

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: P459370

Luminaire Tested: **GALN-SA8B-735-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459370
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-SA8B-735-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42728 lumens
Efficiency: N/A
Efficacy: 131.5 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

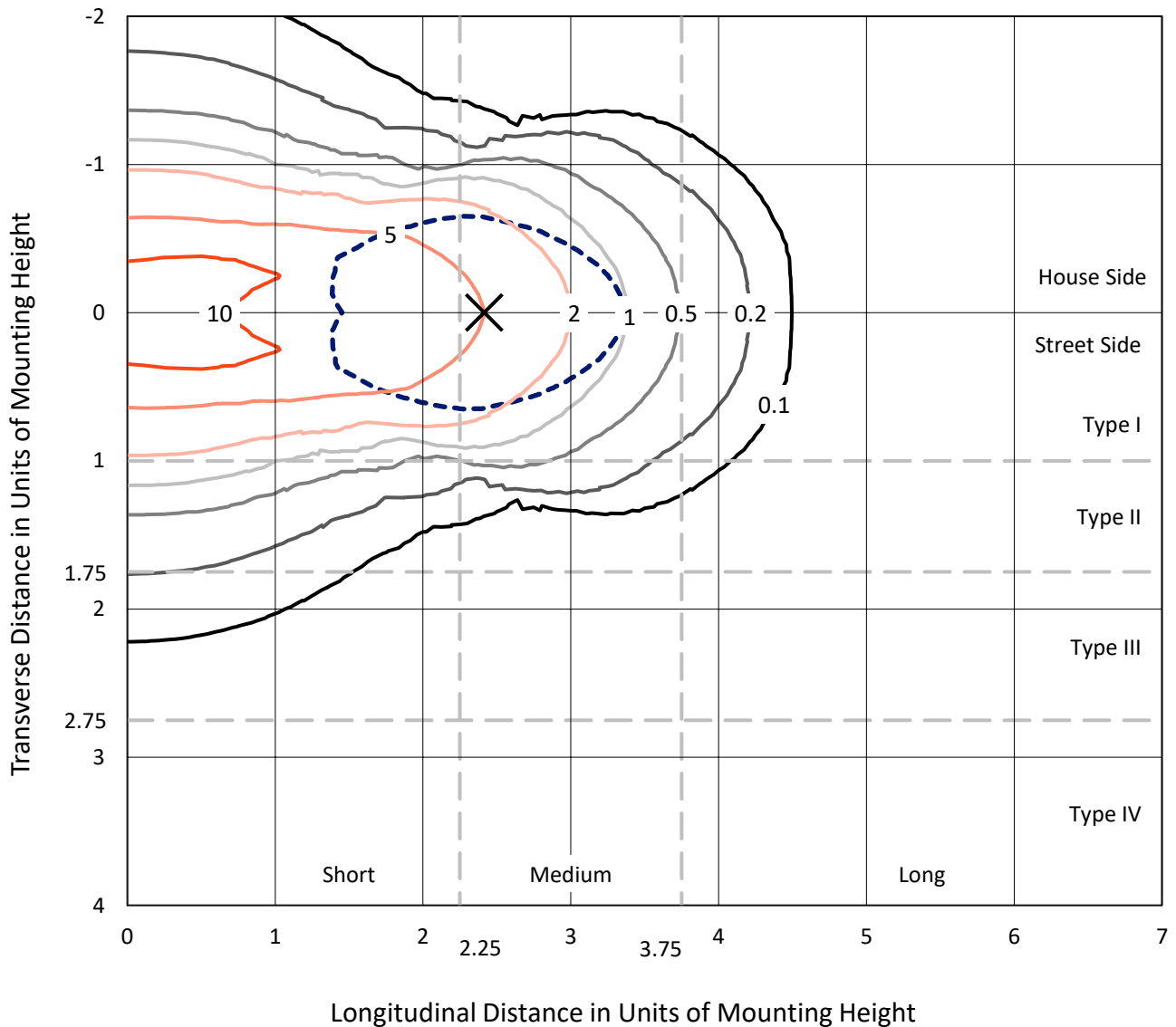
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

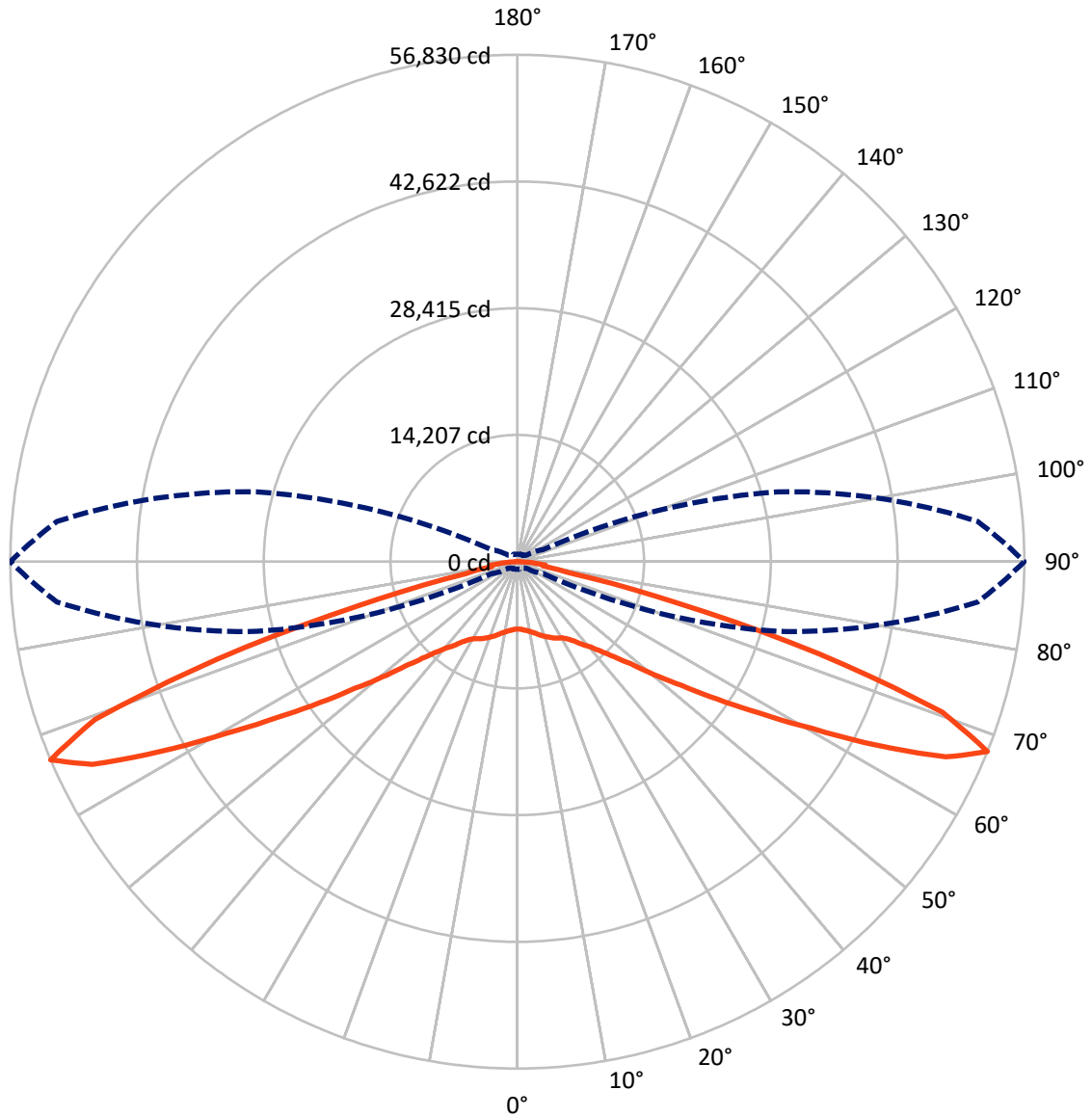
× Max cd
 - - - 1/2 Max cd



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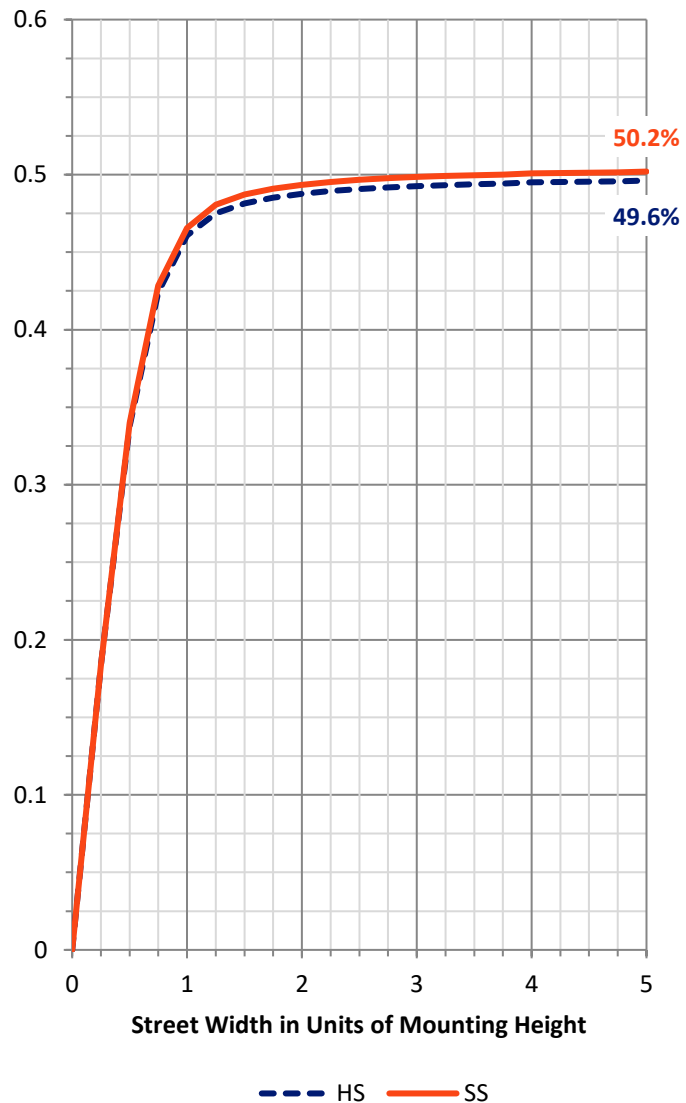
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	21364.0	0.0	21364.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	21364.0	0.0	21364.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	42728.0	0.0	42728.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	754.1	1.8
10°-20°	2412.9	5.6
20°-30°	4038.5	9.5
30°-40°	5471.1	12.8
40°-50°	6930.1	16.2
50°-60°	8657.4	20.3
60°-70°	10176.4	23.8
70°-80°	3892.9	9.1
80°-90°	394.4	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°	42728.0	100.0
0°-180°	42728.0	100.0



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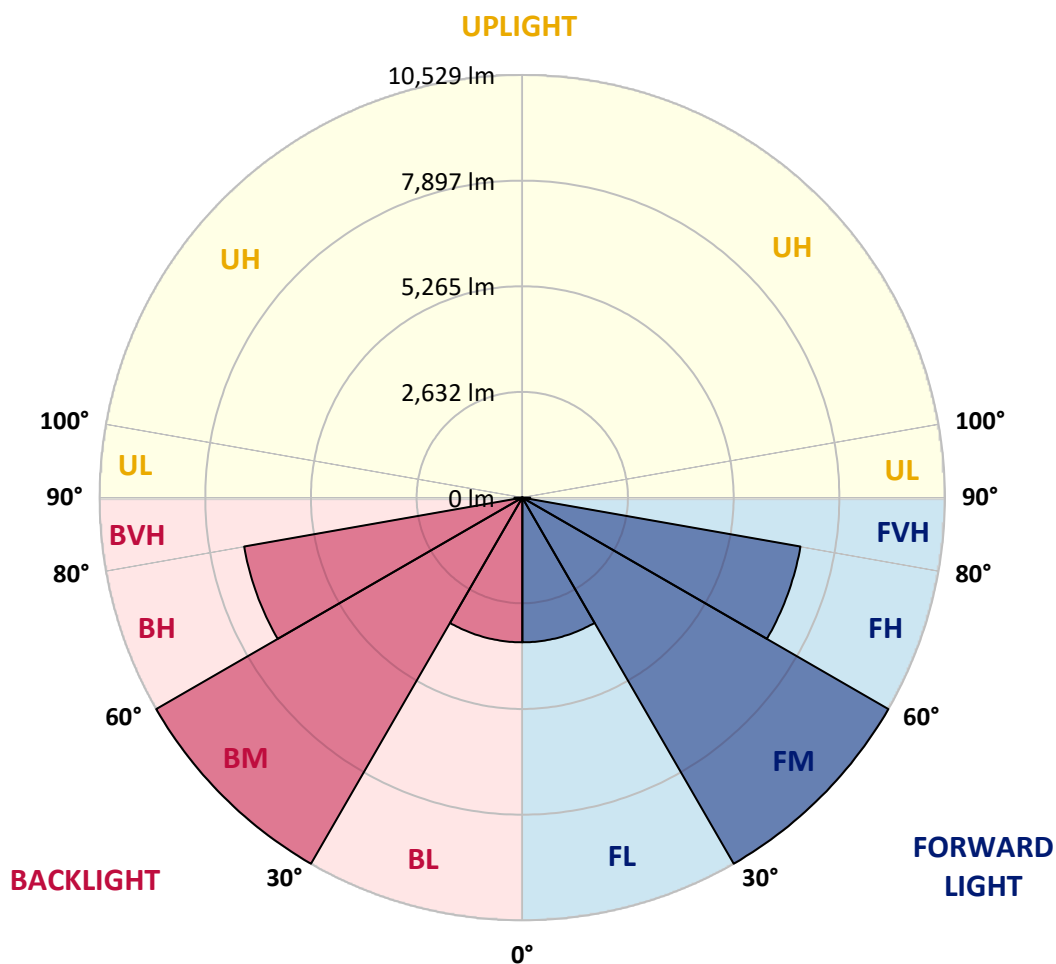
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3602.8	8.4			
FM	(30°-60°)	10529.3	24.6			
FH	(60°-80°)	7034.7	16.5			G3/7500
FVH	(80°-90°)	197.2	0.5			G2/225
BL	(0°-30°)	3602.8	8.4	B4/5000		
BM	(30°-60°)	10529.3	24.6	B5		
BH	(60°-80°)	7034.7	16.5	B5		G5
BVH	(80°-90°)	197.2	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°	7564.2	7564.2	7564.2	7564.2	7564.2	7564.2	7564.2	7564.2	7564.2	7564.2	7564.2
2.5°	7661.2	7656.5	7658.8	7656.5	7663.6	7658.8	7630.4	7606.8	7587.8	7590.2	7583.1
5°	7824.4	7826.8	7829.2	7817.4	7833.9	7824.4	7779.5	7741.6	7703.8	7689.6	7684.9
7.5°	7959.3	7971.1	7978.2	7990.1	8018.5	8018.5	7994.8	7940.4	7857.6	7810.3	7807.9
10°	8094.2	8103.6	8124.9	8162.8	8210.1	8255.1	8245.6	8172.3	8065.8	7985.3	7966.4
12.5°	8141.5	8153.3	8224.3	8333.1	8439.6	8527.2	8527.2	8468.0	8330.8	8207.7	8172.3
15°	7975.9	7997.2	8124.9	8356.8	8636.0	8827.6	8870.2	8787.4	8640.7	8451.4	8408.9
17.5°	7647.0	7699.0	7886.0	8229.0	8692.8	9090.3	9213.3	9173.1	8983.8	8742.5	8692.8
20°	7294.5	7351.2	7550.0	8004.3	8645.5	9244.1	9601.3	9610.8	9376.6	9026.4	8953.0
22.5°	6906.4	6949.0	7204.6	7736.9	8503.5	9279.6	9934.9	10098.2	9781.2	9310.3	9206.2
25°	6471.1	6518.4	6785.8	7360.7	8236.1	9239.3	10240.2	10599.8	10204.7	9613.2	9480.7
27.5°	6054.7	6073.6	6359.9	6944.3	7883.6	9135.2	10464.9	11061.2	10673.1	9864.0	9696.0
30°	5654.8	5699.8	5952.9	6530.2	7479.0	8931.7	10658.9	11586.4	11177.1	10126.6	9911.3
32.5°	5231.3	5285.7	5560.2	6144.6	7074.4	8626.5	10777.3	12161.4	11879.8	10552.5	10323.0
35°	4824.3	4859.8	5136.6	5704.5	6679.3	8271.6	10798.5	12809.7	12786.0	11198.4	10893.2
37.5°	4407.9	4460.0	4739.2	5283.3	6260.5	7895.4	10692.1	13498.2	13879.1	12095.1	11766.2
40°	4008.0	4053.0	4327.5	4876.4	5784.9	7436.4	10438.9	14127.5	15154.4	13017.9	12551.8
42.5°	3572.7	3584.5	3885.0	4443.4	5318.8	6904.1	10074.5	14688.3	16576.4	14255.3	13675.6
45°	3078.2	3109.0	3388.1	3937.1	4784.1	6307.8	9580.0	15152.0	18379.3	15970.7	15180.4
47.5°	2583.7	2609.7	2865.3	3407.1	4199.7	5624.0	8818.2	15559.0	20229.5	18149.8	17113.5
50°	2101.0	2115.2	2323.4	2803.7	3541.9	4904.8	7874.1	15689.1	22321.1	21235.1	19912.5
52.5°	1661.0	1682.2	1840.8	2217.0	2839.2	4055.4	6854.4	15367.3	24762.8	24893.0	23028.5
55°	1346.3	1353.4	1471.7	1748.5	2219.3	3165.7	5624.0	14470.6	27389.1	29580.1	27202.2
57.5°	1159.4	1164.1	1230.3	1384.1	1708.3	2387.3	4363.0	12774.2	29748.0	35071.6	32014.7
60°	1052.9	1055.2	1093.1	1183.0	1353.4	1831.3	3125.5	10379.8	32076.2	41183.1	37996.0
62.5°	986.6	986.6	1012.7	1062.3	1145.2	1405.4	2264.3	7488.5	33670.9	47384.4	45368.6
65°	922.8	922.8	941.7	977.2	1022.1	1149.9	1672.8	4883.5	33630.7	51901.2	52783.7
67.5°	849.4	849.4	863.6	899.1	925.1	989.0	1291.9	3198.9	30209.4	51801.8	56829.6
70°	761.9	761.9	780.8	811.5	832.8	873.1	1019.8	2188.6	22193.3	44230.5	50540.7
72.5°	674.3	676.7	688.5	719.3	735.8	759.5	847.0	1533.2	13614.1	30117.1	35339.0
75°	577.3	582.0	593.9	624.6	638.8	648.3	714.5	1093.1	6887.5	16238.0	18488.1
77.5°	466.1	475.6	482.7	515.8	525.3	539.5	589.1	790.3	3023.8	5834.6	5886.7
80°	340.7	352.5	373.8	404.6	411.7	421.2	449.5	560.7	1369.9	2664.1	2893.7
82.5°	250.8	267.4	241.3	281.6	281.6	269.7	317.0	376.2	629.4	2638.1	3156.3
85°	137.2	139.6	125.4	144.3	153.8	151.4	168.0	184.6	305.2	1760.3	1814.7
87.5°	33.1	35.5	37.9	45.0	54.4	54.4	59.2	52.1	99.4	570.2	326.5
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)