

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: P647529

Luminaire Tested: **GALN-SA7D-835-U-5MQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647529  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7D-835-U-5MQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
MEDIUM OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 37238.7 lumens  
Efficiency: N/A  
Efficacy: 86.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G2

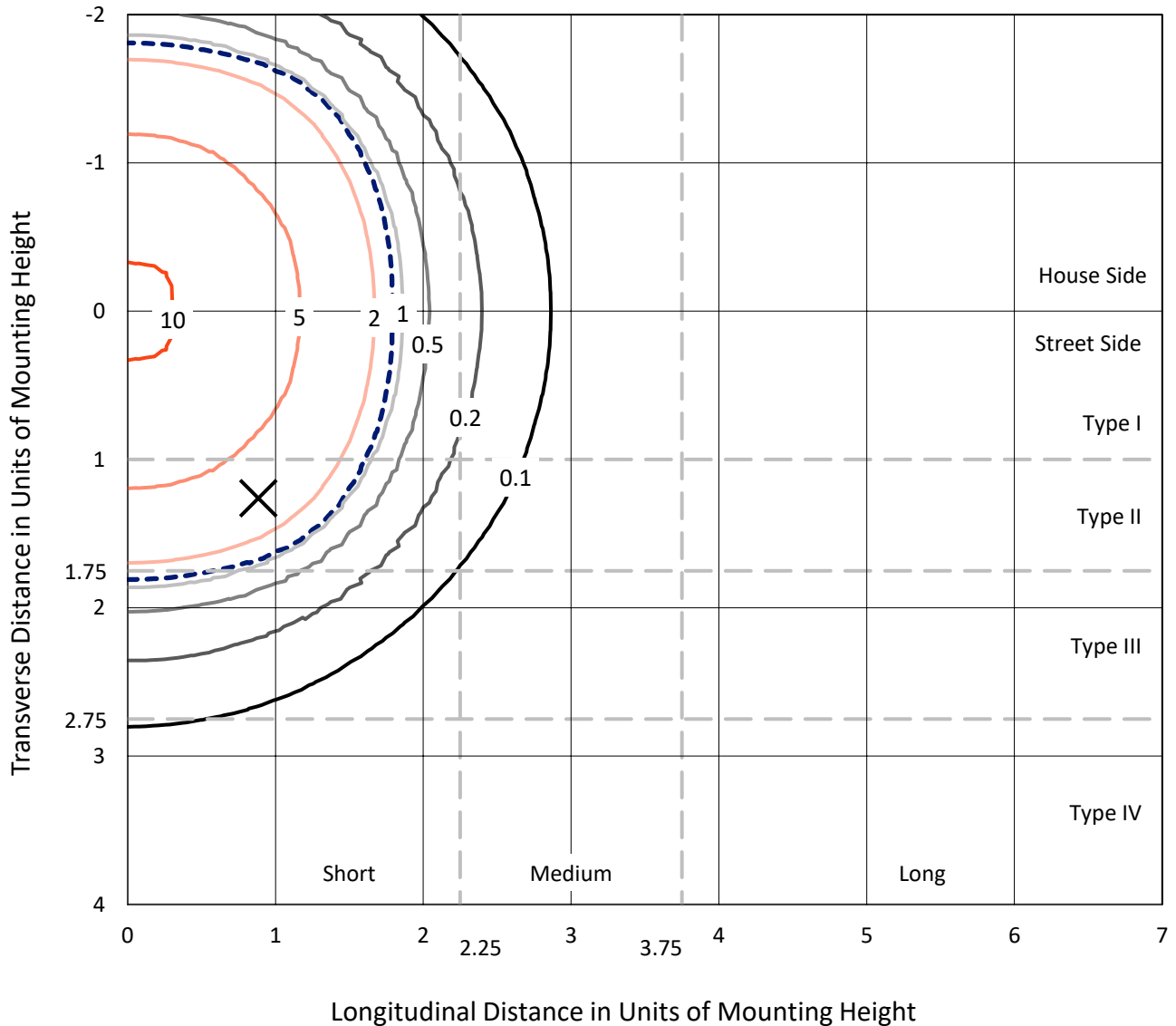
Input Watts (W): 433  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

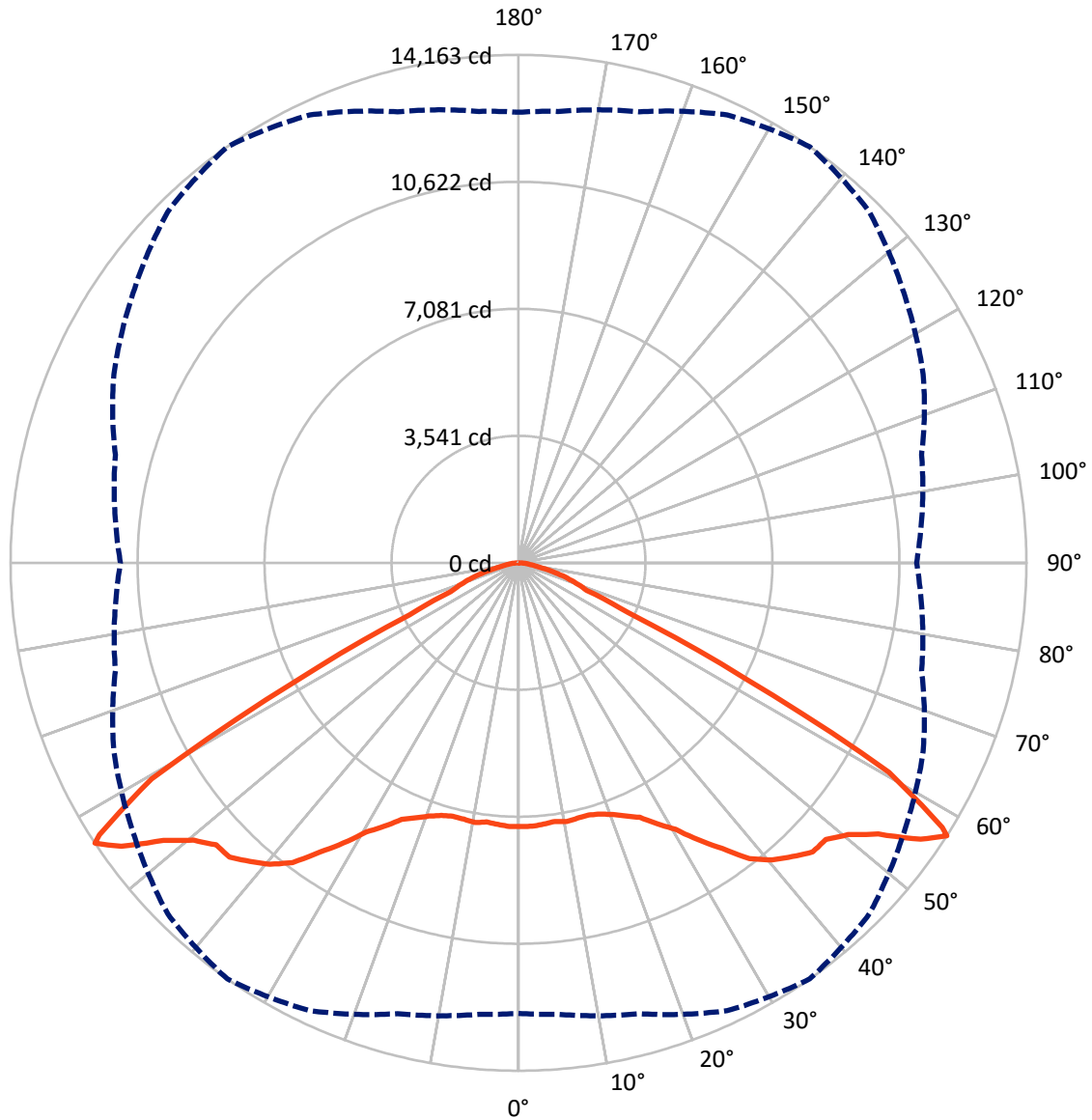
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 57-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	18619.3	0.0	18619.3
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	18619.3	0.0	18619.3
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	37238.7	0.0	37238.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	697.2	1.9
10°-20°	2065.0	5.5
20°-30°	3606.4	9.7
30°-40°	5909.2	15.9
40°-50°	8664.4	23.3
50°-60°	10913.5	29.3
60°-70°	4104.5	11.0
70°-80°	1091.3	2.9
80°-90°	187.1	0.5
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°	37238.7	100.0
0°-180°	37238.7	100.0

**Coefficient of Utilization**



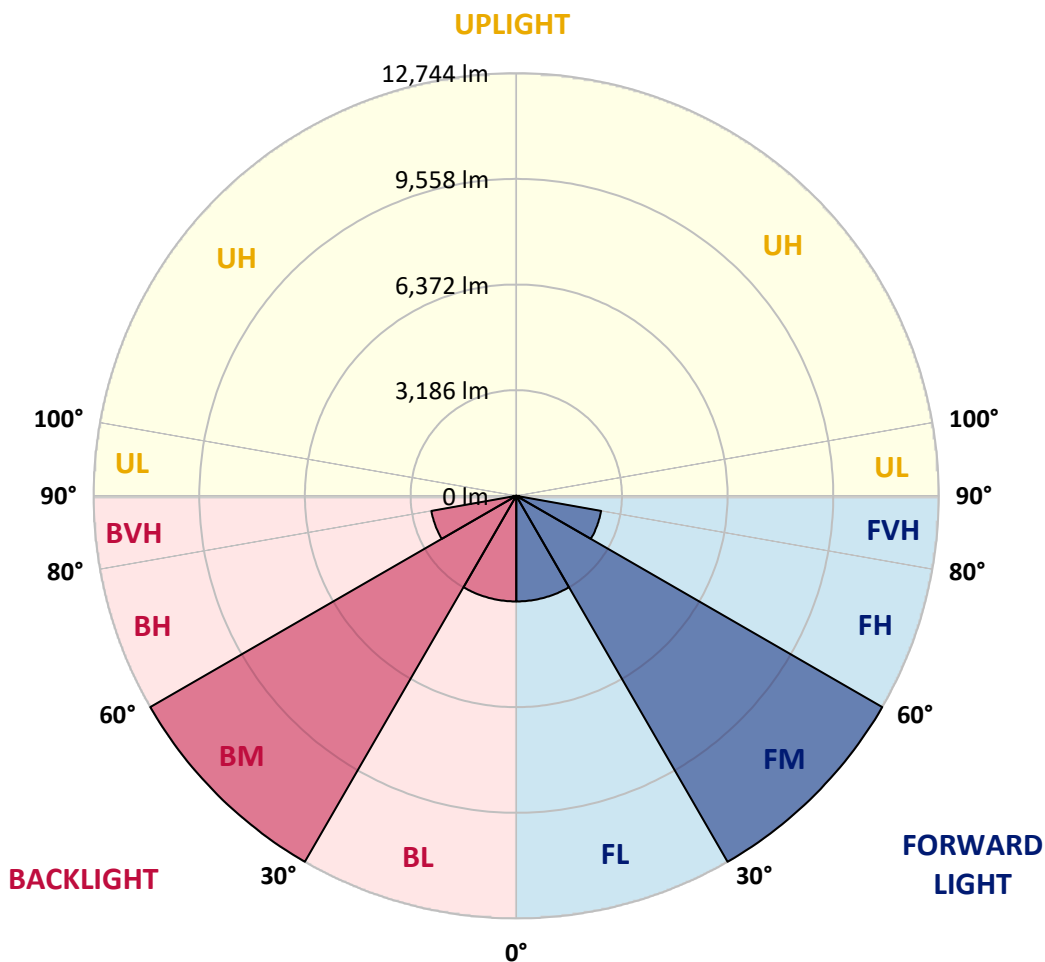
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3184.3	8.6			
FM (30°-60°)	12743.6	34.2			
FH (60°-80°)	2597.9	7.0			G2/5000
FVH (80°-90°)	93.6	0.3			G1/100
BL (0°-30°)	3184.3	8.6	B4/5000		
BM (30°-60°)	12743.6	34.2	B5		
BH (60°-80°)	2597.9	7.0	B4/5000		G2/5000
BVH (80°-90°)	93.6	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7354.4	7354.4	7354.4	7354.4	7354.4	7354.4	7354.4	7354.4	7354.4	7354.4	7354.4
2.5°	7317.7	7391.1	7358.9	7340.6	7354.4	7331.5	7294.7	7336.0	7326.8	7290.1	7276.3
5°	7299.3	7354.4	7317.7	7354.4	7317.7	7381.9	7363.6	7294.7	7377.3	7299.3	7326.8
7.5°	7285.6	7303.9	7313.1	7294.7	7281.0	7358.9	7317.7	7285.6	7239.7	7225.9	7248.9
10°	7253.4	7299.3	7230.5	7322.2	7340.6	7285.6	7285.6	7225.9	7189.2	7166.3	7244.2
12.5°	7336.0	7258.0	7248.9	7294.7	7308.5	7331.5	7267.2	7235.1	7166.3	7175.4	7161.7
15°	7239.7	7271.8	7276.3	7285.6	7299.3	7354.4	7294.7	7225.9	7198.4	7102.0	7111.2
17.5°	7276.3	7244.2	7276.3	7381.9	7363.6	7404.8	7340.6	7235.1	7170.9	7115.8	7189.2
20°	7340.6	7326.8	7340.6	7469.0	7492.0	7528.7	7473.7	7377.3	7253.4	7189.2	7225.9
22.5°	7409.5	7400.2	7409.5	7533.3	7666.4	7712.2	7657.2	7432.4	7368.1	7248.9	7207.6
25°	7533.3	7542.5	7638.8	7776.4	7863.6	7950.8	7849.9	7689.3	7482.8	7409.5	7322.2
27.5°	7808.5	7831.5	7886.5	8088.4	8239.8	8317.8	8175.6	7955.4	7826.9	7675.5	7652.6
30°	8148.1	8148.1	8244.4	8418.7	8625.2	8744.5	8570.2	8308.6	8152.7	8070.1	8019.6
32.5°	8597.7	8547.2	8584.0	8891.3	9212.5	9313.4	9079.4	8758.2	8510.5	8400.4	8363.7
35°	8983.0	9015.1	9097.8	9428.1	9785.9	10019.9	9652.9	9235.4	8983.0	8882.1	8863.8
37.5°	9483.1	9538.2	9579.5	10033.7	10465.0	10552.1	10198.9	9863.9	9556.5	9474.0	9428.1
40°	10189.6	10153.0	10166.7	10501.7	10891.6	10946.7	10598.0	10359.4	10107.1	10056.6	10056.6
42.5°	10772.4	10731.0	10776.9	10900.8	11199.0	11157.8	10965.1	10790.7	10685.1	10630.1	10685.1
45°	11125.6	11116.4	11199.0	11290.8	11501.8	11364.1	11212.8	11240.3	11139.3	11047.6	11043.0
47.5°	11511.0	11451.4	11552.3	11689.9	11529.4	11465.1	11455.9	11515.6	11483.5	11322.9	11272.4
50°	11699.1	11676.2	11836.7	11997.3	11910.1	11763.3	11795.4	11891.8	11478.9	11263.2	11139.3
52.5°	12203.8	12208.4	12515.7	12602.9	12566.2	12350.6	12419.4	12157.9	11671.6	11368.8	11382.5
55°	12997.5	12965.3	13309.4	13566.3	13607.7	13332.4	13002.0	12635.0	12024.8	11717.4	11625.7
57°	12561.6	12635.0	13015.8	13777.4	14162.7	13837.0	13116.7	12446.9	11634.8	11263.2	11098.1
57.5°	11979.0	12098.2	12758.9	13525.1	13928.8	13901.3	12974.5	12098.2	11373.4	10795.3	10809.0
60°	8776.6	8799.6	9396.0	10611.8	11873.4	11901.0	10772.4	9611.6	8804.1	8175.6	8262.8
62.5°	4629.2	4734.7	4973.2	5950.5	7042.4	7308.5	6624.9	6028.5	5331.1	4854.0	4899.9
65°	2449.9	2436.1	2550.9	2826.2	3362.9	3500.6	3408.8	2936.2	2693.1	2615.1	2619.7
67.5°	1991.2	2014.1	2000.3	2014.1	2050.8	2110.4	2096.6	2115.0	2128.7	2151.7	2147.1
70°	1688.3	1688.3	1697.5	1702.1	1702.1	1729.6	1761.8	1821.4	1826.0	1848.9	1858.1
72.5°	1330.5	1321.3	1335.1	1367.2	1371.7	1394.7	1440.6	1477.3	1491.1	1491.1	1463.5
75°	903.8	913.0	931.3	958.9	986.4	1027.7	1064.4	1087.4	1096.5	1082.7	1069.0
77.5°	509.3	518.4	532.2	573.5	605.6	642.3	683.6	706.5	729.4	734.1	706.5
80°	302.8	302.8	325.7	357.8	394.6	431.3	468.0	495.5	504.6	504.6	490.9
82.5°	183.5	188.1	206.5	238.6	270.7	293.6	325.7	348.7	367.0	362.5	353.3
85°	96.3	96.3	114.7	142.2	165.1	188.1	188.1	174.4	165.1	142.2	133.0
87.5°	32.1	27.6	36.7	36.7	32.1	36.7	36.7	41.3	41.3	41.3	41.3
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)