

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: P456035

Luminaire Tested: **GALN-SA7B-730-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456035
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-SA7B-730-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36031 lumens
Efficiency: N/A
Efficacy: 126.0 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

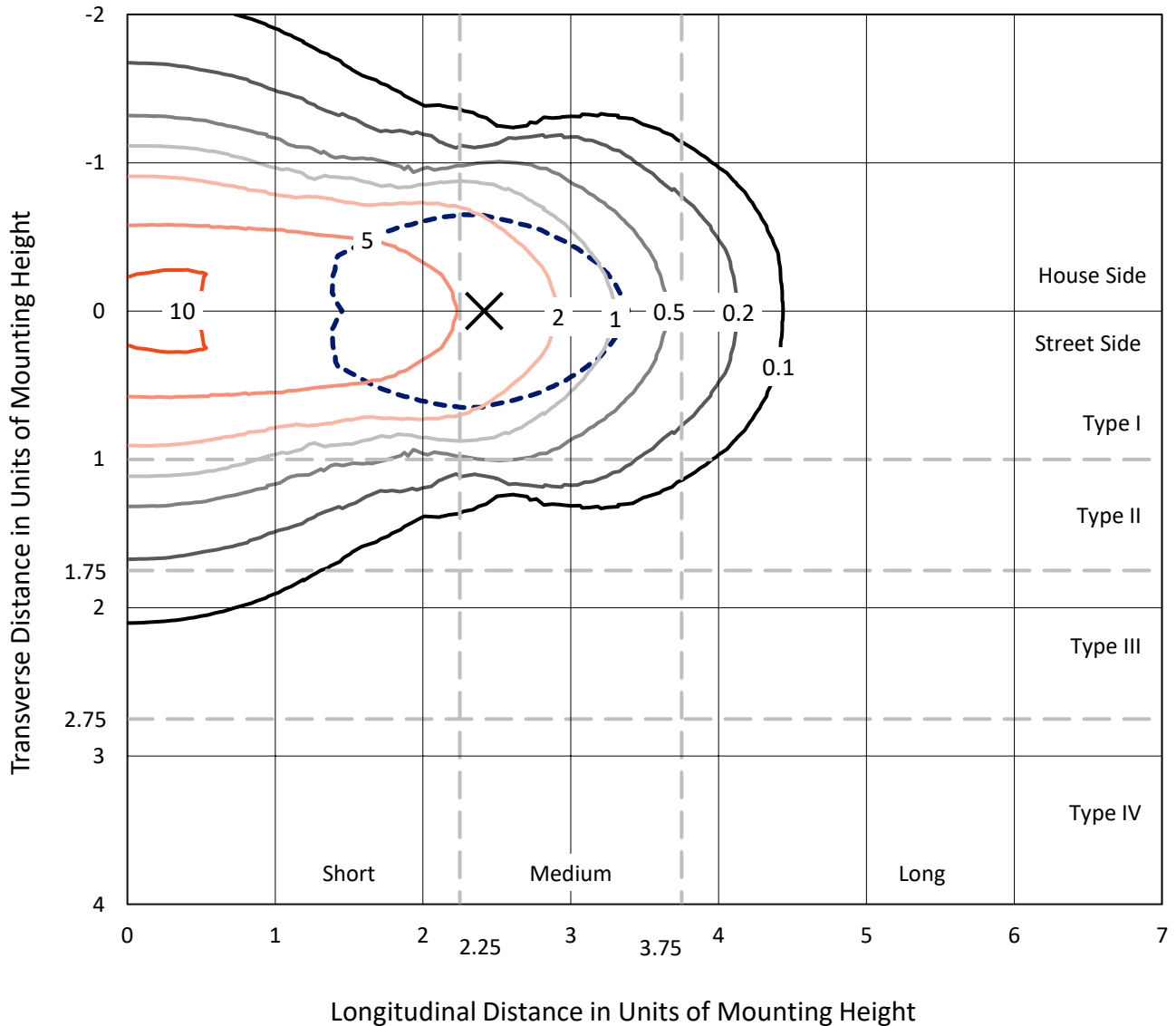
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

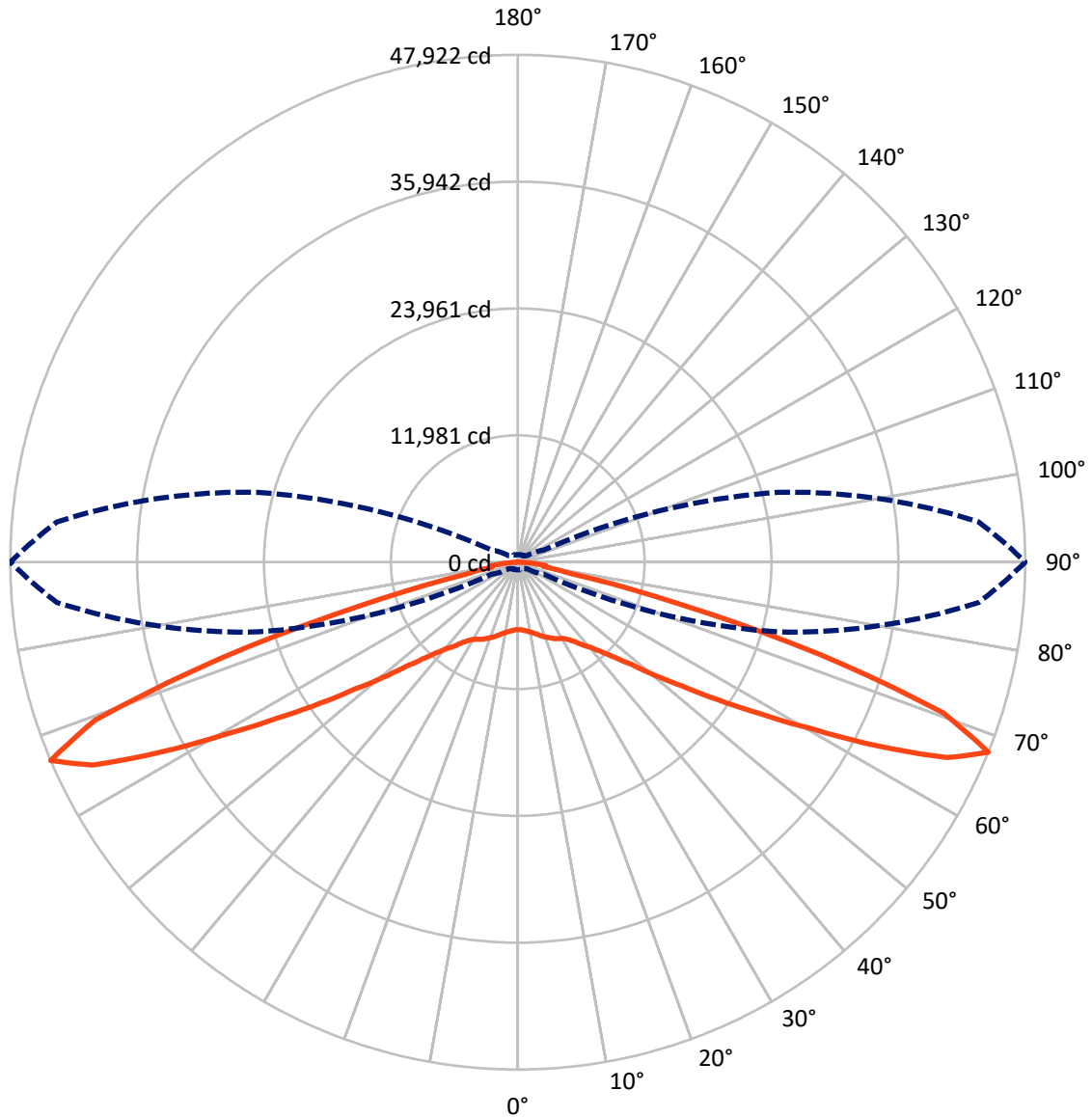
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 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	18015.5	0.0	18015.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18015.5	0.0	18015.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	36031.0	0.0	36031.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	635.9	1.8
10°-20°	2034.7	5.6
20°-30°	3405.5	9.5
30°-40°	4613.6	12.8
40°-50°	5843.9	16.2
50°-60°	7300.5	20.3
60°-70°	8581.4	23.8
70°-80°	3282.8	9.1
80°-90°	332.6	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°	36031.0	100.0
0°-180°	36031.0	100.0

Coefficient of Utilization



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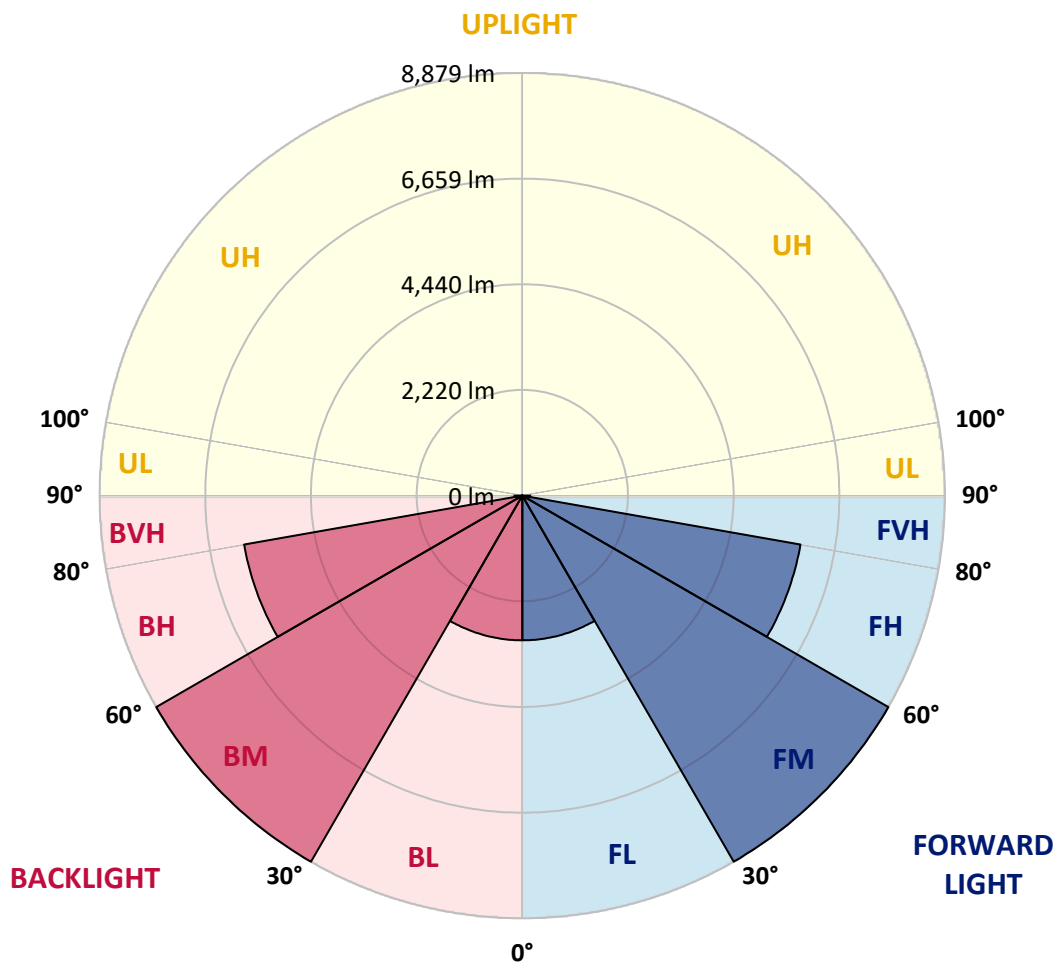
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3038.1	8.4			
FM	(30°-60°)	8879.0	24.6			
FH	(60°-80°)	5932.1	16.5			G3/7500
FVH	(80°-90°)	166.3	0.5			G2/225
BL	(0°-30°)	3038.1	8.4	B4/5000		
BM	(30°-60°)	8879.0	24.6	B5		
BH	(60°-80°)	5932.1	16.5	B5		G5
BVH	(80°-90°)	166.3	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°	6378.6	6378.6	6378.6	6378.6	6378.6	6378.6	6378.6	6378.6	6378.6	6378.6	6378.6
2.5°	6460.4	6456.4	6458.4	6456.4	6462.4	6458.4	6434.5	6414.5	6398.6	6400.6	6394.6
5°	6598.1	6600.1	6602.1	6592.1	6606.1	6598.1	6560.2	6528.2	6496.3	6484.4	6480.4
7.5°	6711.8	6721.8	6727.8	6737.7	6761.7	6761.7	6741.7	6695.8	6626.0	6586.1	6584.1
10°	6825.5	6833.5	6851.5	6883.4	6923.3	6961.2	6953.2	6891.4	6801.6	6733.8	6717.8
12.5°	6865.4	6875.4	6935.3	7027.0	7116.8	7190.6	7190.6	7140.8	7025.0	6921.3	6891.4
15°	6725.8	6743.7	6851.5	7047.0	7282.4	7444.0	7480.0	7410.1	7286.4	7126.8	7090.9
17.5°	6448.4	6492.3	6650.0	6939.3	7330.3	7665.5	7769.3	7735.3	7575.7	7372.2	7330.3
20°	6151.2	6199.0	6366.6	6749.7	7290.4	7795.2	8096.5	8104.4	7906.9	7611.6	7549.8
22.5°	5823.9	5859.9	6075.3	6524.3	7170.7	7825.1	8377.8	8515.5	8248.1	7851.1	7763.3
25°	5456.8	5496.7	5722.2	6207.0	6945.2	7791.2	8635.2	8938.4	8605.2	8106.4	7994.7
27.5°	5105.7	5121.6	5363.1	5855.9	6648.0	7703.4	8824.7	9327.5	9000.3	8317.9	8176.3
30°	4768.5	4806.4	5019.9	5506.7	6306.8	7531.8	8988.3	9770.4	9425.3	8539.4	8357.8
32.5°	4411.4	4457.2	4688.7	5181.5	5965.6	7274.4	9088.1	10255.3	10017.8	8898.5	8705.0
35°	4068.2	4098.1	4331.5	4810.4	5632.4	6975.2	9106.0	10801.9	10782.0	9443.2	9185.8
37.5°	3717.0	3760.9	3996.4	4455.2	5279.3	6657.9	9016.2	11382.5	11703.8	10199.4	9922.1
40°	3379.8	3417.8	3649.2	4112.1	4878.2	6270.9	8802.8	11913.3	12779.2	10977.5	10584.5
42.5°	3012.7	3022.7	3276.1	3747.0	4485.2	5822.0	8495.5	12386.1	13978.3	12021.0	11532.2
45°	2595.7	2621.7	2857.1	3320.0	4034.3	5319.2	8078.5	12777.2	15498.6	13467.5	12801.1
47.5°	2178.7	2200.7	2416.2	2873.1	3541.5	4742.6	7436.1	13120.3	17058.8	15305.1	14431.2
50°	1771.7	1783.7	1959.3	2364.3	2986.8	4136.0	6640.0	13230.1	18822.6	17906.8	16791.5
52.5°	1400.6	1418.6	1552.3	1869.5	2394.2	3419.7	5780.1	12958.7	20881.6	20991.3	19419.1
55°	1135.3	1141.2	1241.0	1474.4	1871.5	2669.6	4742.6	12202.6	23096.3	24943.8	22938.7
57.5°	977.6	981.6	1037.5	1167.2	1440.5	2013.1	3679.1	10772.0	25085.5	29574.6	26996.9
60°	887.9	889.9	921.8	997.6	1141.2	1544.3	2635.6	8752.9	27048.7	34728.2	32040.7
62.5°	832.0	832.0	853.9	895.8	965.7	1185.1	1909.4	6314.8	28393.5	39957.6	38257.7
65°	778.1	778.1	794.1	824.0	861.9	969.7	1410.6	4118.1	28359.6	43766.4	44510.6
67.5°	716.3	716.3	728.2	758.2	780.1	834.0	1089.4	2697.5	25474.5	43682.6	47922.4
70°	642.4	642.4	658.4	684.3	702.3	736.2	859.9	1845.5	18714.8	37298.0	42619.2
72.5°	568.6	570.6	580.6	606.5	620.5	640.5	714.3	1292.9	11480.3	25396.7	29800.1
75°	486.8	490.8	500.8	526.7	538.7	546.7	602.5	921.8	5808.0	13693.0	15590.4
77.5°	393.1	401.0	407.0	435.0	442.9	454.9	496.8	666.4	2549.8	4920.1	4964.0
80°	287.3	297.3	315.2	341.2	347.2	355.1	379.1	472.9	1155.2	2246.6	2440.1
82.5°	211.5	225.5	203.5	237.4	237.4	227.5	267.4	317.2	530.7	2224.6	2661.6
85°	115.7	117.7	105.7	121.7	129.7	127.7	141.7	155.6	257.4	1484.4	1530.3
87.5°	27.9	29.9	31.9	37.9	45.9	45.9	49.9	43.9	83.8	480.8	275.3
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)