

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: P459272

Luminaire Tested: **GALN-SA7C-735-U-RW**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459272  
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-735-U-RW  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 47064 lumens  
Efficiency: N/A  
Efficacy: 124.8 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

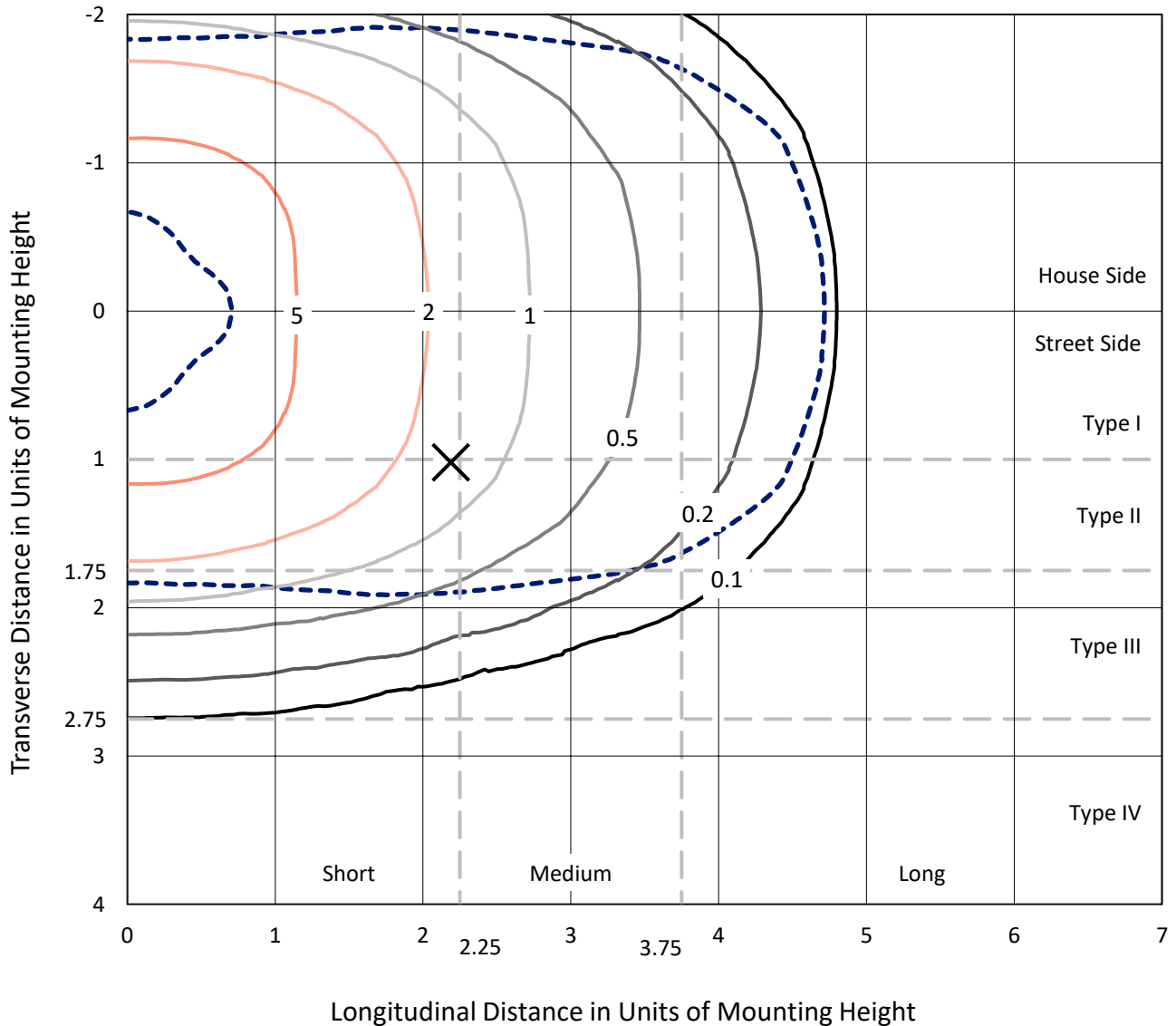
Input Watts (W): 377  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

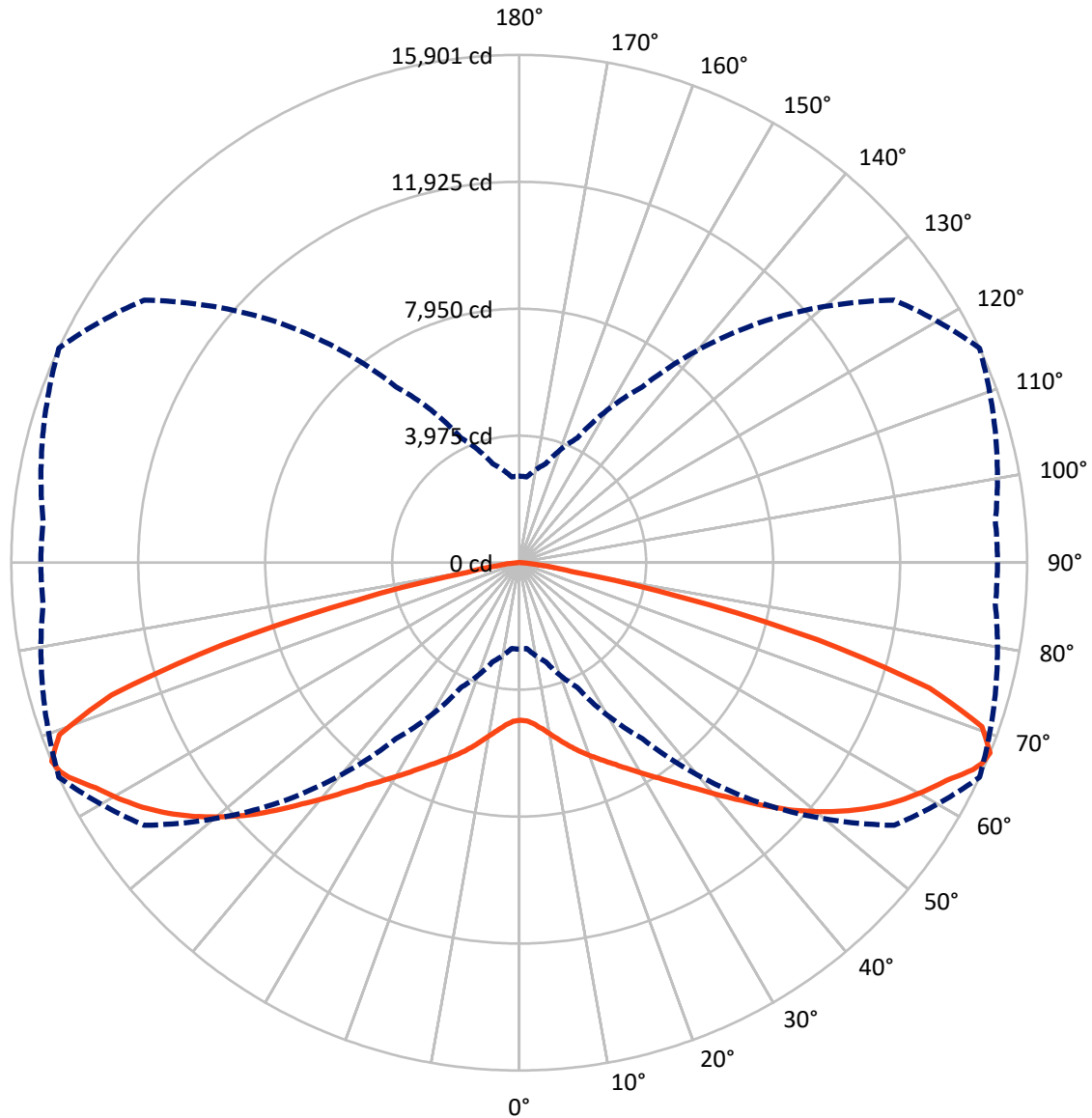
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 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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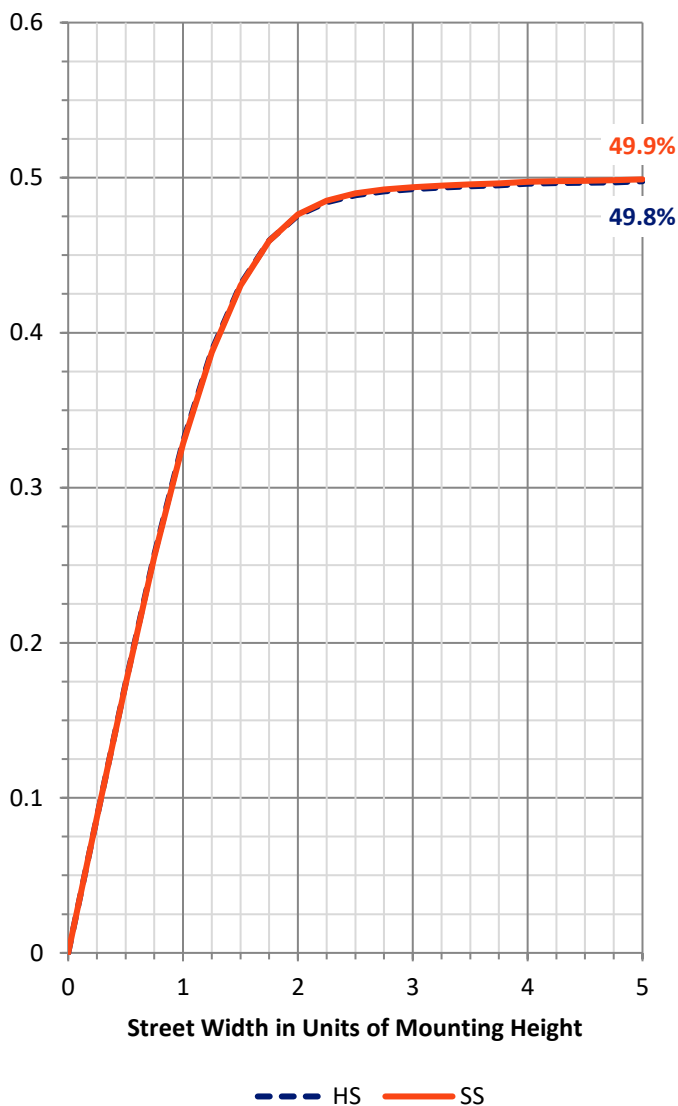
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	23532.0	0.0	23532.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	23532.0	0.0	23532.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	47064.0	0.0	47064.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	486.2	1.0
10°-20°	1627.2	3.5
20°-30°	3183.0	6.8
30°-40°	5413.8	11.5
40°-50°	8568.4	18.2
50°-60°	11361.5	24.1
60°-70°	10717.4	22.8
70°-80°	5298.2	11.3
80°-90°	408.3	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°	47064.0	100.0
0°-180°	47064.0	100.0

**Coefficient of Utilization**



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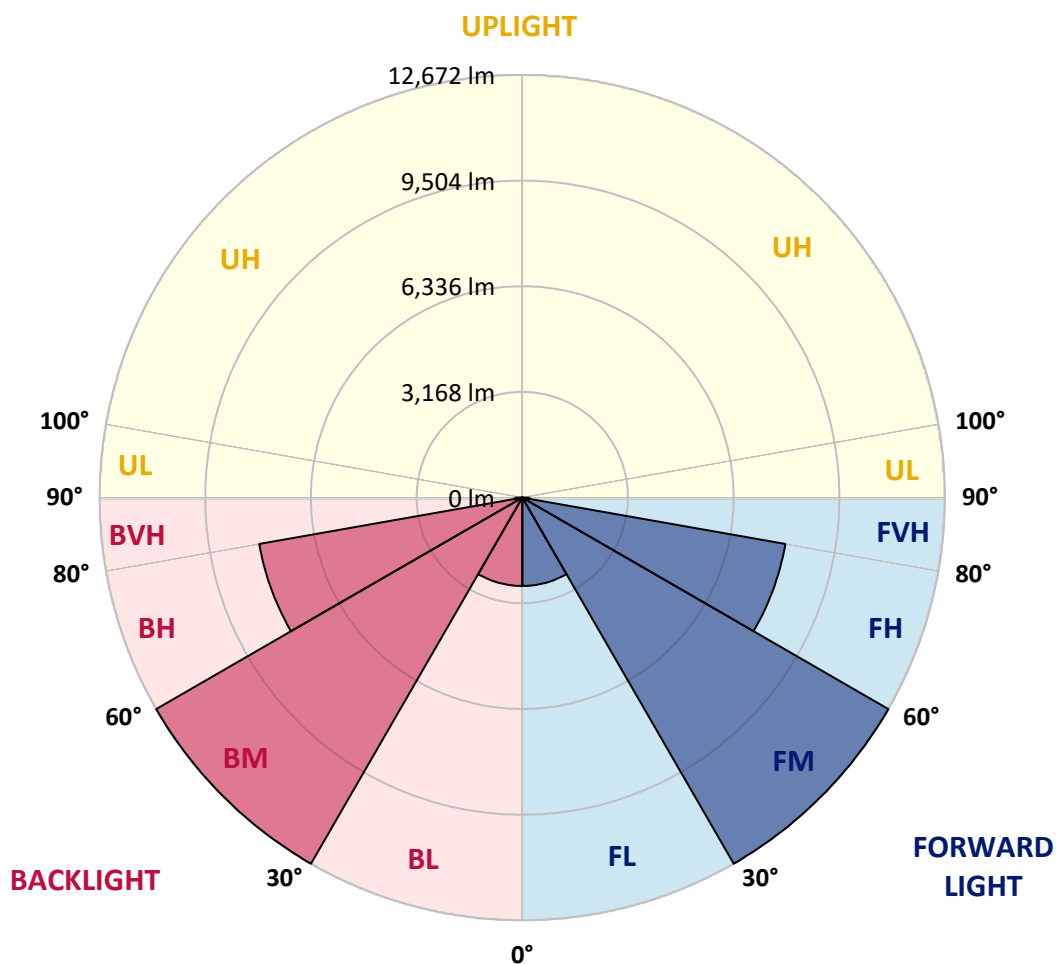
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2648.2	5.6			
FM	(30°-60°)	12671.9	26.9			
FH	(60°-80°)	8007.8	17.0			G4/12000
FVH	(80°-90°)	204.2	0.4			G2/225
BL	(0°-30°)	2648.2	5.6	B4/5000		
BM	(30°-60°)	12671.9	26.9	B5		
BH	(60°-80°)	8007.8	17.0	B5		G5
BVH	(80°-90°)	204.2	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°	4929.5	4929.5	4929.5	4929.5	4929.5	4929.5	4929.5	4929.5	4929.5	4929.5	4929.5
2.5°	4904.3	4909.4	4914.4	4922.0	4932.1	4947.2	4957.3	4964.8	4985.0	4987.5	4985.0
5°	4886.7	4891.7	4904.3	4927.0	4959.8	5005.2	5040.5	5083.4	5116.1	5138.8	5133.8
7.5°	4884.2	4894.2	4914.4	4962.3	5025.4	5103.5	5184.2	5257.3	5320.4	5370.8	5363.2
10°	4924.5	4937.1	4969.9	5040.5	5138.8	5252.3	5365.8	5474.2	5565.0	5630.5	5653.2
12.5°	4992.6	5002.7	5063.2	5169.1	5310.3	5451.5	5580.1	5713.7	5839.8	5950.7	5950.7
15°	5111.1	5128.7	5204.4	5358.2	5532.2	5696.1	5827.2	5968.4	6104.6	6230.6	6268.5
17.5°	5275.0	5300.2	5413.7	5610.3	5832.2	5983.5	6107.1	6223.1	6341.6	6462.6	6480.3
20°	5499.4	5524.6	5675.9	5912.9	6175.2	6356.7	6439.9	6467.7	6525.7	6641.6	6656.8
22.5°	5804.5	5829.7	5998.7	6265.9	6558.4	6755.1	6790.4	6724.8	6709.7	6800.5	6810.6
25°	6149.9	6172.6	6366.8	6654.2	6956.8	7171.2	7161.1	6999.7	6908.9	6964.4	6979.5
27.5°	6538.3	6571.0	6767.7	7065.3	7393.0	7582.2	7551.9	7317.4	7123.2	7113.2	7118.2
30°	7035.0	7070.3	7256.9	7541.8	7864.6	8038.6	7975.5	7660.3	7360.3	7259.4	7259.4
32.5°	7559.5	7647.7	7836.8	8134.4	8386.5	8512.6	8416.8	8038.6	7640.2	7499.0	7491.4
35°	8242.8	8290.7	8477.3	8767.3	8956.4	9054.7	8870.6	8464.7	8005.8	7839.4	7816.7
37.5°	8911.0	8951.3	9168.2	9445.6	9675.0	9670.0	9420.3	8971.5	8459.6	8273.1	8257.9
40°	9594.3	9637.2	9884.3	10139.0	10368.4	10348.2	10045.7	9543.9	8999.2	8790.0	8830.3
42.5°	10186.9	10234.8	10514.7	10877.8	11084.5	11079.5	10729.0	10164.2	9596.8	9410.3	9445.6
45°	10726.5	10769.3	11094.6	11510.7	11813.2	11851.1	11467.8	10870.2	10287.7	10048.2	10058.3
47.5°	11107.2	11187.9	11528.3	12004.9	12415.9	12549.5	12173.8	11588.8	10918.1	10668.5	10683.6
50°	11397.2	11447.6	11818.3	12360.4	12879.8	13157.2	12854.6	12254.5	11548.5	11283.7	11319.0
52.5°	11432.5	11493.0	11896.5	12521.8	13187.5	13608.6	13459.8	12905.1	12191.5	11919.1	11994.8
55°	11145.0	11180.3	11662.0	12420.9	13308.5	13943.9	13981.7	13510.2	12804.2	12597.4	12647.9
57.5°	10325.6	10416.3	11026.5	11949.4	13142.1	14122.9	14372.6	14059.9	13424.5	13220.2	13300.9
60°	8981.6	9072.4	9685.1	10855.1	12514.2	14039.7	14695.3	14546.6	13986.8	13822.9	13865.7
62.5°	7037.5	7030.0	7788.9	9223.7	11266.1	13631.2	14934.9	15015.6	14541.5	14334.7	14400.3
65°	4561.4	4584.1	5317.9	6863.5	9382.5	12592.4	14987.8	15613.1	15086.2	14773.5	14821.4
66°	3668.8	3736.9	4359.7	5784.3	8421.8	11911.6	14829.0	15789.7	15252.6	14874.3	14897.0
67.5°	2708.1	2695.5	3207.4	4306.7	6724.8	10618.1	14332.2	15900.6	15441.7	14965.1	14975.2
70°	1545.7	1543.2	1724.7	2365.2	3953.7	7476.3	12080.5	15368.6	15825.0	15292.9	15265.2
72.5°	1129.6	1122.1	1147.3	1306.1	1928.9	3774.7	8333.6	13432.0	15628.3	15240.0	15161.8
75°	948.1	943.0	938.0	958.2	1081.7	1709.6	4422.7	9662.4	13560.6	14304.5	14223.8
77.5°	774.1	774.1	776.6	771.6	776.6	900.2	1833.1	5179.2	8257.9	9218.6	9443.0
80°	605.2	602.6	645.5	627.9	587.5	577.4	811.9	1666.7	2740.9	2725.7	2249.2
82.5°	446.3	416.0	491.7	479.1	433.7	368.1	474.0	711.1	915.3	595.1	441.3
85°	282.4	279.9	348.0	317.7	264.8	174.0	226.9	305.1	378.2	229.5	186.6
87.5°	50.4	47.9	110.9	80.7	80.7	50.4	63.0	83.2	123.6	85.7	63.0
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)