

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: P455571

Luminaire Tested: **GALN-SA6D-730-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455571
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-730-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41704 lumens
Efficiency: N/A
Efficacy: 113.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

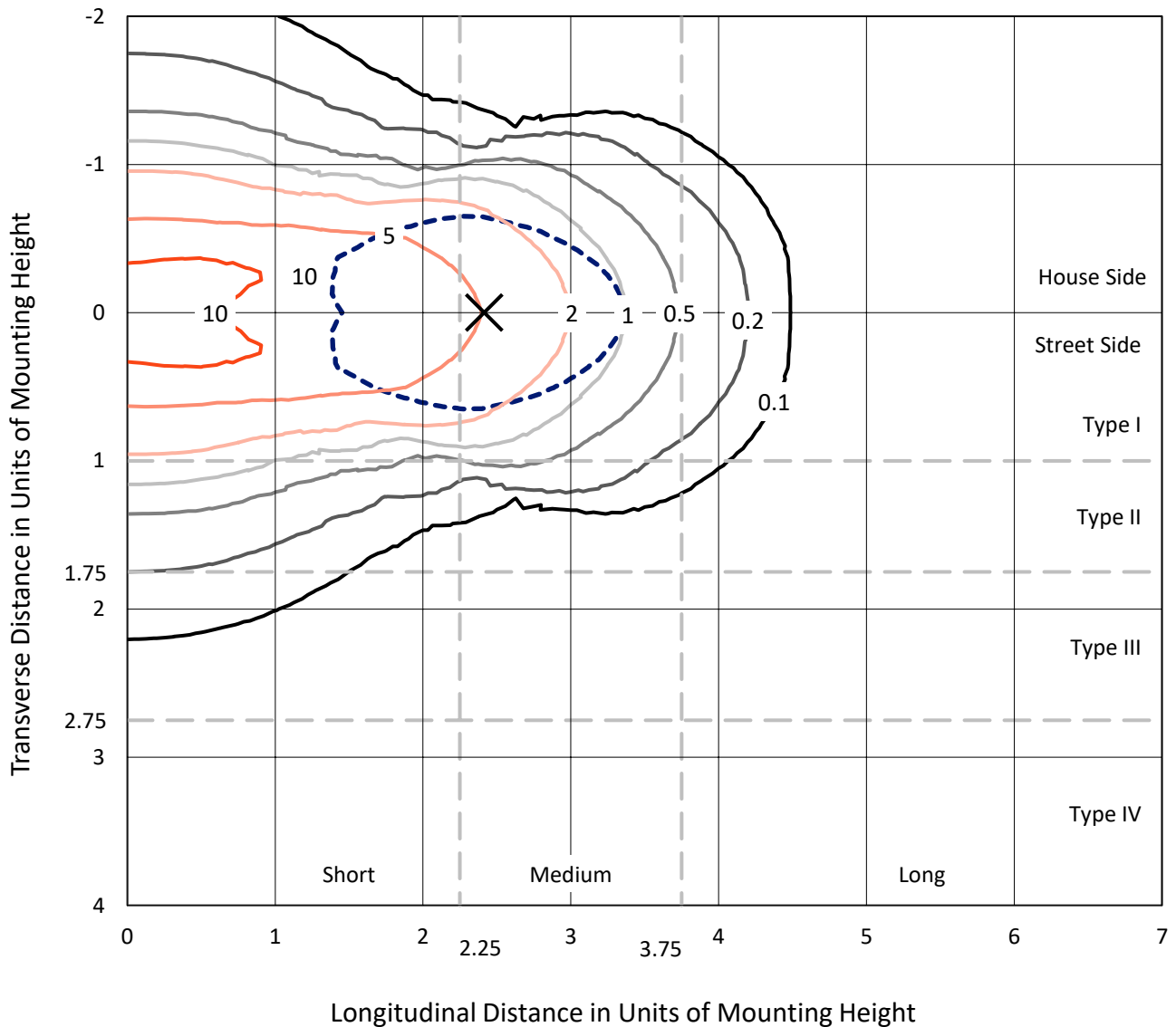
Input Watts (W): 368
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

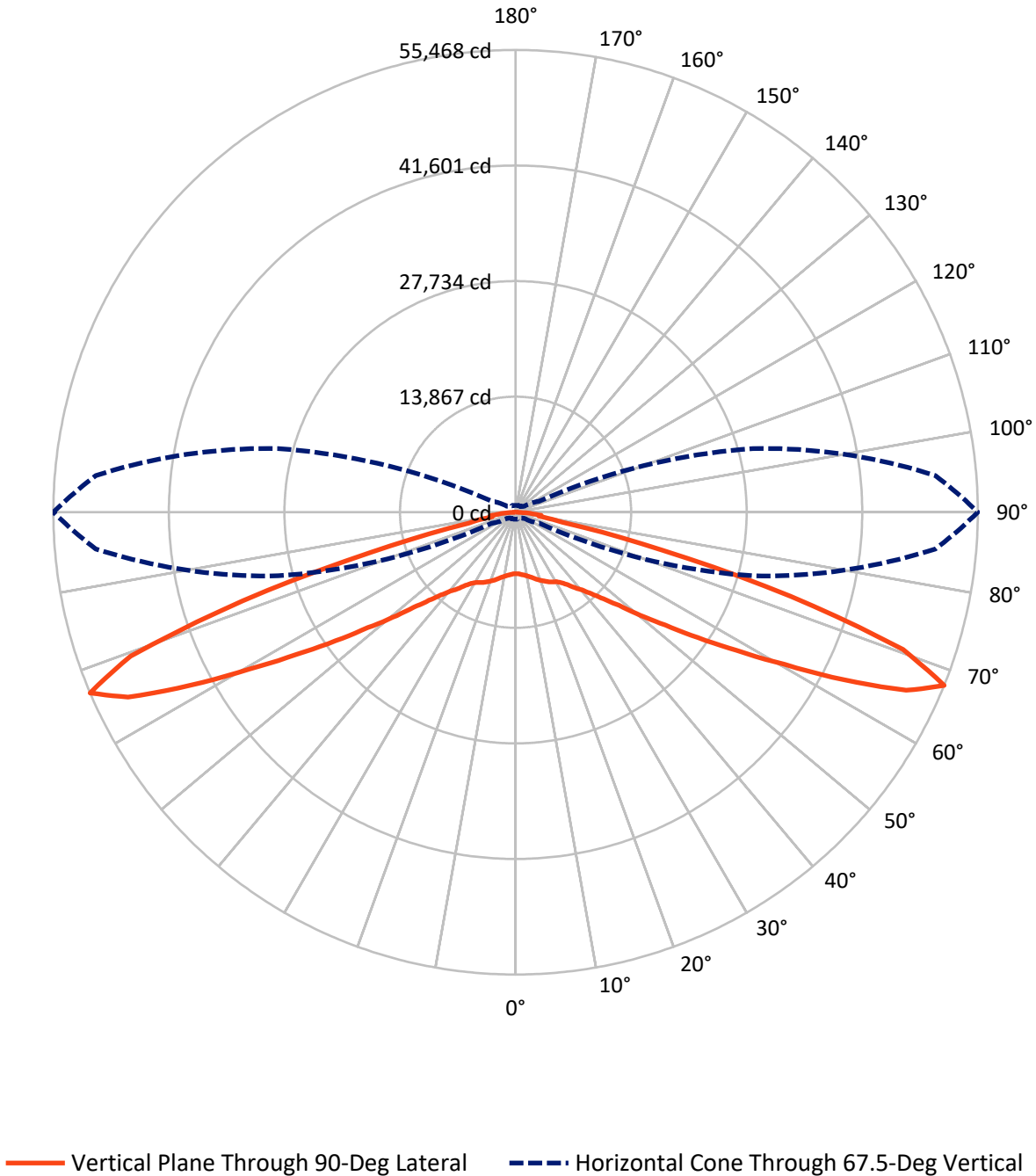
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20852.0	0.0	20852.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20852.0	0.0	20852.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	41704.0	0.0	41704.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	736.1	1.8
10°-20°	2355.0	5.6
20°-30°	3941.7	9.5
30°-40°	5340.0	12.8
40°-50°	6764.0	16.2
50°-60°	8450.0	20.3
60°-70°	9932.5	23.8
70°-80°	3799.7	9.1
80°-90°	384.9	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°	41704.0	100.0
0°-180°	41704.0	100.0

Coefficient of Utilization



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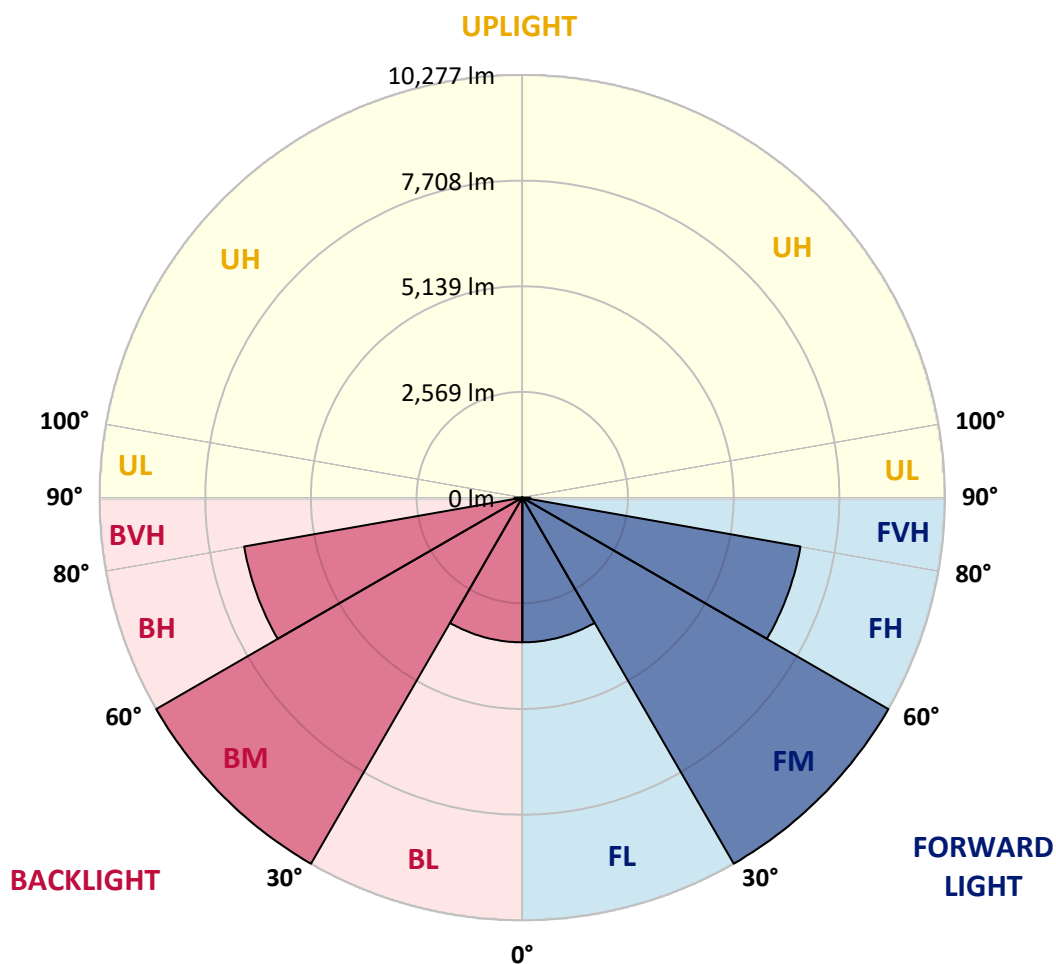
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3516.4	8.4			
FM (30°-60°)	10277.0	24.6			
FH (60°-80°)	6866.1	16.5			G3/7500
FVH (80°-90°)	192.5	0.5			G2/225
BL (0°-30°)	3516.4	8.4	B4/5000		
BM (30°-60°)	10277.0	24.6	B5		
BH (60°-80°)	6866.1	16.5	B5		G5
BVH (80°-90°)	192.5	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°	7382.9	7382.9	7382.9	7382.9	7382.9	7382.9	7382.9	7382.9	7382.9	7382.9	7382.9
2.5°	7477.6	7473.0	7475.3	7473.0	7479.9	7475.3	7447.6	7424.5	7406.0	7408.3	7401.4
5°	7636.9	7639.2	7641.6	7630.0	7646.2	7636.9	7593.1	7556.1	7519.2	7505.3	7500.7
7.5°	7768.6	7780.1	7787.0	7798.6	7826.3	7826.3	7803.2	7750.1	7669.3	7623.1	7620.8
10°	7900.2	7909.4	7930.2	7967.2	8013.4	8057.2	8048.0	7976.4	7872.5	7794.0	7775.5
12.5°	7946.4	7957.9	8027.2	8133.4	8237.4	8322.8	8322.8	8265.1	8131.1	8011.0	7976.4
15°	7784.7	7805.5	7930.2	8156.5	8429.0	8616.1	8657.7	8576.8	8433.6	8248.9	8207.3
17.5°	7463.7	7514.5	7697.0	8031.8	8484.5	8872.4	8992.5	8953.2	8768.5	8532.9	8484.5
20°	7119.6	7175.1	7369.1	7812.4	8438.3	9022.5	9371.2	9380.5	9151.8	8810.1	8738.5
22.5°	6740.9	6782.5	7031.9	7551.5	8299.7	9057.2	9696.8	9856.2	9546.7	9087.2	8985.6
25°	6316.0	6362.2	6623.1	7184.3	8038.8	9017.9	9994.8	10345.8	9960.1	9382.8	9253.5
27.5°	5909.6	5928.0	6207.5	6777.9	7694.7	8916.3	10214.1	10796.1	10417.4	9627.6	9463.6
30°	5519.3	5563.2	5810.3	6373.7	7299.8	8717.7	10403.5	11308.8	10909.2	9883.9	9673.8
32.5°	5105.9	5159.0	5426.9	5997.3	6904.9	8419.8	10519.0	11869.9	11595.1	10299.6	10075.6
35°	4708.7	4743.3	5013.5	5567.8	6519.2	8073.4	10539.8	12502.7	12479.6	10930.0	10632.1
37.5°	4302.3	4353.1	4625.6	5156.7	6110.5	7706.2	10435.8	13174.7	13546.5	11805.3	11484.3
40°	3912.0	3955.9	4223.8	4759.5	5646.3	7258.2	10188.7	13789.0	14791.2	12705.9	12251.0
42.5°	3487.1	3498.6	3791.9	4336.9	5191.4	6738.6	9833.1	14336.3	16179.1	13913.7	13347.9
45°	3004.4	3034.5	3307.0	3842.7	4669.5	6156.7	9350.4	14788.9	17938.8	15587.9	14816.6
47.5°	2521.8	2547.2	2796.6	3325.4	4099.0	5489.3	8606.8	15186.1	19744.7	17714.8	16703.3
50°	2050.7	2064.5	2267.8	2736.5	3457.1	4787.2	7685.4	15313.1	21786.2	20726.2	19435.3
52.5°	1621.1	1641.9	1796.7	2163.8	2771.2	3958.2	6690.1	14999.1	24169.4	24296.4	22476.6
55°	1314.0	1320.9	1436.4	1706.6	2166.1	3089.9	5489.3	14123.8	26732.7	28871.2	26550.3
57.5°	1131.6	1136.2	1200.8	1351.0	1667.3	2330.1	4258.4	12468.0	29035.1	34231.1	31247.5
60°	1027.6	1030.0	1066.9	1154.7	1320.9	1787.4	3050.6	10131.0	31307.5	40196.1	37085.4
62.5°	963.0	963.0	988.4	1036.9	1117.7	1371.7	2210.0	7309.0	32864.0	46248.8	44281.3
65°	900.6	900.6	919.1	953.8	997.6	1122.3	1632.7	4766.4	32824.7	50657.3	51518.7
67.5°	829.0	829.0	842.9	877.5	902.9	965.3	1260.9	3122.2	29485.4	50560.3	55467.6
70°	743.6	743.6	762.1	792.1	812.9	852.1	995.3	2136.1	21661.5	43170.5	49329.5
72.5°	658.2	660.5	672.0	702.0	718.2	741.3	826.7	1496.4	13287.8	29395.4	34492.1
75°	563.5	568.1	579.6	609.7	623.5	632.8	697.4	1066.9	6722.4	15848.9	18045.1
77.5°	454.9	464.2	471.1	503.4	512.7	526.5	575.0	771.3	2951.3	5694.8	5745.6
80°	332.5	344.1	364.9	394.9	401.8	411.1	438.8	547.3	1337.1	2600.3	2824.3
82.5°	244.8	261.0	235.6	274.8	274.8	263.3	309.4	367.2	614.3	2574.9	3080.6
85°	133.9	136.3	122.4	140.9	150.1	147.8	164.0	180.1	297.9	1718.1	1771.3
87.5°	32.3	34.6	36.9	43.9	53.1	53.1	57.7	50.8	97.0	556.5	318.7
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)