

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: P456256

Luminaire Tested: **GALN-SA7C-730-U-RW**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456256  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA7C-730-U-RW  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 46011 lumens  
Efficiency: N/A  
Efficacy: 122.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B5 - U0 - G5

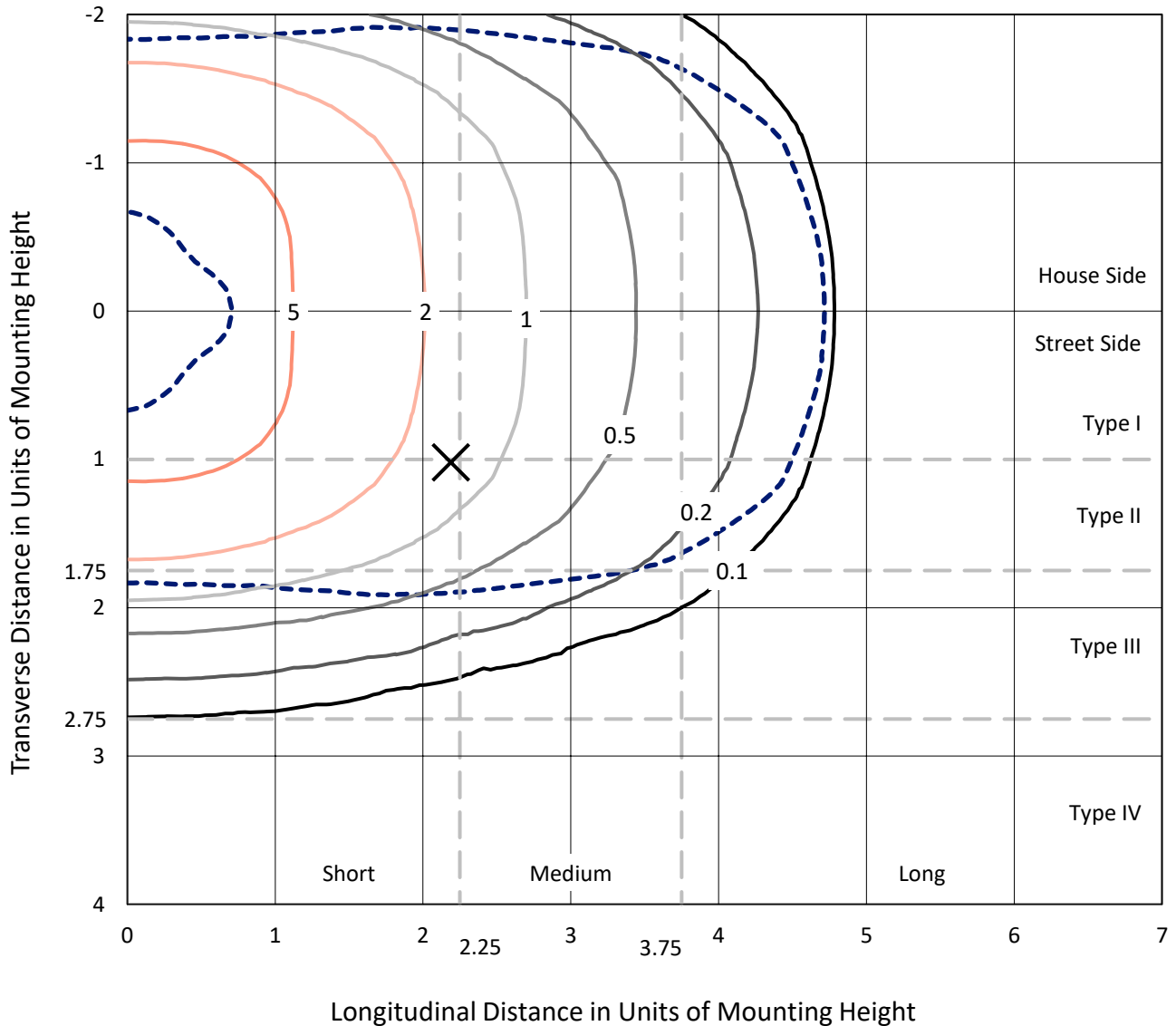
Input Watts (W): 377  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

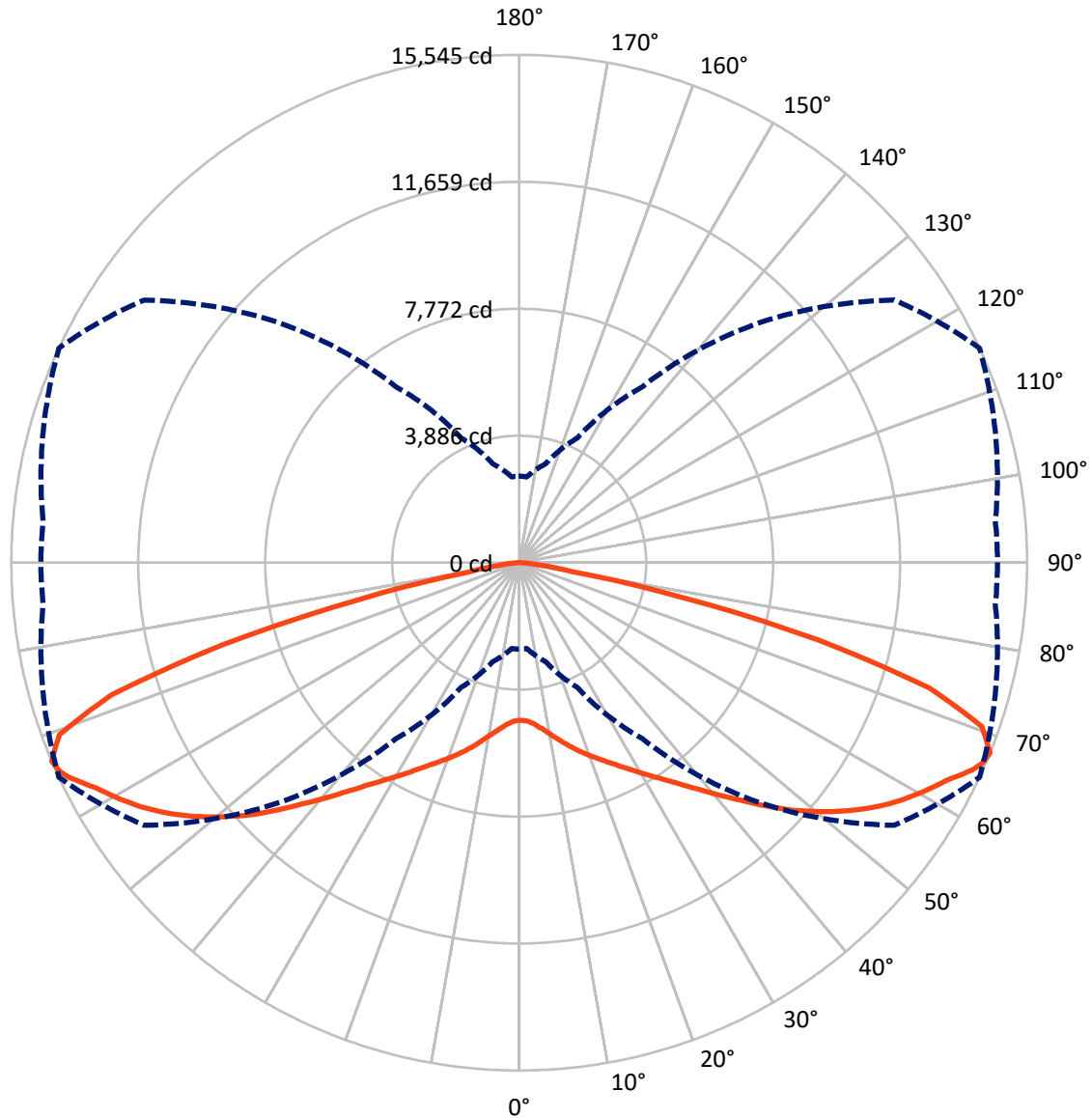
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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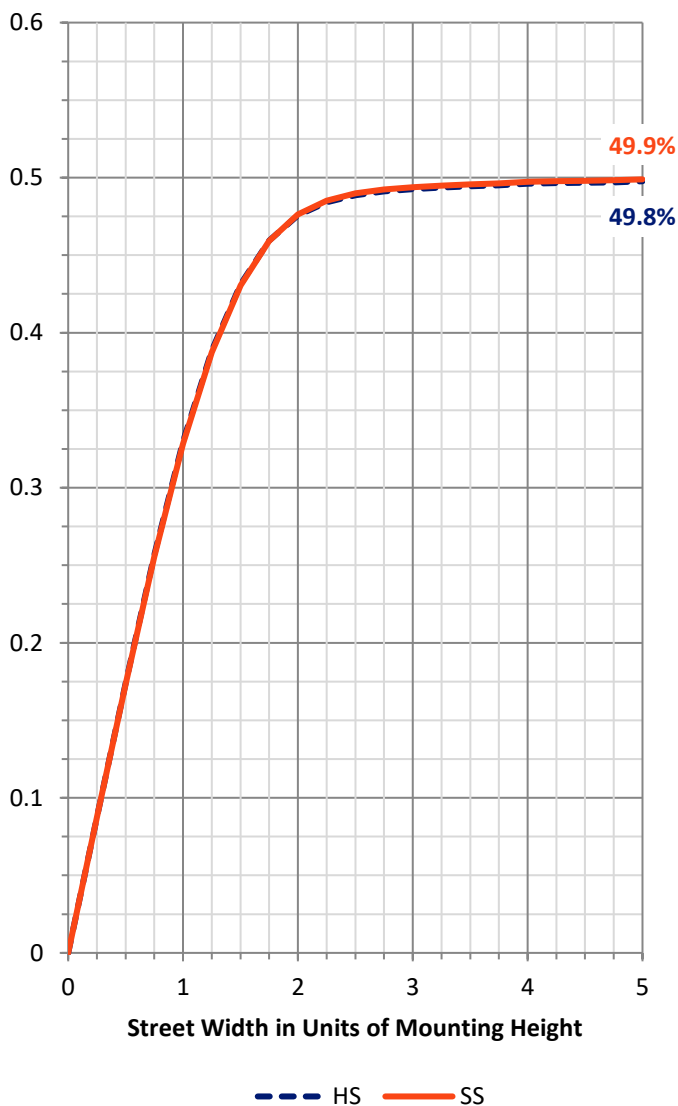
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	23005.5	0.0	23005.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	23005.5	0.0	23005.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	46011.0	0.0	46011.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	475.3	1.0
10°-20°	1590.8	3.5
20°-30°	3111.7	6.8
30°-40°	5292.7	11.5
40°-50°	8376.7	18.2
50°-60°	11107.3	24.1
60°-70°	10477.6	22.8
70°-80°	5179.6	11.3
80°-90°	399.2	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°	46011.0	100.0
0°-180°	46011.0	100.0

**Coefficient of Utilization**



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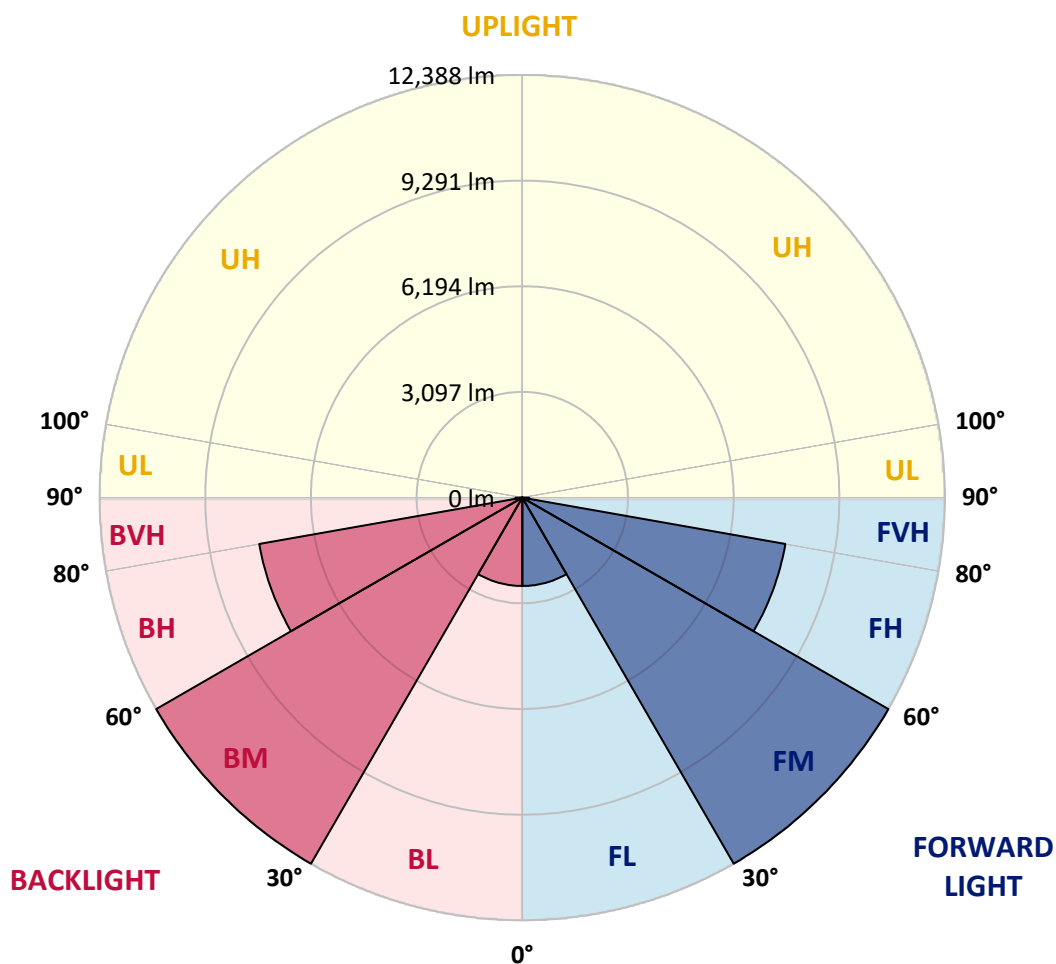
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2588.9	5.6			
FM (30°-60°)	12388.3	26.9			
FH (60°-80°)	7828.6	17.0			G4/12000
FVH (80°-90°)	199.6	0.4			G2/225
BL (0°-30°)	2588.9	5.6	B4/5000		
BM (30°-60°)	12388.3	26.9	B5		
BH (60°-80°)	7828.6	17.0	B5		G5
BVH (80°-90°)	199.6	0.4			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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4819.2	4819.2	4819.2	4819.2	4819.2	4819.2	4819.2	4819.2	4819.2	4819.2	4819.2
2.5°	4794.6	4799.5	4804.5	4811.9	4821.7	4836.5	4846.4	4853.8	4873.5	4875.9	4873.5
5°	4777.3	4782.3	4794.6	4816.8	4848.8	4893.2	4927.7	4969.6	5001.7	5023.8	5018.9
7.5°	4774.9	4784.7	4804.5	4851.3	4912.9	4989.3	5068.2	5139.7	5201.3	5250.6	5243.2
10°	4814.3	4826.6	4858.7	4927.7	5023.8	5134.8	5245.7	5351.7	5440.4	5504.5	5526.7
12.5°	4880.9	4890.7	4949.9	5053.4	5191.5	5329.5	5455.2	5585.9	5709.1	5817.6	5817.6
15°	4996.7	5014.0	5087.9	5238.3	5408.4	5568.6	5696.8	5834.9	5968.0	6091.2	6128.2
17.5°	5157.0	5181.6	5292.5	5484.8	5701.7	5849.7	5970.4	6083.8	6199.7	6318.0	6335.3
20°	5376.4	5401.0	5548.9	5780.6	6037.0	6214.5	6295.8	6322.9	6379.6	6493.0	6507.8
22.5°	5674.6	5699.3	5864.4	6125.7	6411.7	6604.0	6638.5	6574.4	6559.6	6648.3	6658.2
25°	6012.3	6034.5	6224.3	6505.4	6801.2	7010.7	7000.8	6843.1	6754.3	6808.6	6823.4
27.5°	6392.0	6424.0	6616.3	6907.2	7227.6	7412.5	7382.9	7153.7	6963.9	6954.0	6958.9
30°	6877.6	6912.1	7094.5	7373.1	7688.6	7858.7	7797.1	7488.9	7195.6	7097.0	7097.0
32.5°	7390.3	7476.6	7661.5	7952.4	8198.9	8322.1	8228.5	7858.7	7469.2	7331.2	7323.8
35°	8058.4	8105.2	8287.6	8571.1	8756.0	8852.1	8672.2	8275.3	7826.7	7664.0	7641.8
37.5°	8711.6	8751.1	8963.1	9234.2	9458.5	9453.6	9209.6	8770.8	8270.4	8088.0	8073.2
40°	9379.7	9421.6	9663.1	9912.1	10136.4	10116.7	9820.9	9330.4	8797.9	8593.3	8632.7
42.5°	9959.0	10005.8	10279.4	10634.4	10836.5	10831.6	10488.9	9936.8	9382.1	9199.7	9234.2
45°	10486.5	10528.4	10846.4	11253.1	11548.9	11585.9	11211.2	10627.0	10057.6	9823.4	9833.2
47.5°	10858.7	10937.6	11270.4	11736.3	12138.1	12268.7	11901.4	11329.5	10673.8	10429.8	10444.6
50°	11142.2	11191.5	11553.9	12083.9	12591.7	12862.8	12567.0	11980.3	11290.1	11031.3	11065.8
52.5°	11176.7	11235.9	11630.3	12241.6	12892.4	13304.1	13158.6	12616.3	11918.7	11652.5	11726.4
55°	10895.7	10930.2	11401.0	12143.0	13010.7	13631.9	13668.9	13207.9	12517.7	12315.6	12364.9
57.5°	10094.5	10183.3	10779.8	11682.1	12848.0	13807.0	14051.0	13745.3	13124.1	12924.5	13003.3
60°	8780.6	8869.4	9468.4	10612.2	12234.2	13725.6	14366.5	14221.1	13673.8	13513.6	13555.5
62.5°	6880.1	6872.7	7614.7	9017.3	11014.0	13326.3	14600.7	14679.6	14216.2	14014.0	14078.1
65°	4459.3	4481.5	5198.9	6710.0	9172.6	12310.6	14652.5	15263.8	14748.6	14442.9	14489.8
66°	3586.7	3653.3	4262.1	5654.9	8233.4	11645.1	14497.2	15436.4	14911.3	14541.6	14563.7
67.5°	2647.5	2635.2	3135.6	4210.4	6574.4	10380.5	14011.6	15544.8	15096.2	14630.3	14640.2
70°	1511.1	1508.6	1686.1	2312.3	3865.3	7309.0	11810.2	15024.7	15470.9	14950.8	14923.6
72.5°	1104.4	1097.0	1121.6	1276.9	1885.8	3690.2	8147.1	13131.5	15278.6	14899.0	14822.6
75°	926.9	921.9	917.0	936.7	1057.5	1671.3	4323.8	9446.2	13257.2	13984.4	13905.6
77.5°	756.8	756.8	759.2	754.3	759.2	880.0	1792.1	5063.3	8073.2	9012.4	9231.8
80°	591.6	589.2	631.1	613.8	574.4	564.5	793.8	1629.4	2679.6	2664.8	2198.9
82.5°	436.3	406.7	480.7	468.4	424.0	359.9	463.4	695.2	894.8	581.8	431.4
85°	276.1	273.6	340.2	310.6	258.8	170.1	221.9	298.3	369.8	224.3	182.4
87.5°	49.3	46.8	108.5	78.9	78.9	49.3	61.6	81.3	120.8	83.8	61.6
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)