289.7	6058.2	7235.0	8634.1	9385.4	9053.8	8202.9	8028.4
32.5°	4237.5	4281.6	4503.9	4977.3	5730.5	6987.8	8729.9	9851.1	9623.0	8547.8	8361.9
35°	3907.9	3936.6	4160.8	4620.8	5410.4	6700.3	8747.2	10376.2	10357.1	9071.1	8823.8
37.5°	3570.5	3612.7	3838.9	4279.7	5071.2	6395.5	8660.9	10933.9	11242.5	9797.4	9531.0
40°	3246.6	3283.1	3505.4	3950.0	4686.0	6023.7	8455.8	11443.7	12275.5	10544.9	10167.3
42.5°	2894.0	2903.6	3147.0	3599.3	4308.4	5592.5	8160.7	11898.0	13427.4	11547.2	11077.7
45°	2493.4	2518.4	2744.5	3189.1	3875.3	5109.5	7760.1	12273.6	14887.8	12936.7	12296.6
47.5°	2092.9	2114.0	2320.9	2759.8	3401.9	4555.6	7143.0	12603.3	16386.5	14701.9	13862.4
50°	1701.9	1713.4	1882.1	2271.1	2869.1	3973.0	6378.3	12708.7	18080.8	17201.1	16129.7
52.5°	1345.4	1362.7	1491.1	1795.8	2299.9	3285.0	5552.3	12448.0	20058.7	20164.1	18653.8
55°	1090.5	1096.3	1192.1	1416.3	1797.7	2564.3	4555.6	11721.6	22186.0	23960.8	22034.6
57.5°	939.1	942.9	996.6	1121.2	1383.8	1933.8	3534.1	10347.5	24096.8	28409.1	25932.9
60°	852.9	854.8	885.4	958.3	1096.3	1483.4	2531.8	8407.9	25982.7	33359.5	30777.9
62.5°	799.2	799.2	820.3	860.5	927.6	1138.4	1834.1	6065.9	27274.5	38382.8	36749.9
65°	747.5	747.5	762.8	791.5	828.0	931.4	1355.0	3955.8	27241.9	42041.5	42756.4
67.5°	688.0	688.0	699.5	728.3	749.4	801.1	1046.4	2591.2	24470.6	41961.0	46033.7
70°	617.1	617.1	632.5	657.4	674.6	707.2	826.0	1772.8	17977.3	35828.1	40939.5
72.5°	546.2	548.1	557.7	582.6	596.0	615.2	686.1	1241.9	11027.9	24395.8	28625.7
75°	467.6	471.5	481.1	506.0	517.5	525.1	578.8	885.4	5579.1	13153.3	14976.0
77.5°	377.6	385.2	391.0	417.8	425.5	437.0	477.2	640.1	2449.4	4726.2	4768.4
80°	276.0	285.6	302.8	327.7	333.5	341.1	364.1	454.2	1109.7	2158.0	2343.9
82.5°	203.2	216.6	195.5	228.1	228.1	218.5	256.8	304.7	509.8	2137.0	2556.7
85°	111.2	113.1	101.6	116.9	124.6	122.7	136.1	149.5	247.2	1425.9	1470.0
87.5°	26.8	28.7	30.7	36.4	44.1	44.1	47.9	42.2	80.5	461.9	264.5
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)