

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: P459196

Luminaire Tested: **GALN-SA6D-735-U-T1**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459196  
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-SA6D-735-U-T1  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 42658 lumens  
Efficiency: N/A  
Efficacy: 115.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G5

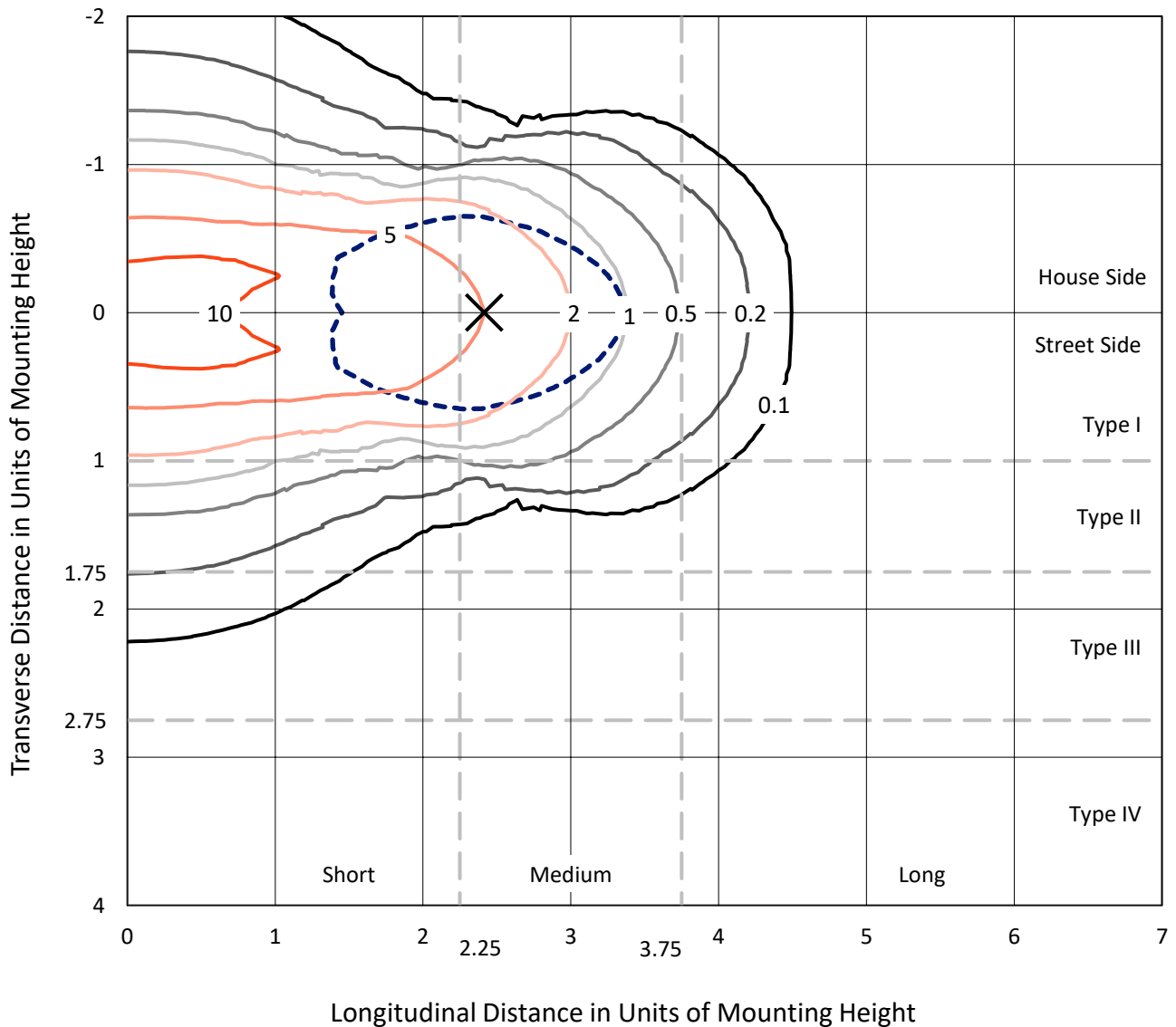
Input Watts (W): 368  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

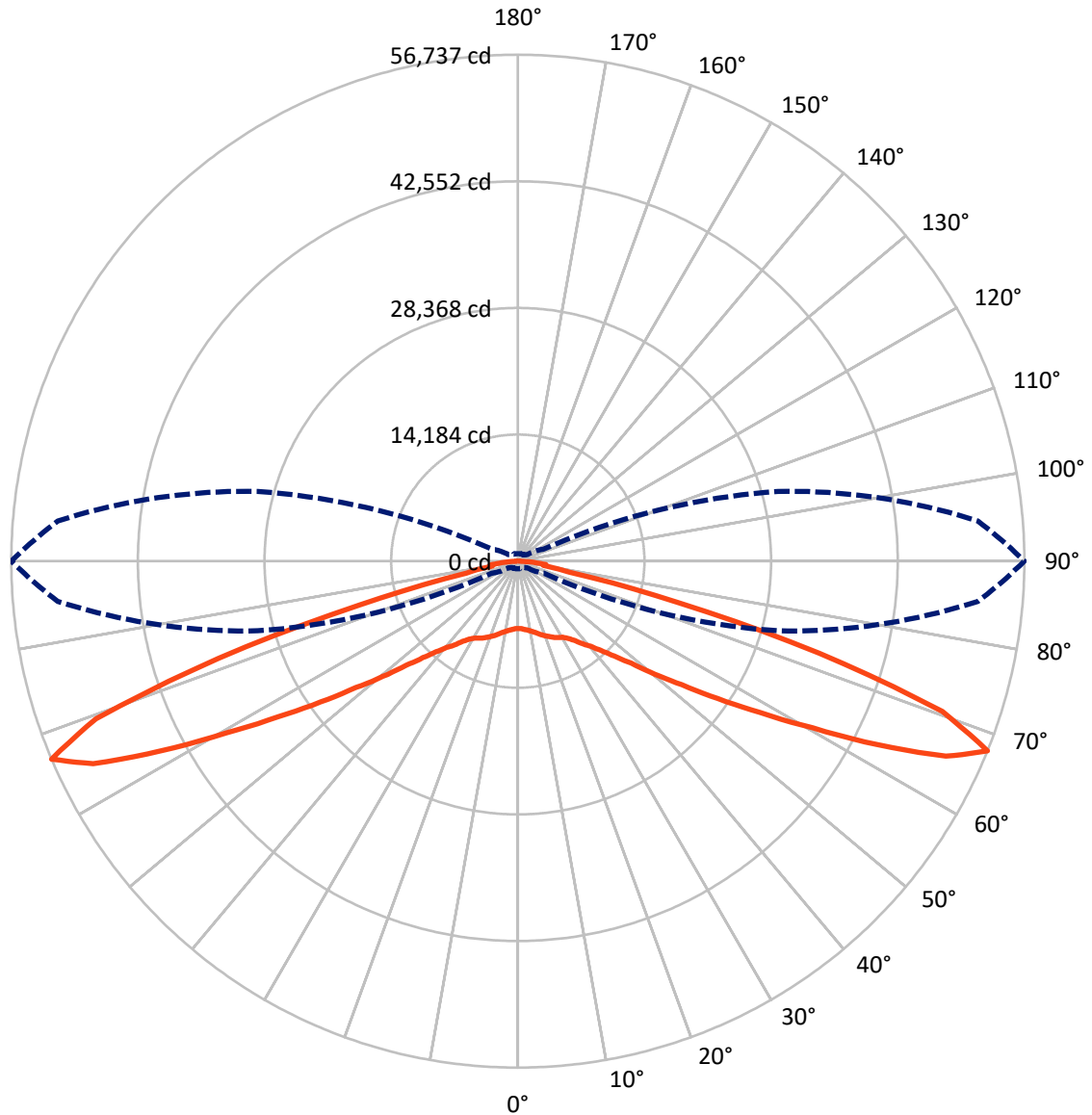
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 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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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	21329.0	0.0	21329.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	21329.0	0.0	21329.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	42658.0	0.0	42658.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	752.9	1.8
10°-20°	2408.9	5.6
20°-30°	4031.9	9.5
30°-40°	5462.2	12.8
40°-50°	6918.7	16.2
50°-60°	8643.3	20.3
60°-70°	10159.8	23.8
70°-80°	3886.6	9.1
80°-90°	393.7	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°	42658.0	100.0
0°-180°	42658.0	100.0

**Coefficient of Utilization**



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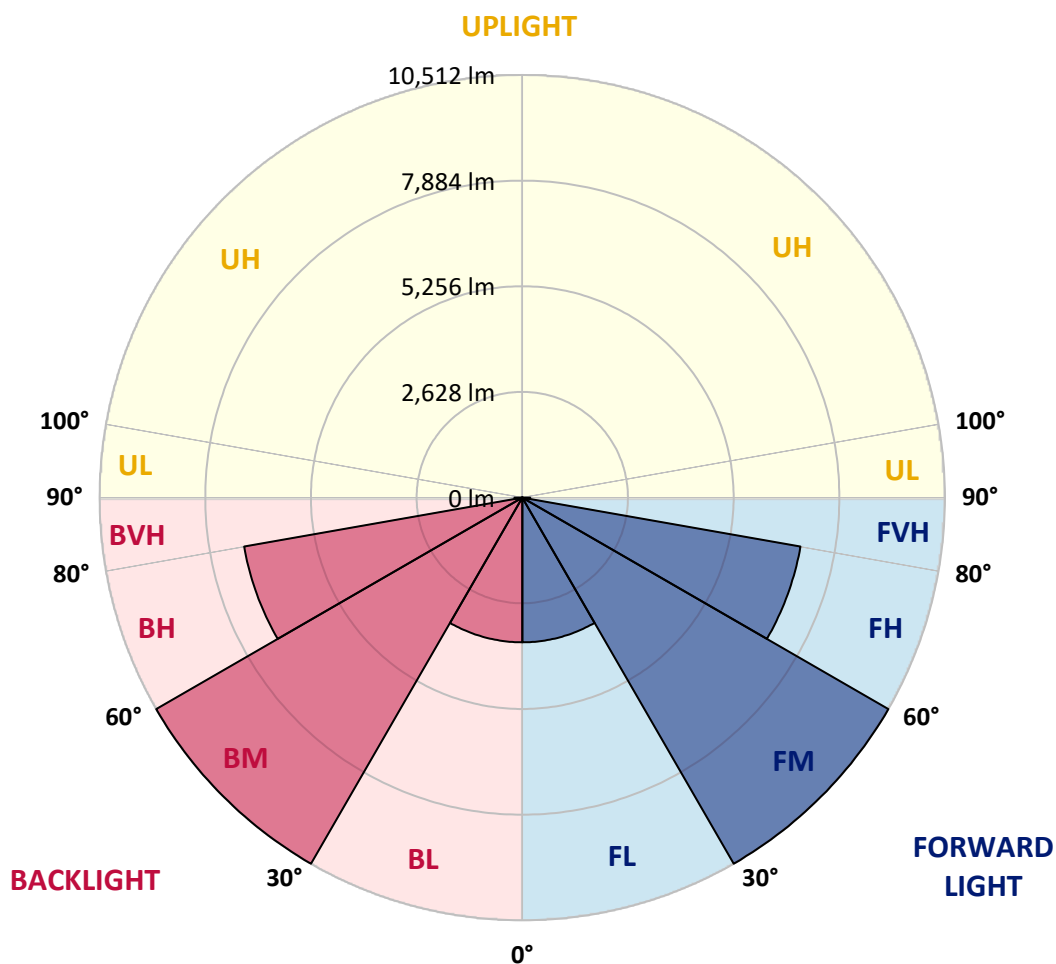
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3596.9	8.4			
FM	(30°-60°)	10512.1	24.6			
FH	(60°-80°)	7023.2	16.5			G3/7500
FVH	(80°-90°)	196.9	0.5			G2/225
BL	(0°-30°)	3596.9	8.4	B4/5000		
BM	(30°-60°)	10512.1	24.6	B5		
BH	(60°-80°)	7023.2	16.5	B5		G5
BVH	(80°-90°)	196.9	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°	7551.8	7551.8	7551.8	7551.8	7551.8	7551.8	7551.8	7551.8	7551.8	7551.8	7551.8
2.5°	7648.6	7643.9	7646.3	7643.9	7651.0	7646.3	7617.9	7594.3	7575.4	7577.8	7570.7
5°	7811.6	7814.0	7816.4	7804.5	7821.1	7811.6	7766.7	7729.0	7691.2	7677.0	7672.3
7.5°	7946.3	7958.1	7965.2	7977.0	8005.3	8005.3	7981.7	7927.4	7844.7	7797.5	7795.1
10°	8080.9	8090.4	8111.6	8149.4	8196.7	8241.5	8232.1	8158.9	8052.6	7972.3	7953.4
12.5°	8128.2	8140.0	8210.8	8319.5	8425.8	8513.2	8513.2	8454.1	8317.1	8194.3	8158.9
15°	7962.8	7984.1	8111.6	8343.1	8621.8	8813.2	8855.7	8773.0	8626.6	8437.6	8395.1
17.5°	7634.5	7686.4	7873.0	8215.6	8678.5	9075.4	9198.2	9158.1	8969.1	8728.1	8678.5
20°	7282.5	7339.2	7537.6	7991.2	8631.3	9228.9	9585.6	9595.1	9361.2	9011.6	8938.4
22.5°	6895.1	6937.6	7192.7	7724.2	8489.6	9264.4	9918.7	10081.7	9765.1	9295.1	9191.1
25°	6460.5	6507.7	6774.6	7348.6	8222.6	9224.2	10223.4	10582.4	10188.0	9597.4	9465.1
27.5°	6044.7	6063.6	6349.5	6932.9	7870.7	9120.3	10447.8	11043.1	10655.7	9847.8	9680.1
30°	5645.5	5690.4	5943.2	6519.5	7466.8	8917.1	10641.5	11567.4	11158.8	10110.0	9895.0
32.5°	5222.7	5277.0	5551.1	6134.5	7062.8	8612.4	10759.6	12141.5	11860.4	10535.2	10306.1
35°	4816.4	4851.9	5128.2	5695.1	6668.3	8258.1	10780.9	12788.7	12765.1	11180.1	10875.3
37.5°	4400.7	4452.7	4731.4	5274.7	6250.2	7882.5	10674.6	13476.1	13856.4	12075.3	11747.0
40°	4001.5	4046.4	4320.4	4868.4	5775.5	7424.2	10421.8	14104.4	15129.6	12996.6	12531.2
42.5°	3566.8	3578.7	3878.7	4436.1	5310.1	6892.8	10058.0	14664.2	16549.2	14232.0	13653.2
45°	3073.2	3103.9	3382.6	3930.6	4776.3	6297.5	9564.3	15127.2	18349.2	15944.5	15155.6
47.5°	2579.5	2605.5	2860.6	3401.5	4192.8	5614.8	8803.7	15533.5	20196.4	18120.1	17085.4
50°	2097.6	2111.8	2319.6	2799.1	3536.1	4896.7	7861.2	15663.4	22284.5	21200.3	19879.9
52.5°	1658.2	1679.5	1837.8	2213.3	2834.6	4048.7	6843.1	15342.2	24722.3	24852.2	22990.8
55°	1344.1	1351.1	1469.3	1745.6	2215.7	3160.6	5614.8	14446.9	27344.3	29531.6	27157.6
57.5°	1157.5	1162.2	1228.3	1381.9	1705.5	2383.4	4355.8	12753.2	29699.3	35014.2	31962.3
60°	1051.2	1053.5	1091.3	1181.1	1351.1	1828.3	3120.4	10362.8	32023.7	41115.6	37933.8
62.5°	985.0	985.0	1011.0	1060.6	1143.3	1403.1	2260.6	7476.2	33615.8	47306.8	45294.2
65°	921.2	921.2	940.1	975.6	1020.4	1148.0	1670.0	4875.5	33575.6	51816.1	52697.2
67.5°	848.0	848.0	862.2	897.6	923.6	987.4	1289.7	3193.6	30159.9	51716.9	56736.5
70°	760.6	760.6	779.5	810.2	831.5	871.6	1018.1	2185.0	22157.0	44158.0	50457.9
72.5°	673.2	675.6	687.4	718.1	734.6	758.3	845.6	1530.7	13591.8	30067.8	35281.1
75°	576.4	581.1	592.9	623.6	637.8	647.2	713.4	1091.3	6876.2	16211.4	18457.8
77.5°	465.3	474.8	481.9	514.9	524.4	538.6	588.2	789.0	3018.8	5825.1	5877.0
80°	340.1	352.0	373.2	403.9	411.0	420.5	448.8	559.8	1367.7	2659.8	2888.9
82.5°	250.4	266.9	240.9	281.1	281.1	269.3	316.5	375.6	628.3	2633.8	3151.1
85°	137.0	139.4	125.2	144.1	153.5	151.2	167.7	184.2	304.7	1757.4	1811.8
87.5°	33.1	35.4	37.8	44.9	54.3	54.3	59.1	52.0	99.2	569.3	326.0
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)