

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: P647562

Luminaire Tested: **GALN-SA7D-835-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647562
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-SA7D-835-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 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: 42115.2 lumens
Efficiency: N/A
Efficacy: 97.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

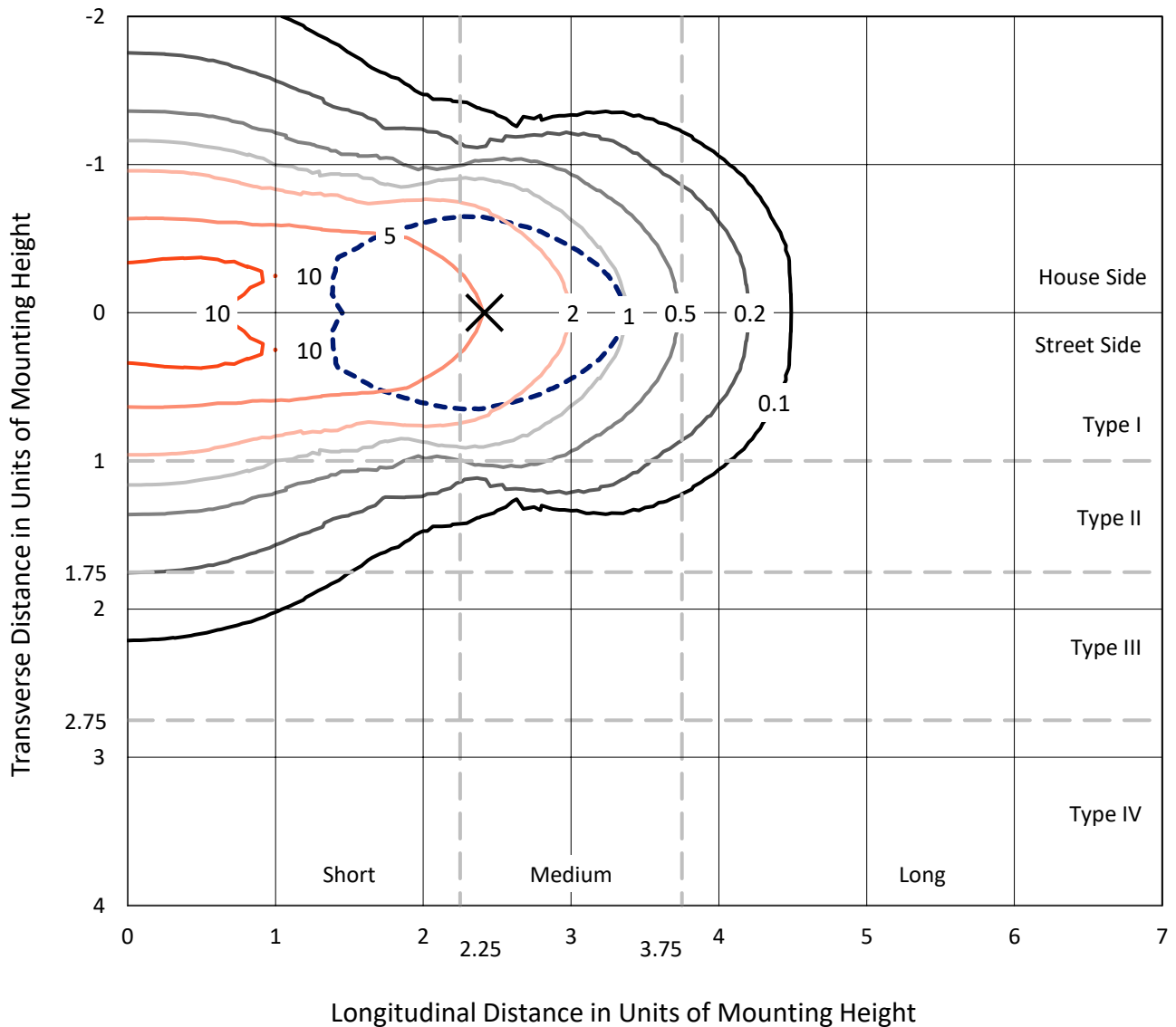
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

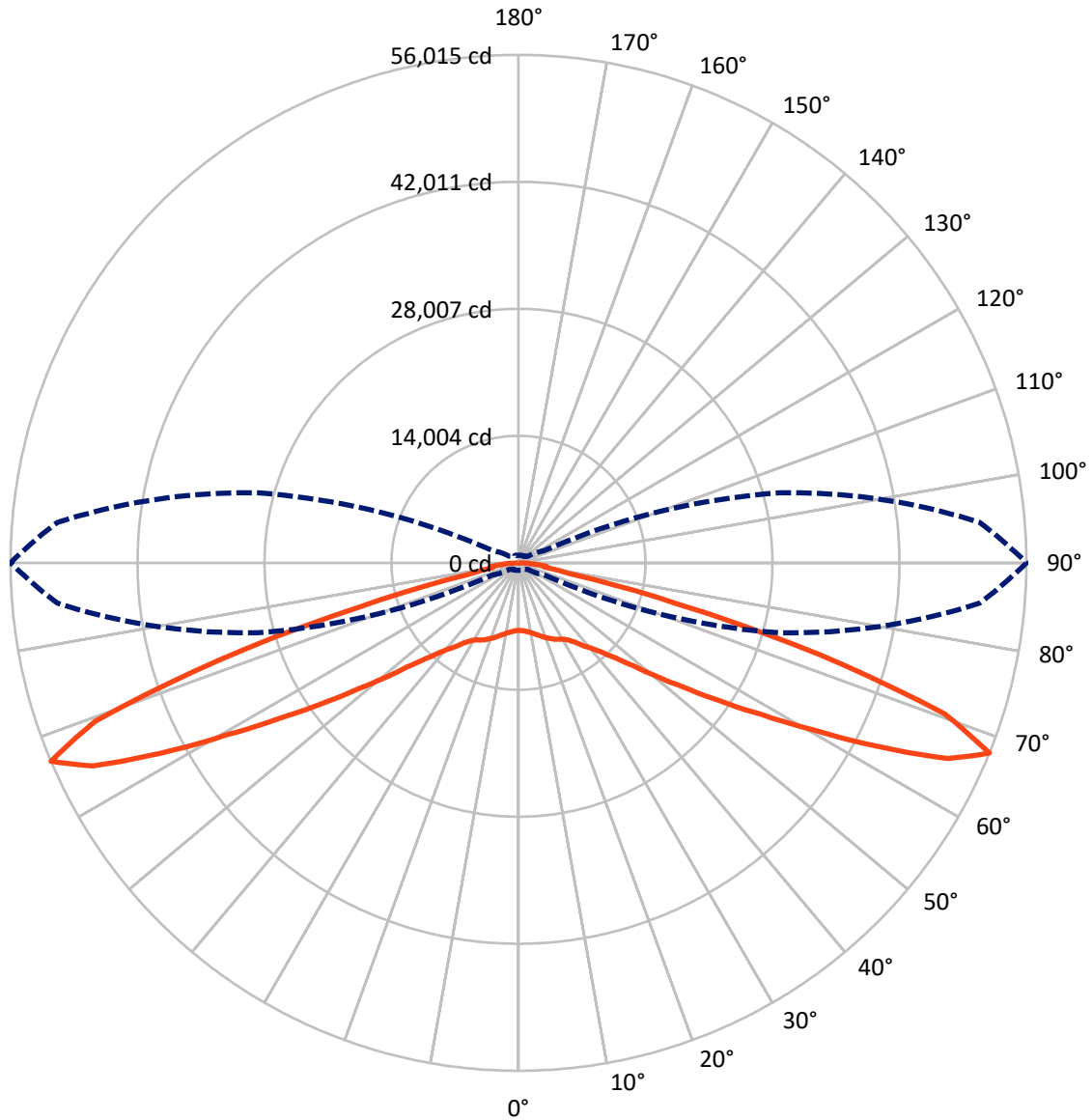
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.5 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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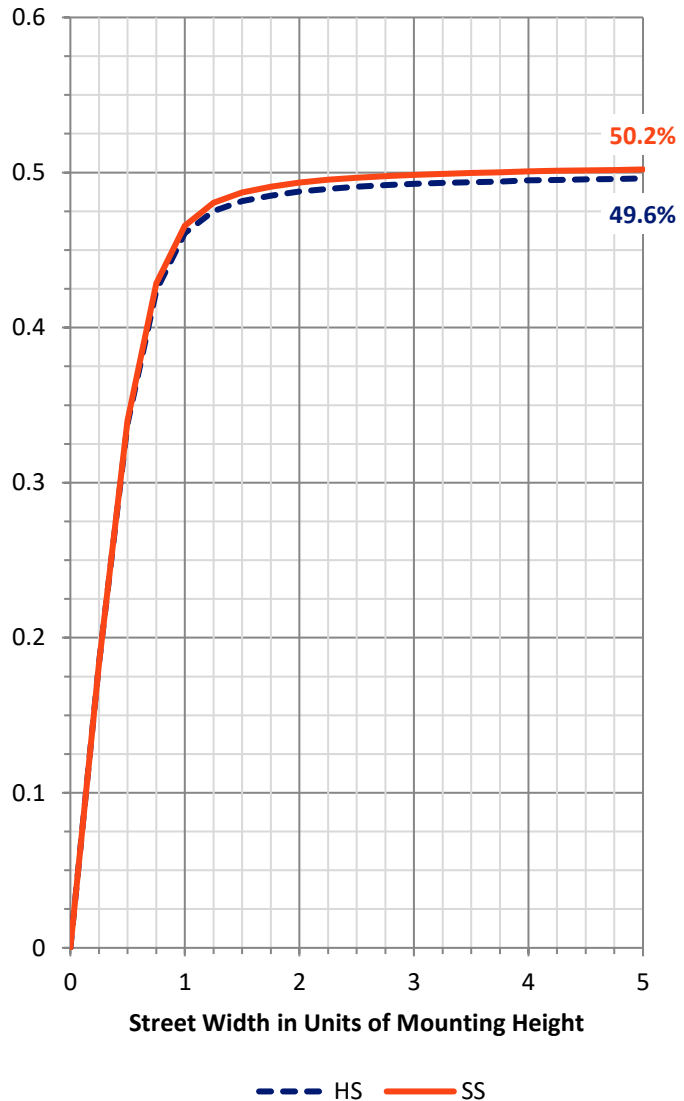
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	21057.6	0.0	21057.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	21057.6	0.0	21057.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	42115.2	0.0	42115.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	743.3	1.8
10°-20°	2378.3	5.6
20°-30°	3980.6	9.5
30°-40°	5392.7	12.8
40°-50°	6830.7	16.2
50°-60°	8533.3	20.3
60°-70°	10030.5	23.8
70°-80°	3837.1	9.1
80°-90°	388.7	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°	42115.2	100.0
0°-180°	42115.2	100.0

Coefficient of Utilization

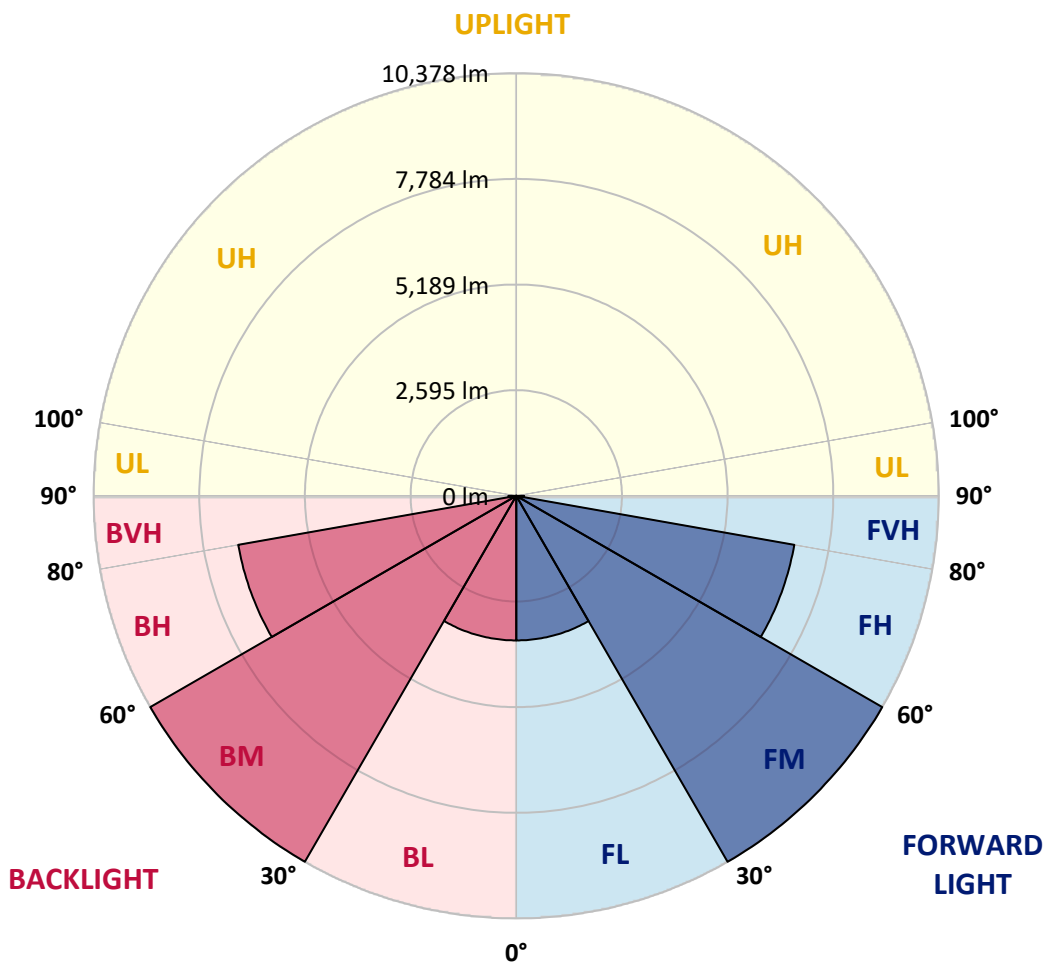


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3551.1	8.4			
FM	(30°-60°)	10378.3	24.6			
FH	(60°-80°)	6933.8	16.5			G3/7500
FVH	(80°-90°)	194.4	0.5			G2/225
BL	(0°-30°)	3551.1	8.4	B4/5000		
BM	(30°-60°)	10378.3	24.6	B5		
BH	(60°-80°)	6933.8	16.5	B5		G5
BVH	(80°-90°)	194.4	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°	7455.7	7455.7	7455.7	7455.7	7455.7	7455.7	7455.7	7455.7	7455.7	7455.7	7455.7
2.5°	7551.3	7546.6	7549.0	7546.6	7553.7	7549.0	7521.0	7497.7	7479.1	7481.3	7474.4
5°	7712.2	7714.6	7716.9	7705.3	7721.6	7712.2	7667.9	7630.6	7593.3	7579.3	7574.7
7.5°	7845.2	7856.9	7863.8	7875.5	7903.4	7903.4	7880.1	7826.5	7744.9	7698.2	7695.9
10°	7978.1	7987.5	8008.4	8045.7	8092.4	8136.7	8127.4	8055.0	7950.1	7870.8	7852.2
12.5°	8024.7	8036.4	8106.3	8213.7	8318.6	8404.9	8404.9	8346.5	8211.3	8090.0	8055.0
15°	7861.5	7882.5	8008.4	8236.9	8512.1	8701.0	8743.1	8661.4	8516.8	8330.3	8288.3
17.5°	7537.3	7588.6	7772.8	8111.0	8568.1	8959.9	9081.2	9041.5	8854.9	8617.1	8568.1
20°	7189.8	7245.8	7441.7	7889.5	8521.5	9111.5	9463.7	9473.0	9242.1	8896.9	8824.6
22.5°	6807.4	6849.4	7101.3	7626.0	8381.5	9146.5	9792.4	9953.3	9640.8	9176.8	9074.2
25°	6378.2	6424.9	6688.5	7255.1	8118.0	9106.8	10093.3	10447.8	10058.3	9475.3	9344.7
27.5°	5967.8	5986.5	6268.7	6844.7	7770.6	9004.2	10314.9	10902.6	10520.1	9722.5	9556.9
30°	5573.7	5618.0	5867.6	6436.6	7371.8	8803.7	10506.1	11420.3	11016.8	9981.4	9769.2
32.5°	5156.3	5209.9	5480.5	6056.4	6972.9	8502.8	10622.7	11986.9	11709.5	10401.1	10174.9
35°	4755.2	4790.2	5063.0	5622.6	6583.5	8153.0	10643.7	12626.0	12602.6	11037.8	10737.0
37.5°	4344.7	4396.0	4671.2	5207.6	6170.7	7782.2	10538.7	13304.6	13680.0	11921.6	11597.5
40°	3950.5	3994.9	4265.4	4806.4	5702.0	7329.7	10289.2	13925.0	14937.1	12831.2	12371.8
42.5°	3521.5	3533.1	3829.3	4379.7	5242.6	6805.1	9930.1	14477.7	16338.6	14050.9	13479.5
45°	3034.0	3064.3	3339.6	3880.6	4715.5	6217.3	9442.7	14934.7	18115.7	15741.7	14962.7
47.5°	2546.6	2572.3	2824.2	3358.2	4139.5	5543.4	8691.7	15335.8	19939.4	17889.5	16868.0
50°	2070.9	2084.9	2290.1	2763.5	3491.2	4834.4	7761.2	15464.1	22001.0	20930.5	19626.9
52.5°	1637.1	1658.1	1814.4	2185.2	2798.5	3997.2	6756.1	15147.0	24407.7	24535.9	22698.3
55°	1327.0	1333.9	1450.6	1723.4	2187.5	3120.3	5543.4	14263.0	26996.4	29155.9	26812.1
57.5°	1142.7	1147.4	1212.7	1364.3	1683.8	2353.1	4300.4	12591.0	29321.4	34568.7	31555.6
60°	1037.8	1040.1	1077.4	1166.0	1333.9	1805.0	3080.7	10230.9	31616.2	40592.4	37451.1
62.5°	972.5	972.5	998.2	1047.1	1128.7	1385.3	2231.8	7381.1	33188.0	46704.9	44717.9
65°	909.5	909.5	928.2	963.2	1007.5	1133.4	1648.8	4813.4	33148.4	51156.8	52026.7
67.5°	837.2	837.2	851.2	886.2	911.9	974.8	1273.3	3153.0	29776.2	51058.9	56014.6
70°	750.9	750.9	769.6	799.9	820.9	860.5	1005.1	2157.2	21875.1	43596.2	49815.9
72.5°	664.6	667.0	678.6	708.9	725.3	748.6	834.9	1511.2	13418.9	29685.3	34832.1
75°	569.0	573.7	585.4	615.7	629.7	639.0	704.3	1077.4	6788.7	16005.1	18223.0
77.5°	459.4	468.8	475.8	508.4	517.7	531.7	580.7	778.9	2980.4	5751.0	5802.3
80°	335.8	347.5	368.5	398.8	405.8	415.1	443.1	552.7	1350.3	2625.9	2852.2
82.5°	247.2	263.6	237.9	277.5	277.5	265.8	312.5	370.8	620.4	2600.3	3111.0
85°	135.2	137.6	123.6	142.3	151.6	149.2	165.6	181.9	300.8	1735.0	1788.7
87.5°	32.7	35.0	37.3	44.3	53.6	53.6	58.3	51.3	98.0	562.0	321.8
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)