

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: P459051

Luminaire Tested: **GALN-SA5C-735-U-T1**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459051  
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-SA5C-735-U-T1  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 32740 lumens  
Efficiency: N/A  
Efficacy: 121.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G5

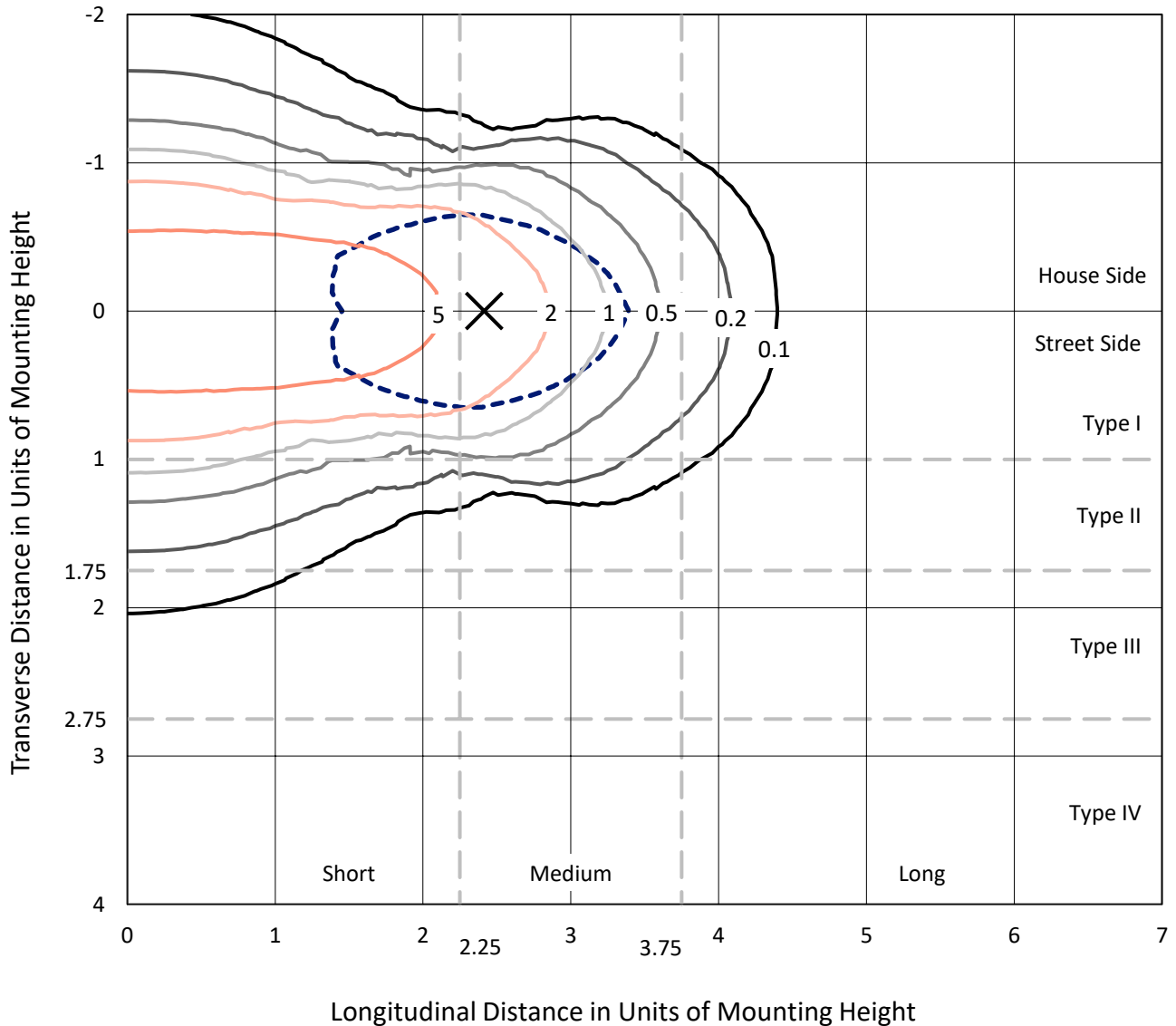
Input Watts (W): 269  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

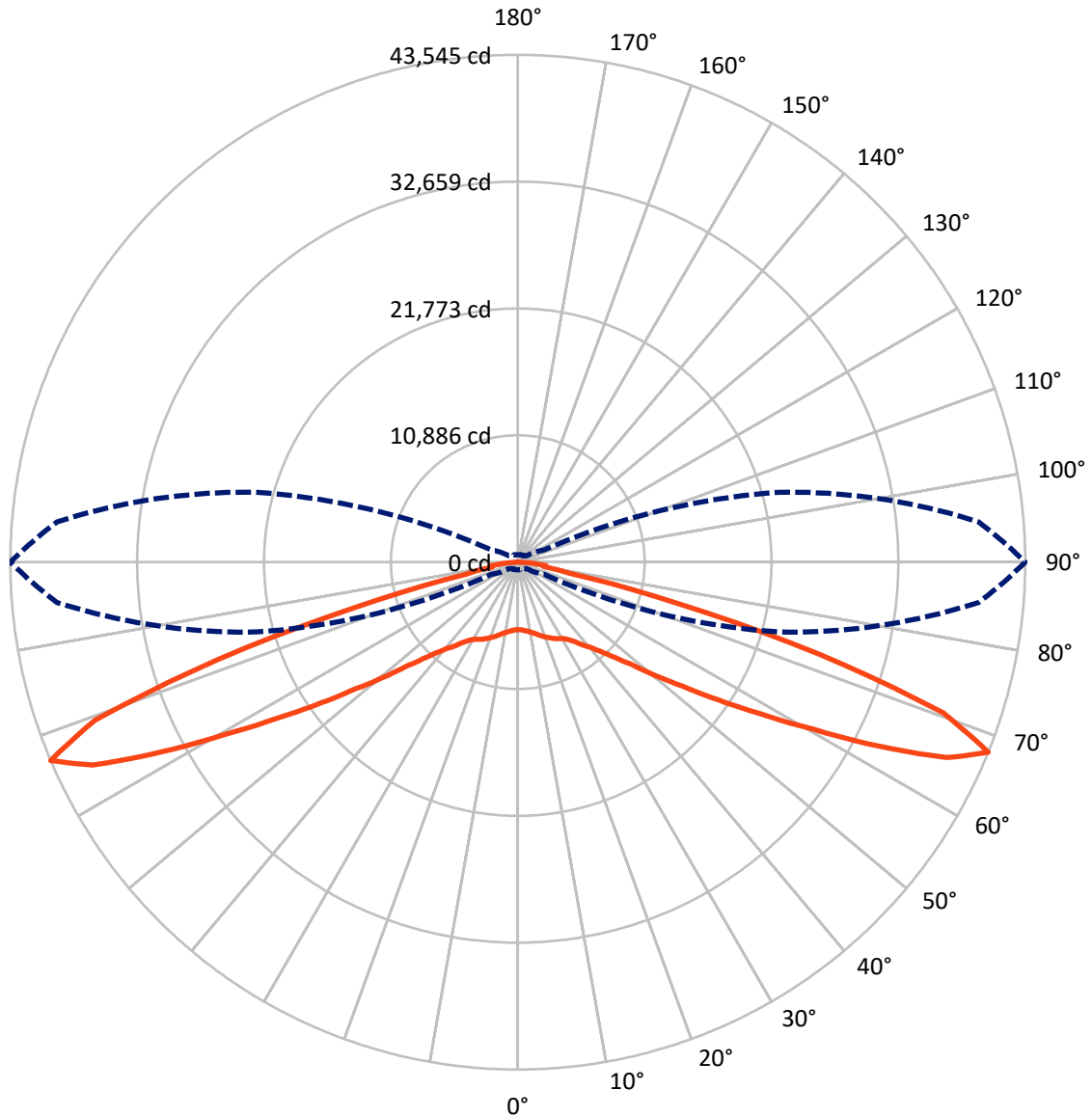
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 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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CATALOG NUMBER: GALN-SA5C-735-U-T1

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	16370.0	0.0	16370.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	16370.0	0.0	16370.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	32740.0	0.0	32740.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	577.9	1.8
10°-20°	1848.8	5.6
20°-30°	3094.5	9.5
30°-40°	4192.2	12.8
40°-50°	5310.1	16.2
50°-60°	6633.7	20.3
60°-70°	7797.6	23.8
70°-80°	2982.9	9.1
80°-90°	302.2	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°	32740.0	100.0
0°-180°	32740.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P459051

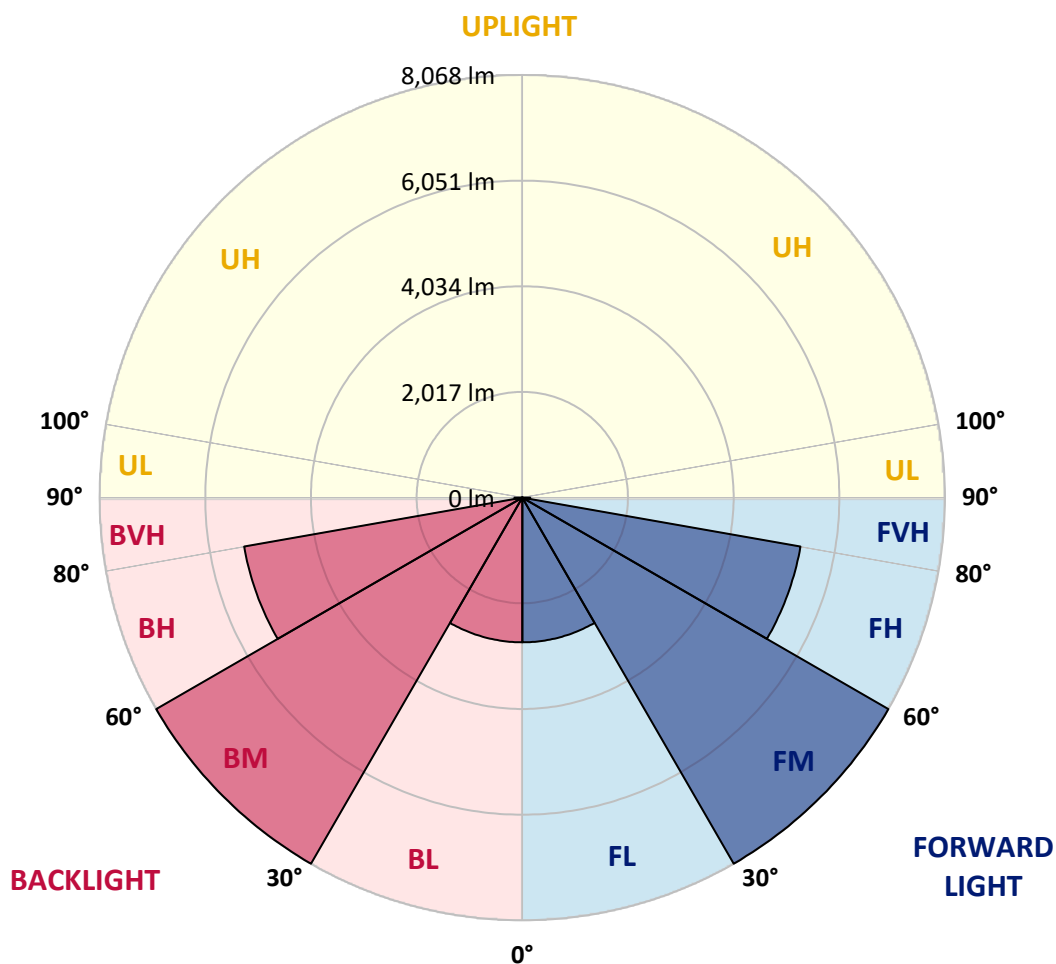
CATALOG NUMBER: GALN-SA5C-735-U-T1

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2760.6	8.4			
FM (30°-60°)	8068.0	24.6			
FH (60°-80°)	5390.3	16.5			G3/7500
FVH (80°-90°)	151.1	0.5			G2/225
BL (0°-30°)	2760.6	8.4	B4/5000		
BM (30°-60°)	8068.0	24.6	B4/8500		
BH (60°-80°)	5390.3	16.5	B5		G5
BVH (80°-90°)	151.1	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°	5796.0	5796.0	5796.0	5796.0	5796.0	5796.0	5796.0	5796.0	5796.0	5796.0	5796.0
2.5°	5870.3	5866.7	5868.5	5866.7	5872.1	5868.5	5846.8	5828.6	5814.1	5815.9	5810.5
5°	5995.4	5997.2	5999.0	5990.0	6002.7	5995.4	5961.0	5932.0	5903.0	5892.1	5888.5
7.5°	6098.8	6107.8	6113.3	6122.3	6144.1	6144.1	6126.0	6084.3	6020.8	5984.5	5982.7
10°	6202.1	6209.4	6225.7	6254.7	6290.9	6325.4	6318.1	6261.9	6180.3	6118.7	6104.2
12.5°	6238.4	6247.4	6301.8	6385.2	6466.8	6533.9	6533.9	6488.5	6383.4	6289.1	6261.9
15°	6111.5	6127.8	6225.7	6403.3	6617.3	6764.1	6796.7	6733.3	6620.9	6475.9	6443.2
17.5°	5859.5	5899.3	6042.6	6305.4	6660.8	6965.4	7059.6	7028.8	6883.8	6698.8	6660.8
20°	5589.3	5632.8	5785.1	6133.2	6624.5	7083.2	7356.9	7364.2	7184.7	6916.4	6860.2
22.5°	5292.0	5324.6	5520.4	5928.3	6515.7	7110.4	7612.6	7737.7	7494.7	7134.0	7054.2
25°	4958.4	4994.7	5199.5	5640.1	6310.9	7079.6	7846.4	8122.0	7819.3	7366.0	7264.5
27.5°	4639.3	4653.8	4873.2	5321.0	6040.7	6999.8	8018.7	8475.5	8178.2	7558.2	7429.5
30°	4332.9	4367.4	4561.4	5003.7	5730.7	6843.9	8167.3	8878.0	8564.4	7759.4	7594.4
32.5°	4008.4	4050.1	4260.4	4708.2	5420.7	6610.0	8258.0	9318.6	9102.8	8085.8	7909.9
35°	3696.6	3723.8	3935.9	4371.0	5118.0	6338.1	8274.3	9815.3	9797.2	8580.7	8346.8
37.5°	3377.5	3417.4	3631.3	4048.3	4797.1	6049.8	8192.7	10342.9	10634.8	9267.8	9015.8
40°	3071.1	3105.6	3315.9	3736.5	4432.7	5698.1	7998.7	10825.1	11611.9	9974.8	9617.7
42.5°	2737.6	2746.6	2976.9	3404.7	4075.5	5290.2	7719.5	11254.8	12701.5	10923.0	10478.8
45°	2358.6	2382.2	2596.1	3016.7	3665.8	4833.3	7340.6	11610.1	14083.0	12237.4	11631.9
47.5°	1979.7	1999.7	2195.5	2610.6	3218.0	4309.4	6756.9	11922.0	15500.7	13907.1	13113.1
50°	1609.9	1620.8	1780.3	2148.3	2714.0	3758.2	6033.5	12021.7	17103.4	16271.2	15257.8
52.5°	1272.7	1289.0	1410.5	1698.7	2175.5	3107.4	5252.1	11775.1	18974.3	19074.0	17645.4
55°	1031.6	1037.0	1127.7	1339.8	1700.5	2425.7	4309.4	11088.0	20986.7	22665.5	20843.5
57.5°	888.3	892.0	942.7	1060.6	1308.9	1829.3	3343.1	9788.1	22794.2	26873.3	24531.0
60°	806.8	808.6	837.6	906.5	1037.0	1403.2	2394.9	7953.4	24578.2	31556.2	29114.2
62.5°	756.0	756.0	775.9	814.0	877.5	1076.9	1735.0	5738.0	25800.1	36307.9	34763.3
65°	707.1	707.1	721.6	748.7	783.2	881.1	1281.8	3741.9	25769.3	39768.9	40445.1
67.5°	650.8	650.8	661.7	688.9	708.9	757.8	989.9	2451.1	23147.7	39692.7	43545.2
70°	583.8	583.8	598.3	621.8	638.2	669.0	781.4	1677.0	17005.5	33891.3	38726.4
72.5°	516.7	518.5	527.6	551.1	563.8	582.0	649.0	1174.8	10431.7	23077.0	27078.2
75°	442.4	446.0	455.1	478.6	489.5	496.7	547.5	837.6	5277.5	12442.3	14166.4
77.5°	357.2	364.4	369.8	395.2	402.5	413.4	451.4	605.5	2316.9	4470.7	4510.6
80°	261.1	270.1	286.4	310.0	315.5	322.7	344.5	429.7	1049.7	2041.4	2217.2
82.5°	192.2	204.9	184.9	215.7	215.7	206.7	242.9	288.3	482.2	2021.4	2418.5
85°	105.2	107.0	96.1	110.6	117.8	116.0	128.7	141.4	233.9	1348.8	1390.5
87.5°	25.4	27.2	29.0	34.4	41.7	41.7	45.3	39.9	76.1	436.9	250.2
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)