

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: P456934

Luminaire Tested: **GALN-SA8B-727-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456934
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-SA8B-727-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38359 lumens
Efficiency: N/A
Efficacy: 118.0 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

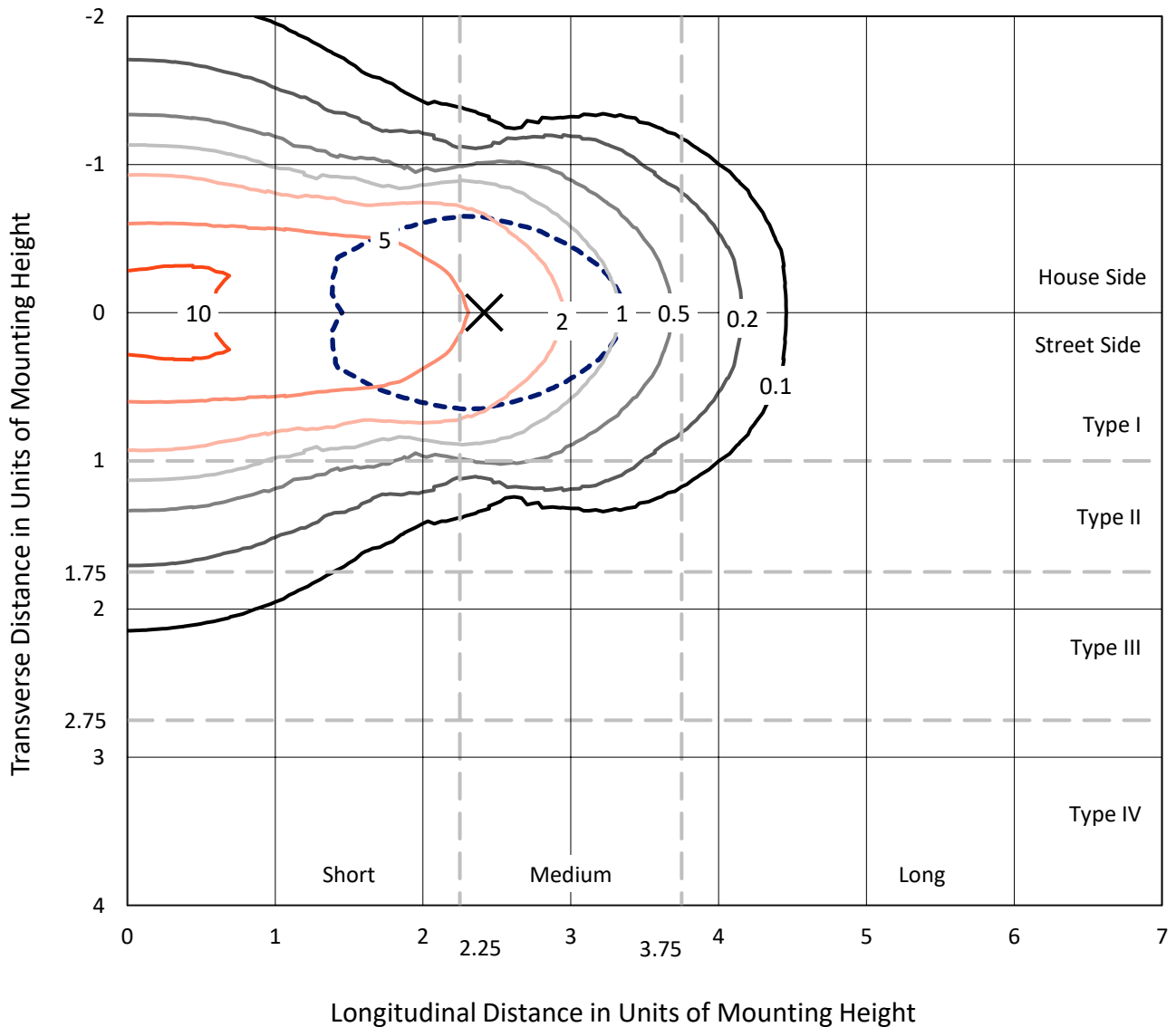
Input Watts (W): 325
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

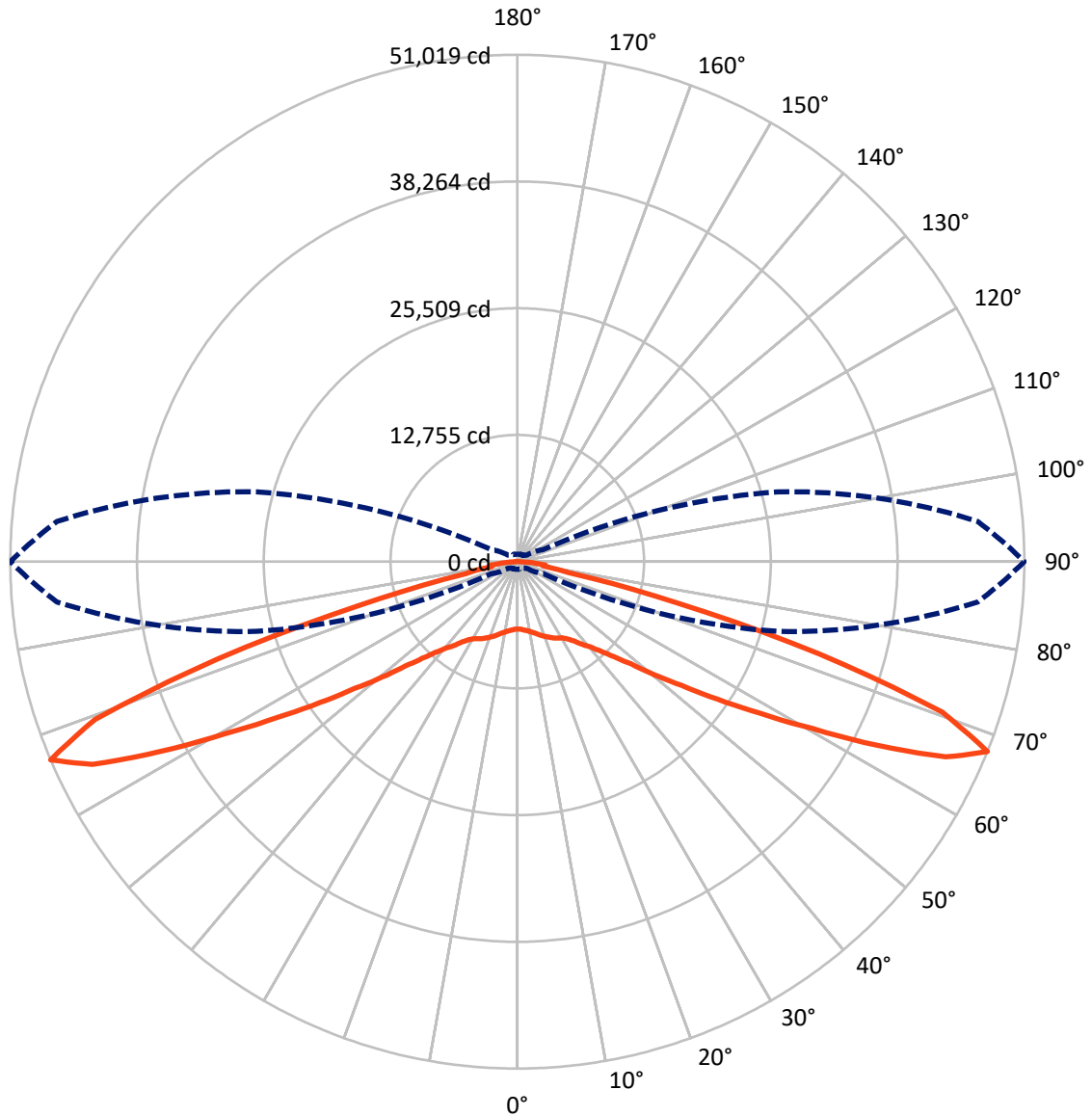
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 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	19179.5	0.0	19179.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	19179.5	0.0	19179.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	38359.0	0.0	38359.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	677.0	1.8
10°-20°	2166.1	5.6
20°-30°	3625.6	9.5
30°-40°	4911.7	12.8
40°-50°	6221.5	16.2
50°-60°	7772.2	20.3
60°-70°	9135.9	23.8
70°-80°	3494.9	9.1
80°-90°	354.1	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°	38359.0	100.0
0°-180°	38359.0	100.0



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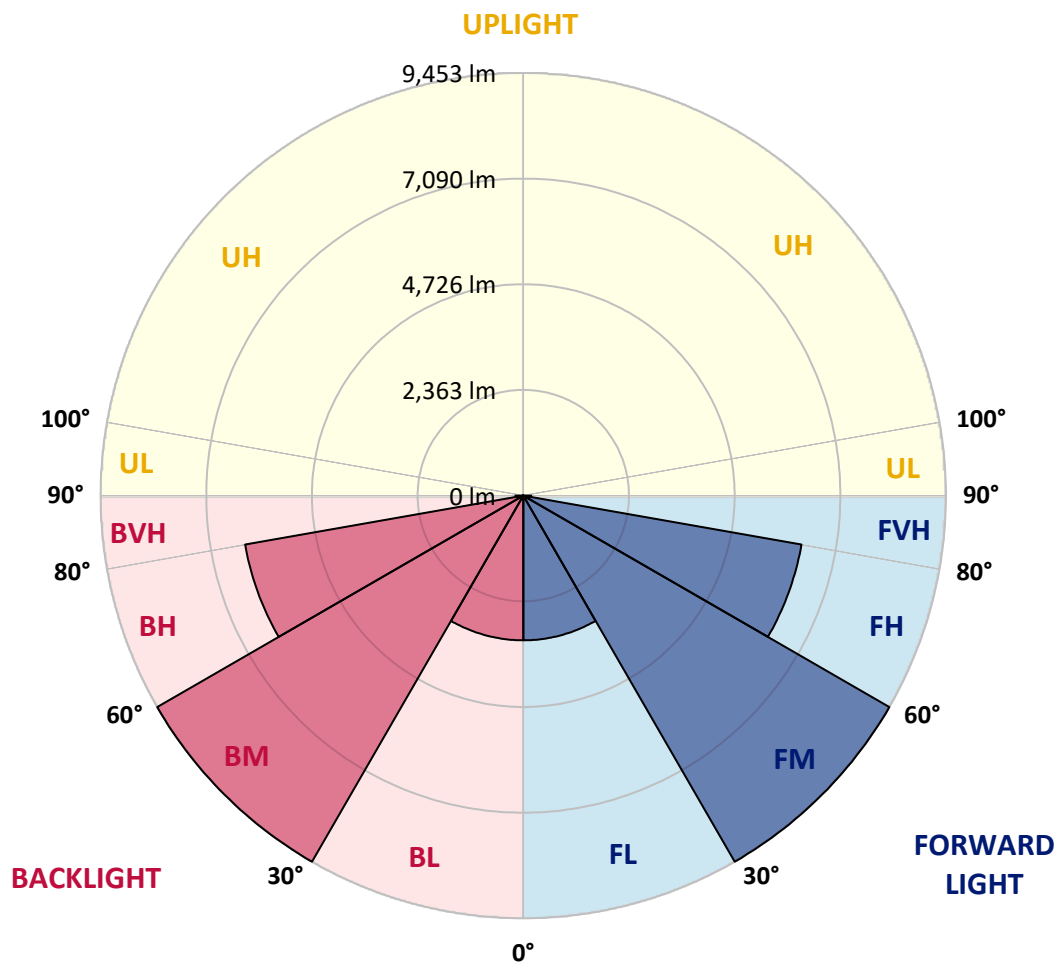
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3234.4	8.4			
FM (30°-60°)	9452.7	24.6			
FH (60°-80°)	6315.4	16.5			G3/7500
FVH (80°-90°)	177.0	0.5			G2/225
BL (0°-30°)	3234.4	8.4	B4/5000		
BM (30°-60°)	9452.7	24.6	B5		
BH (60°-80°)	6315.4	16.5	B5		G5
BVH (80°-90°)	177.0	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°	6790.7	6790.7	6790.7	6790.7	6790.7	6790.7	6790.7	6790.7	6790.7	6790.7	6790.7
2.5°	6877.8	6873.6	6875.7	6873.6	6879.9	6875.7	6850.2	6829.0	6812.0	6814.1	6807.7
5°	7024.4	7026.5	7028.6	7018.0	7032.9	7024.4	6984.0	6950.0	6916.1	6903.3	6899.1
7.5°	7145.5	7156.1	7162.5	7173.1	7198.6	7198.6	7177.3	7128.5	7054.1	7011.6	7009.5
10°	7266.5	7275.0	7294.1	7328.1	7370.6	7411.0	7402.5	7336.6	7241.0	7168.8	7151.8
12.5°	7309.0	7319.6	7383.4	7481.1	7576.7	7655.2	7655.2	7602.1	7478.9	7368.5	7336.6
15°	7160.3	7179.4	7294.1	7502.3	7753.0	7925.0	7963.2	7888.9	7757.2	7587.3	7549.0
17.5°	6865.1	6911.8	7079.6	7387.6	7803.9	8160.8	8271.2	8235.1	8065.2	7848.5	7803.9
20°	6548.6	6599.6	6778.0	7185.8	7761.4	8298.8	8619.6	8628.1	8417.8	8103.4	8037.6
22.5°	6200.2	6238.5	6467.9	6945.8	7634.0	8330.7	8919.1	9065.6	8781.0	8358.3	8264.9
25°	5809.4	5851.9	6091.9	6608.1	7394.0	8294.6	9193.1	9516.0	9161.2	8630.2	8511.3
27.5°	5435.6	5452.6	5709.6	6234.2	7077.5	8201.1	9394.9	9930.2	9581.8	8855.4	8704.5
30°	5076.6	5116.9	5344.2	5862.5	6714.3	8018.5	9569.1	10401.7	10034.2	9091.1	8897.8
32.5°	4696.4	4745.2	4991.6	5516.3	6351.0	7744.5	9675.3	10917.9	10665.1	9473.5	9267.4
35°	4331.0	4362.9	4611.4	5121.2	5996.3	7425.8	9694.4	11499.9	11478.6	10053.3	9779.3
37.5°	3957.2	4003.9	4254.6	4743.1	5620.4	7088.1	9598.8	12118.0	12460.0	10858.4	10563.1
40°	3598.2	3638.6	3885.0	4377.8	5193.4	6676.0	9371.5	12683.0	13604.8	11686.8	11268.3
42.5°	3207.4	3218.0	3487.8	3989.1	4775.0	6198.1	9044.4	13186.4	14881.4	12797.7	12277.3
45°	2763.4	2791.1	3041.7	3534.5	4294.9	5662.8	8600.5	13602.7	16500.0	14337.7	13628.2
47.5°	2319.5	2342.9	2572.3	3058.7	3770.3	5049.0	7916.5	13968.1	18161.0	16293.9	15363.6
50°	1886.2	1898.9	2085.9	2517.1	3179.8	4403.3	7069.0	14084.9	20038.7	19063.8	17876.4
52.5°	1491.1	1510.2	1652.5	1990.3	2548.9	3640.7	6153.5	13796.0	22230.8	22347.6	20673.8
55°	1208.6	1215.0	1321.2	1569.7	1992.4	2842.0	5049.0	12991.0	24588.5	26555.5	24420.7
57.5°	1040.8	1045.1	1104.5	1242.6	1533.6	2143.2	3916.8	11468.0	26706.3	31485.5	28741.2
60°	945.2	947.3	981.3	1062.0	1215.0	1644.1	2805.9	9318.4	28796.4	36972.0	34110.9
62.5°	885.7	885.7	909.1	953.7	1028.1	1261.7	2032.8	6722.8	30228.0	42539.3	40729.6
65°	828.4	828.4	845.4	877.3	917.6	1032.3	1501.7	4384.1	30191.9	46594.2	47386.5
67.5°	762.6	762.6	775.3	807.2	830.5	887.9	1159.8	2871.8	27120.5	46505.0	51018.7
70°	684.0	684.0	701.0	728.6	747.7	783.8	915.5	1964.8	19924.0	39707.9	45372.8
72.5°	605.4	607.5	618.1	645.7	660.6	681.8	760.4	1376.4	12222.1	27037.6	31725.5
75°	518.3	522.5	533.1	560.8	573.5	582.0	641.5	981.3	6183.2	14577.7	16597.7
77.5°	418.4	426.9	433.3	463.1	471.5	484.3	528.9	709.4	2714.6	5238.0	5284.8
80°	305.9	316.5	335.6	363.2	369.6	378.1	403.6	503.4	1229.9	2391.7	2597.8
82.5°	225.2	240.0	216.7	252.8	252.8	242.1	284.6	337.7	565.0	2368.4	2833.5
85°	123.2	125.3	112.6	129.6	138.1	135.9	150.8	165.7	274.0	1580.3	1629.2
87.5°	29.7	31.9	34.0	40.4	48.9	48.9	53.1	46.7	89.2	511.9	293.1
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)