

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: P459254

Luminaire Tested: **GALN-SA7B-735-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459254
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-735-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36855 lumens
Efficiency: N/A
Efficacy: 128.9 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

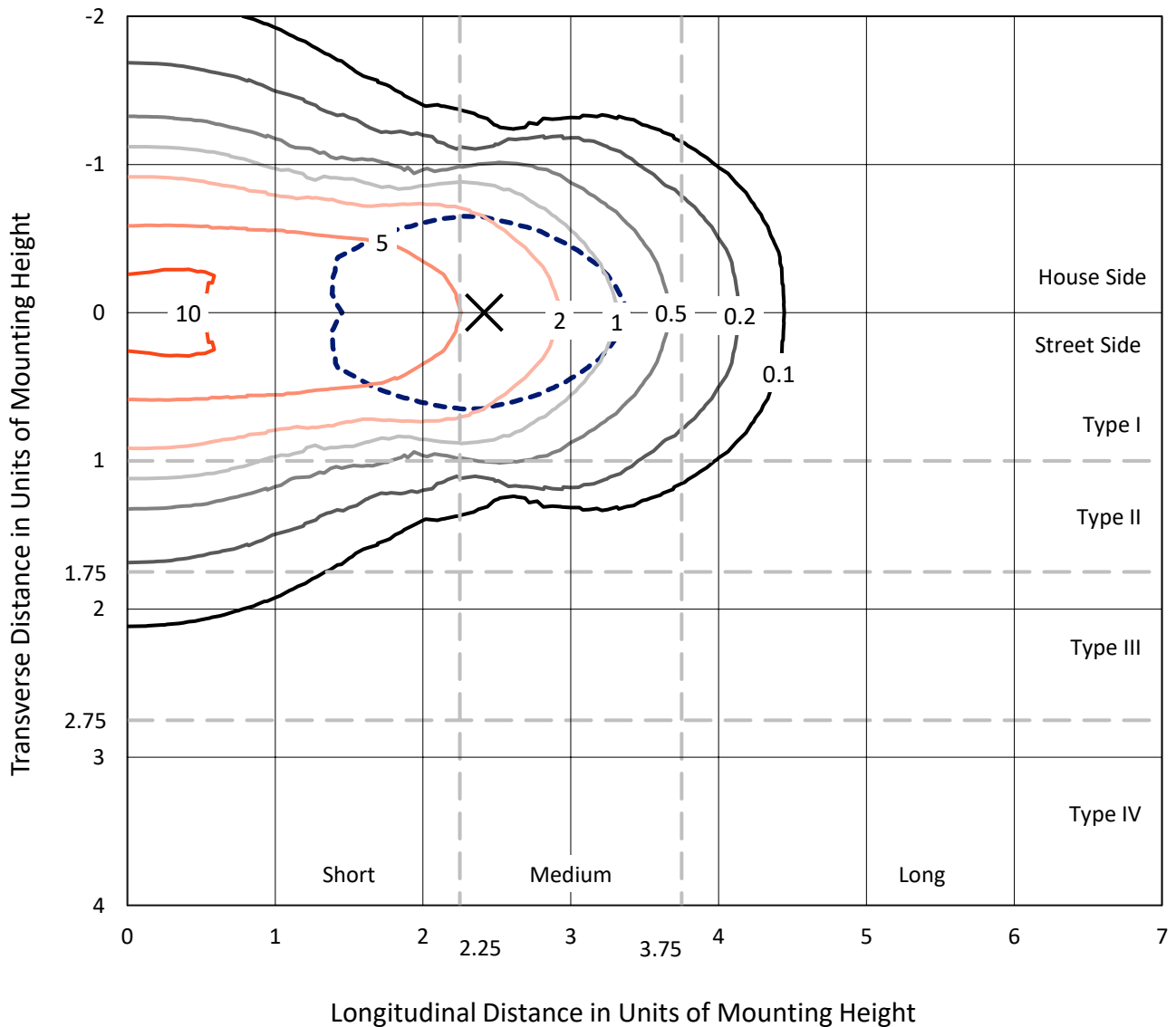
Input Watts (W): 286
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P459254
 CATALOG NUMBER: GALN-SA7B-735-U-T1

Iso-Footcandle Lines of Horizontal Illumination

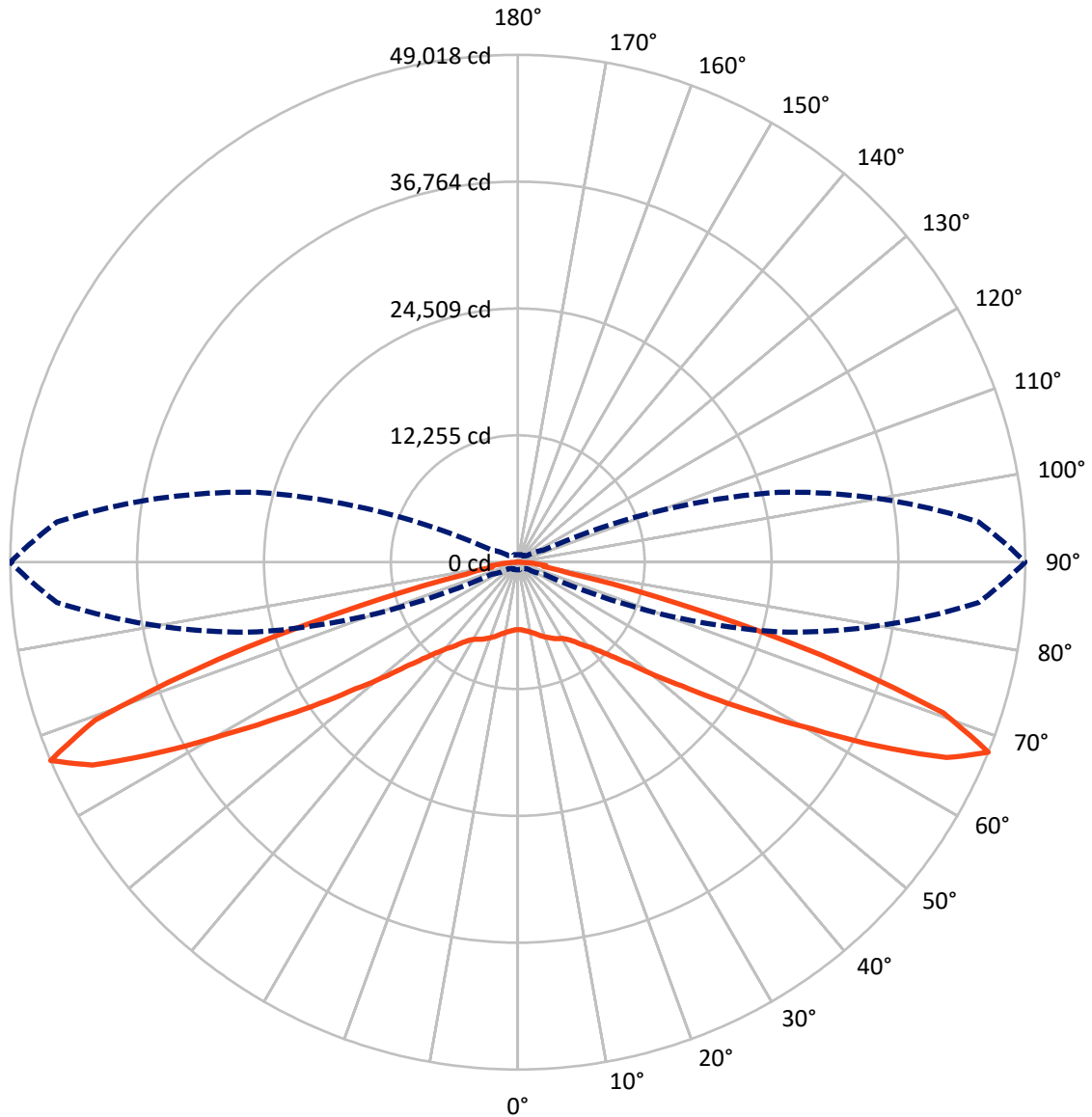
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 fc
 Type I - Short - N/A

REPORT NUMBER: P459254
CATALOG NUMBER: GALN-SA7B-735-U-T1

Luminous Intensity Polar Plot



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

REPORT NUMBER: P459254

CATALOG NUMBER: GALN-SA7B-735-U-T1

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18427.5	0.0	18427.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18427.5	0.0	18427.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	36855.0	0.0	36855.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	650.5	1.8
10°-20°	2081.2	5.6
20°-30°	3483.4	9.5
30°-40°	4719.1	12.8
40°-50°	5977.5	16.2
50°-60°	7467.5	20.3
60°-70°	8777.7	23.8
70°-80°	3357.9	9.1
80°-90°	340.2	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°	36855.0	100.0
0°-180°	36855.0	100.0



REPORT NUMBER: P459254

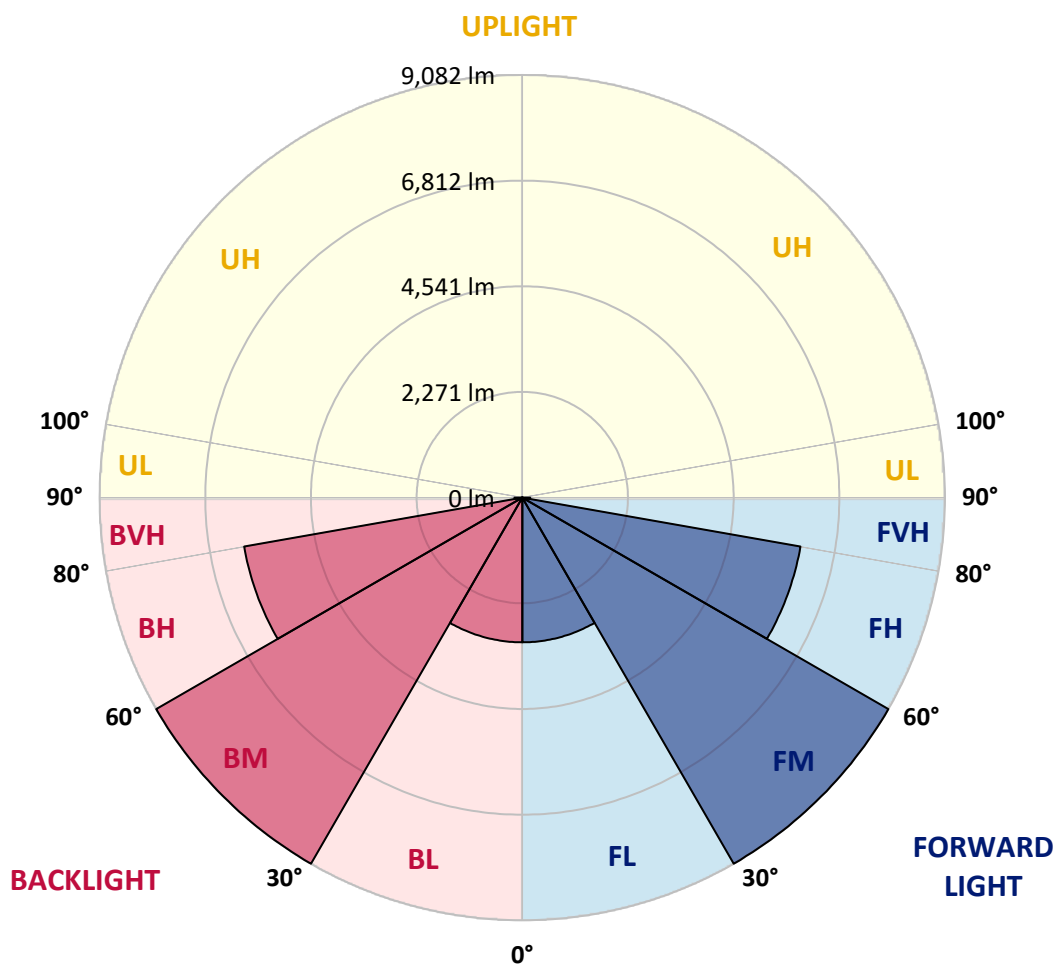
CATALOG NUMBER: GALN-SA7B-735-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3107.6	8.4			
FM (30°-60°)	9082.1	24.6			
FH (60°-80°)	6067.8	16.5			G3/7500
FVH (80°-90°)	170.1	0.5			G2/225
BL (0°-30°)	3107.6	8.4	B4/5000		
BM (30°-60°)	9082.1	24.6	B5		
BH (60°-80°)	6067.8	16.5	B5		G5
BVH (80°-90°)	170.1	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°	6524.5	6524.5	6524.5	6524.5	6524.5	6524.5	6524.5	6524.5	6524.5	6524.5	6524.5
2.5°	6608.2	6604.1	6606.1	6604.1	6610.2	6606.1	6581.6	6561.2	6544.9	6546.9	6540.8
5°	6749.0	6751.0	6753.1	6742.8	6757.1	6749.0	6710.2	6677.5	6644.9	6632.6	6628.6
7.5°	6865.3	6875.5	6881.6	6891.8	6916.3	6916.3	6895.9	6849.0	6777.5	6736.7	6734.7
10°	6981.6	6989.8	7008.2	7040.8	7081.6	7120.4	7112.2	7049.0	6957.1	6887.7	6871.4
12.5°	7022.4	7032.6	7093.9	7187.7	7279.6	7355.1	7355.1	7304.1	7185.7	7079.6	7049.0
15°	6879.6	6898.0	7008.2	7208.2	7449.0	7614.3	7651.0	7579.6	7453.1	7289.8	7253.1
17.5°	6595.9	6640.8	6802.0	7098.0	7498.0	7840.8	7946.9	7912.2	7749.0	7540.8	7498.0
20°	6291.8	6340.8	6512.2	6904.1	7457.1	7973.5	8281.6	8289.8	8087.7	7785.7	7722.4
22.5°	5957.1	5993.9	6214.3	6673.5	7334.7	8004.1	8569.4	8710.2	8436.7	8030.6	7940.8
25°	5581.6	5622.4	5853.1	6349.0	7104.1	7969.4	8832.6	9142.8	8802.0	8291.8	8177.5
27.5°	5222.4	5238.8	5485.7	5989.8	6800.0	7879.6	9026.5	9540.8	9206.1	8508.2	8363.3
30°	4877.5	4916.3	5134.7	5632.6	6451.0	7704.1	9193.9	9993.9	9640.8	8734.7	8549.0
32.5°	4512.2	4559.2	4795.9	5300.0	6102.0	7440.8	9295.9	10489.8	10246.9	9102.0	8904.1
35°	4161.2	4191.8	4430.6	4920.4	5761.2	7134.7	9314.3	11049.0	11028.6	9659.2	9395.9
37.5°	3802.0	3846.9	4087.8	4557.1	5400.0	6810.2	9222.4	11642.8	11971.4	10432.6	10149.0
40°	3457.1	3495.9	3732.6	4206.1	4989.8	6414.3	9004.1	12185.7	13071.4	11228.6	10826.5
42.5°	3081.6	3091.8	3351.0	3832.6	4587.7	5955.1	8689.8	12669.4	14297.9	12295.9	11795.9
45°	2655.1	2681.6	2922.4	3395.9	4126.5	5440.8	8263.3	13069.4	15853.0	13775.5	13093.9
47.5°	2228.6	2251.0	2471.4	2938.8	3622.4	4851.0	7606.1	13420.4	17449.0	15655.1	14761.2
50°	1812.2	1824.5	2004.1	2418.4	3055.1	4230.6	6791.8	13532.6	19253.0	18316.3	17175.5
52.5°	1432.7	1451.0	1587.8	1912.2	2449.0	3498.0	5912.2	13255.1	21359.2	21471.4	19863.2
55°	1161.2	1167.3	1269.4	1508.2	1914.3	2730.6	4851.0	12481.6	23624.5	25514.3	23463.2
57.5°	1000.0	1004.1	1061.2	1193.9	1473.5	2059.2	3763.3	11018.4	25659.2	30251.0	27614.3
60°	908.2	910.2	942.9	1020.4	1167.3	1579.6	2695.9	8953.1	27667.3	35522.4	32773.4
62.5°	851.0	851.0	873.5	916.3	987.8	1212.2	1953.1	6459.2	29042.8	40871.4	39132.6
65°	795.9	795.9	812.2	842.9	881.6	991.8	1442.9	4212.2	29008.1	44767.3	45528.5
67.5°	732.7	732.7	744.9	775.5	798.0	853.1	1114.3	2759.2	26057.1	44681.6	49018.3
70°	657.1	657.1	673.5	700.0	718.4	753.1	879.6	1887.8	19142.8	38151.0	43593.8
72.5°	581.6	583.7	593.9	620.4	634.7	655.1	730.6	1322.4	11742.8	25977.5	30481.6
75°	498.0	502.0	512.2	538.8	551.0	559.2	616.3	942.9	5940.8	14006.1	15946.9
77.5°	402.0	410.2	416.3	444.9	453.1	465.3	508.2	681.6	2608.2	5032.6	5077.5
80°	293.9	304.1	322.4	349.0	355.1	363.3	387.8	483.7	1181.6	2298.0	2495.9
82.5°	216.3	230.6	208.2	242.9	242.9	232.7	273.5	324.5	542.9	2275.5	2722.4
85°	118.4	120.4	108.2	124.5	132.7	130.6	144.9	159.2	263.3	1518.4	1565.3
87.5°	28.6	30.6	32.7	38.8	46.9	46.9	51.0	44.9	85.7	491.8	281.6
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)