

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: P456006

Luminaire Tested: **GALN-SA7B-727-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456006
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-727-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 33087 lumens
Efficiency: N/A
Efficacy: 115.7 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

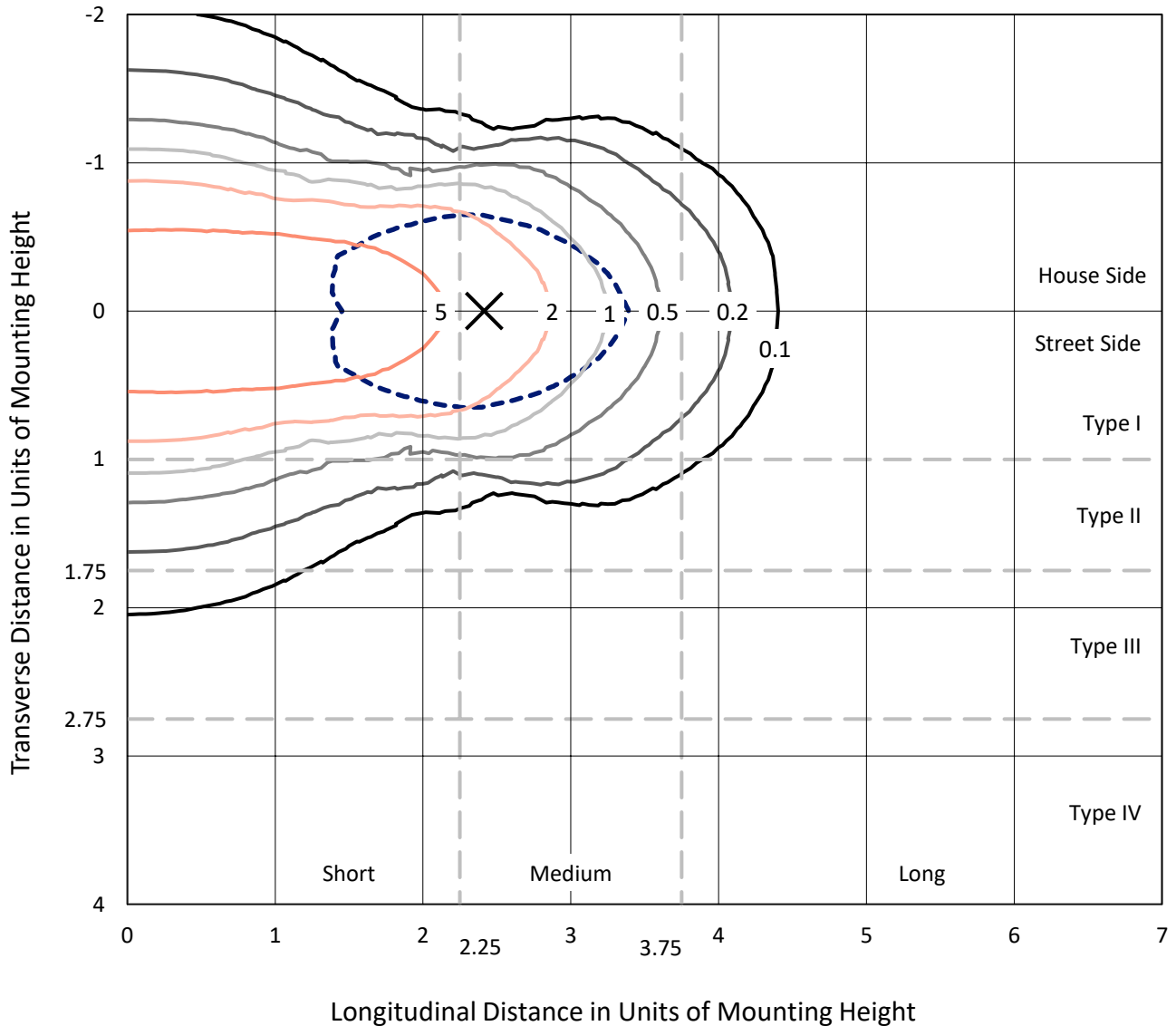
Input Watts (W): 286
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

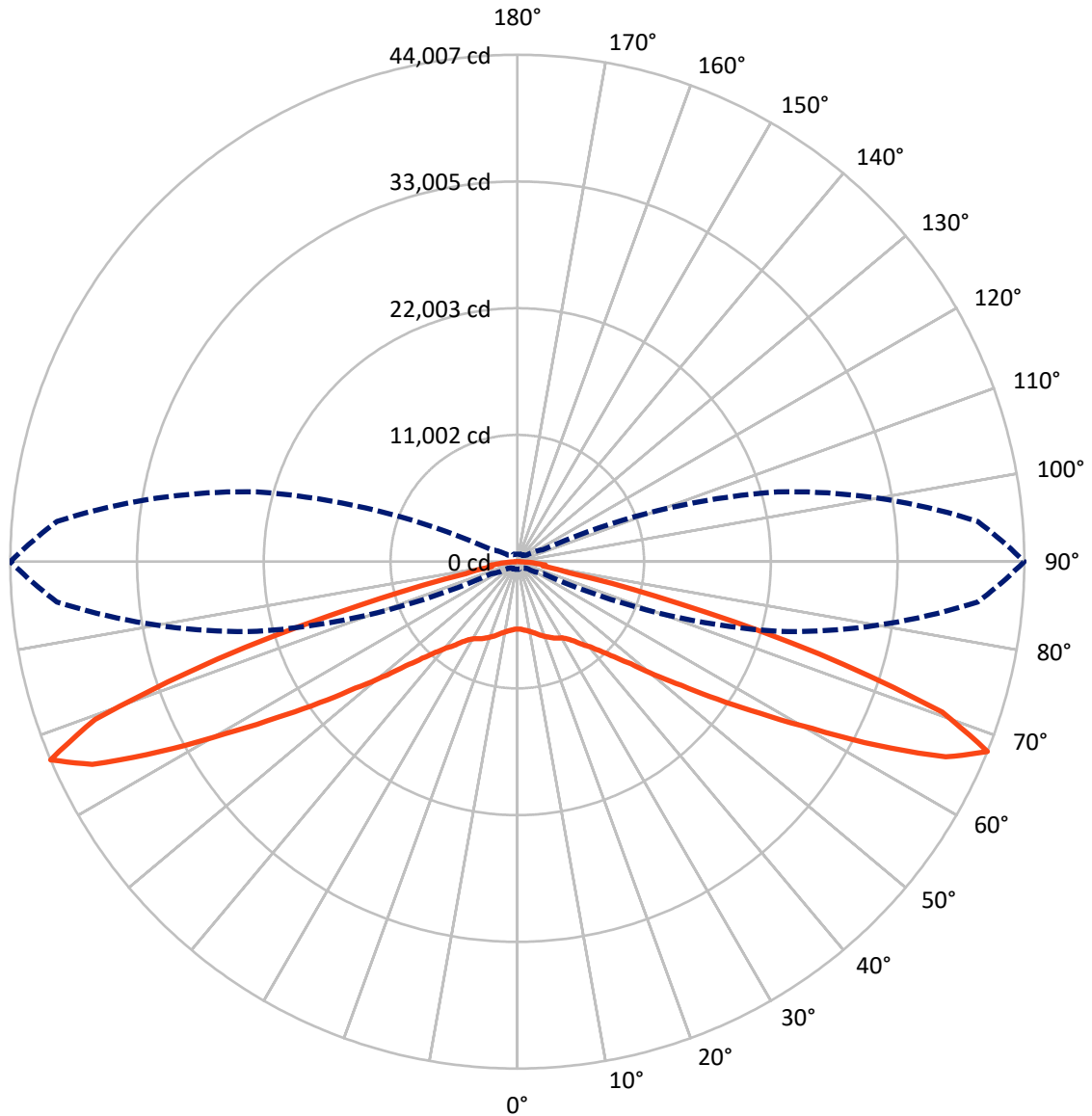
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 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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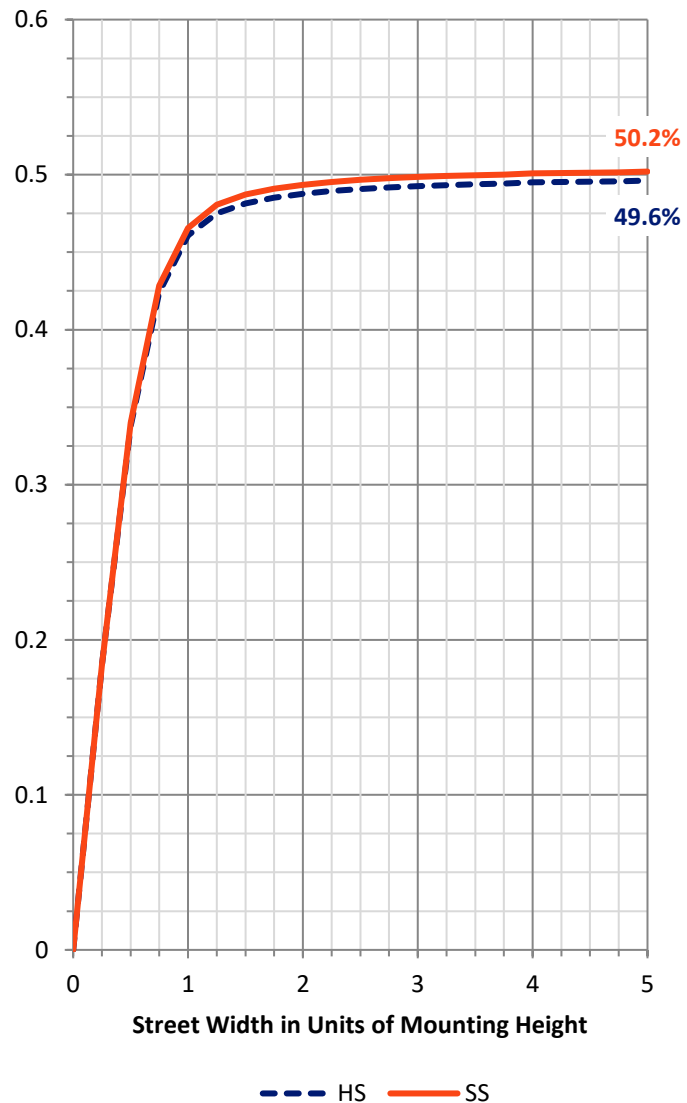
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16543.5	0.0	16543.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16543.5	0.0	16543.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	33087.0	0.0	33087.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	584.0	1.8
10°-20°	1868.4	5.6
20°-30°	3127.3	9.5
30°-40°	4236.7	12.8
40°-50°	5366.4	16.2
50°-60°	6704.0	20.3
60°-70°	7880.3	23.8
70°-80°	3014.6	9.1
80°-90°	305.4	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°	33087.0	100.0
0°-180°	33087.0	100.0



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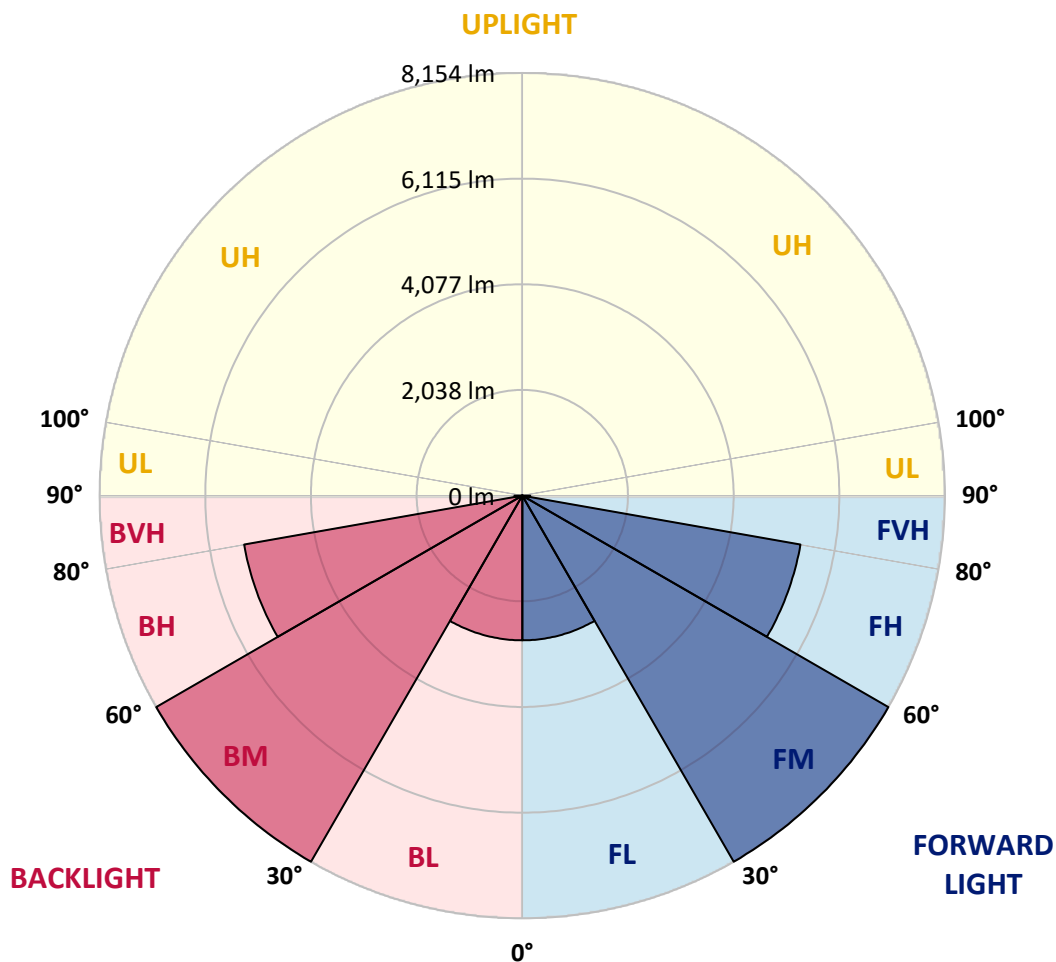
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2789.9	8.4			
FM	(30°-60°)	8153.5	24.6			
FH	(60°-80°)	5447.4	16.5			G3/7500
FVH	(80°-90°)	152.7	0.5			G2/225
BL	(0°-30°)	2789.9	8.4	B4/5000		
BM	(30°-60°)	8153.5	24.6	B4/8500		
BH	(60°-80°)	5447.4	16.5	B5		G5
BVH	(80°-90°)	152.7	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°	5857.4	5857.4	5857.4	5857.4	5857.4	5857.4	5857.4	5857.4	5857.4	5857.4	5857.4
2.5°	5932.5	5928.9	5930.7	5928.9	5934.4	5930.7	5908.7	5890.4	5875.8	5877.6	5872.1
5°	6059.0	6060.8	6062.6	6053.5	6066.3	6059.0	6024.2	5994.8	5965.5	5954.5	5950.9
7.5°	6163.4	6172.6	6178.1	6187.2	6209.2	6209.2	6190.9	6148.7	6084.6	6048.0	6046.1
10°	6267.8	6275.2	6291.7	6321.0	6357.6	6392.4	6385.1	6328.3	6245.8	6183.6	6168.9
12.5°	6304.5	6313.6	6368.6	6452.9	6535.3	6603.1	6603.1	6557.3	6451.1	6355.8	6328.3
15°	6176.2	6192.7	6291.7	6471.2	6687.4	6835.8	6868.8	6804.7	6691.1	6544.5	6511.5
17.5°	5921.6	5961.9	6106.6	6372.3	6731.4	7039.2	7134.4	7103.3	6956.7	6769.8	6731.4
20°	5648.6	5692.5	5846.4	6198.2	6694.7	7158.3	7434.9	7442.3	7260.9	6989.7	6932.9
22.5°	5348.1	5381.1	5578.9	5991.2	6584.8	7185.7	7693.3	7819.7	7574.2	7209.6	7129.0
25°	5011.0	5047.6	5254.6	5699.9	6377.8	7154.6	7929.6	8208.1	7902.1	7444.1	7341.5
27.5°	4688.5	4703.2	4924.9	5377.4	6104.8	7074.0	8103.7	8565.4	8264.9	7638.3	7508.2
30°	4378.9	4413.7	4609.7	5056.8	5791.5	6916.4	8253.9	8972.1	8655.1	7841.7	7674.9
32.5°	4050.9	4093.1	4305.6	4758.1	5478.2	6680.1	8345.5	9417.3	9199.3	8171.5	7993.7
35°	3735.8	3763.3	3977.6	4417.3	5172.2	6405.2	8362.0	9919.3	9901.0	8671.6	8435.3
37.5°	3413.3	3453.6	3669.8	4091.2	4847.9	6113.9	8279.6	10452.5	10747.5	9366.0	9111.4
40°	3103.7	3138.5	3351.0	3776.1	4479.6	5758.5	8083.5	10939.9	11735.0	10080.6	9719.6
42.5°	2766.6	2775.7	3008.4	3440.8	4118.7	5346.3	7801.4	11374.1	12836.1	11038.8	10589.9
45°	2383.6	2407.5	2623.7	3048.7	3704.6	4884.5	7418.4	11733.2	14232.3	12367.1	11755.2
47.5°	2000.7	2020.9	2218.8	2638.3	3252.1	4355.1	6828.5	12048.3	15665.0	14054.5	13252.0
50°	1627.0	1638.0	1799.2	2171.1	2742.7	3798.1	6097.4	12149.1	17284.6	16443.7	15419.5
52.5°	1286.2	1302.7	1425.4	1716.7	2198.6	3140.3	5307.8	11899.9	19175.4	19276.2	17832.5
55°	1042.5	1048.0	1139.6	1354.0	1718.6	2451.4	4355.1	11205.5	21209.1	22905.7	21064.4
57.5°	897.8	901.4	952.7	1071.8	1322.8	1848.7	3378.5	9891.9	23035.8	27158.2	24791.0
60°	815.3	817.1	846.5	916.1	1048.0	1418.1	2420.3	8037.7	24838.7	31890.7	29422.7
62.5°	764.0	764.0	784.2	822.6	886.8	1088.3	1753.4	5798.8	26073.5	36692.8	35131.7
65°	714.5	714.5	729.2	756.7	791.5	890.4	1295.3	3781.6	26042.4	40190.4	40873.8
67.5°	657.7	657.7	668.7	696.2	716.4	765.8	1000.4	2477.1	23393.1	40113.4	44006.8
70°	590.0	590.0	604.6	628.4	644.9	676.1	789.7	1694.8	17185.7	34250.5	39136.9
72.5°	522.2	524.0	533.2	557.0	569.8	588.1	655.9	1187.2	10542.3	23321.6	27365.2
75°	447.0	450.7	459.9	483.7	494.7	502.0	553.3	846.5	5333.4	12574.1	14316.5
77.5°	360.9	368.3	373.8	399.4	406.7	417.7	456.2	611.9	2341.5	4518.1	4558.4
80°	263.8	273.0	289.5	313.3	318.8	326.1	348.1	434.2	1060.8	2063.0	2240.7
82.5°	194.2	207.0	186.9	218.0	218.0	208.9	245.5	291.3	487.4	2042.9	2444.1
85°	106.3	108.1	97.1	111.8	119.1	117.3	130.1	142.9	236.3	1363.1	1405.3
87.5°	25.7	27.5	29.3	34.8	42.1	42.1	45.8	40.3	77.0	441.6	252.8
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)