

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: P530517

Luminaire Tested: **GALN-SA5D-730-U-RW-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530517
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-7)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5D-730-U-RW-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22800 lumens
Efficiency: N/A
Efficacy: 73.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

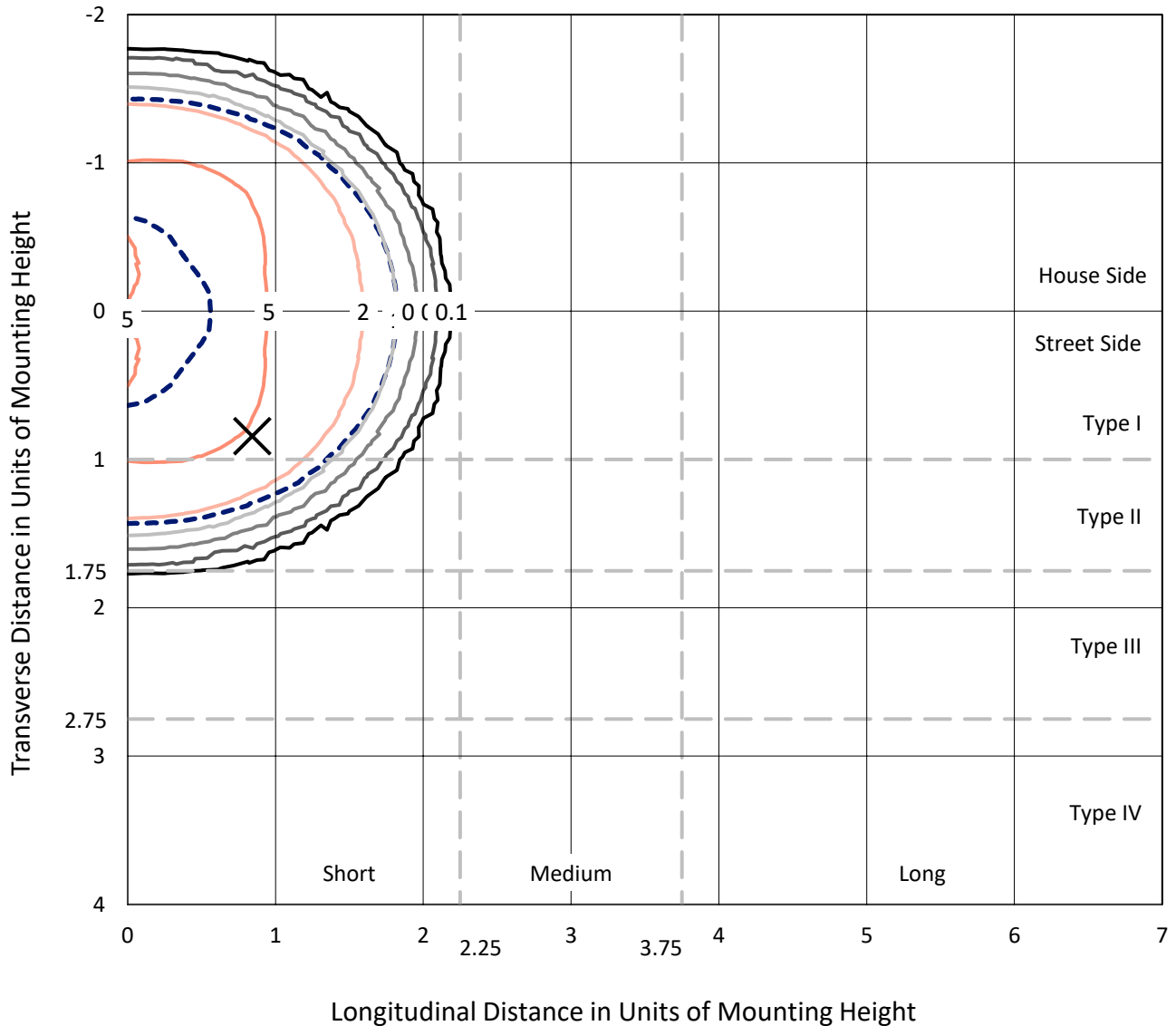
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

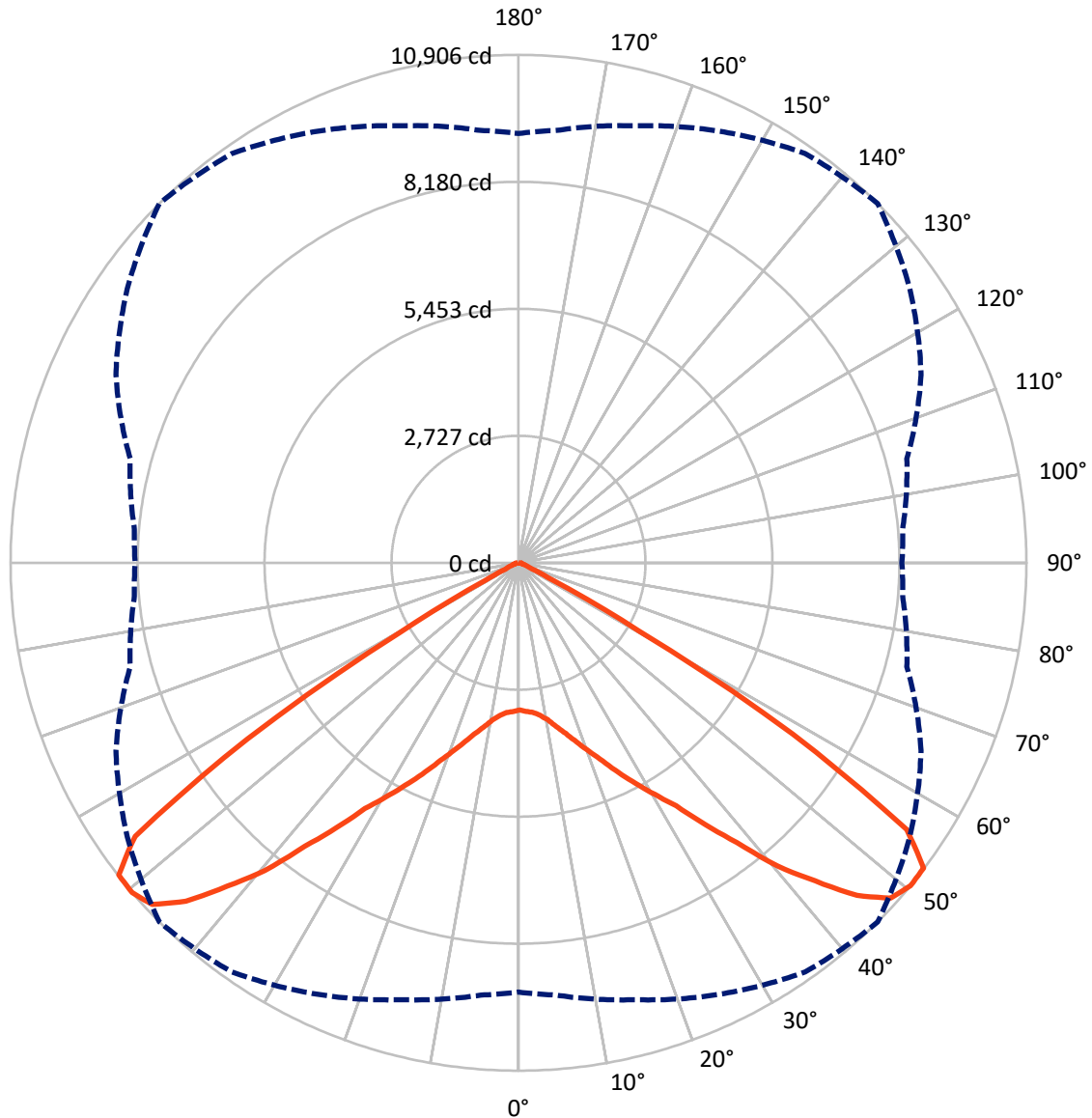
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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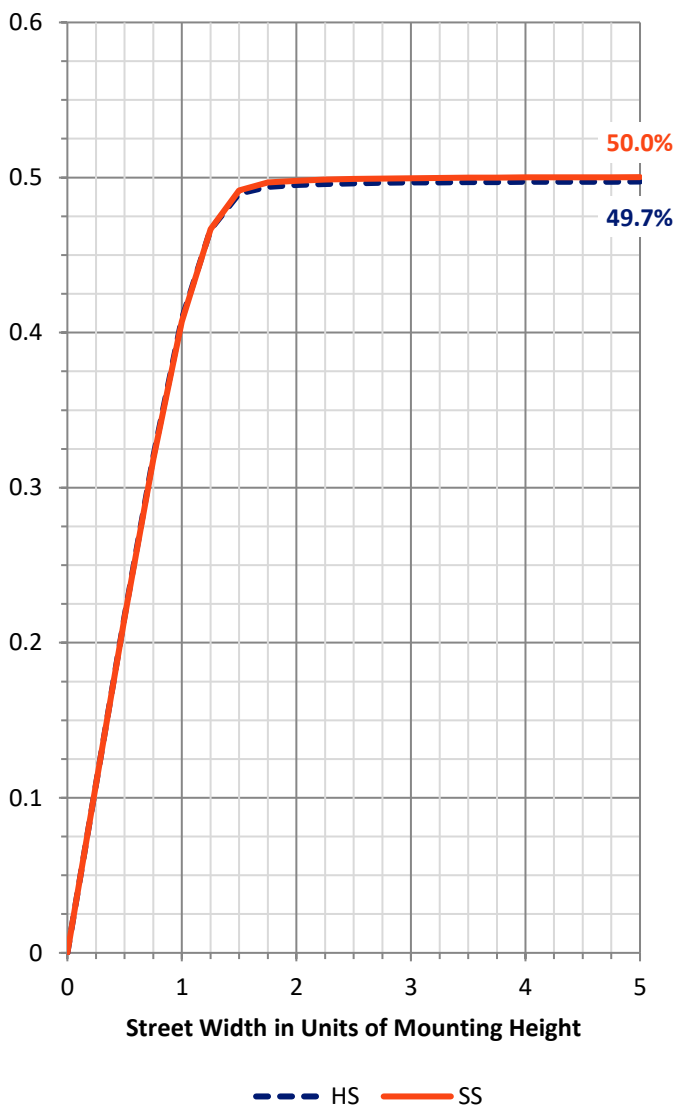
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11400.0	0.0	11400.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11400.0	0.0	11400.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	22800.0	0.0	22800.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	314.5	1.4
10°-20°	1083.8	4.8
20°-30°	2213.6	9.7
30°-40°	4221.4	18.5
40°-50°	7113.7	31.2
50°-60°	6784.1	29.8
60°-70°	947.0	4.2
70°-80°	90.6	0.4
80°-90°	31.3	0.1
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°	22800.0	100.0
0°-180°	22800.0	100.0

Coefficient of Utilization



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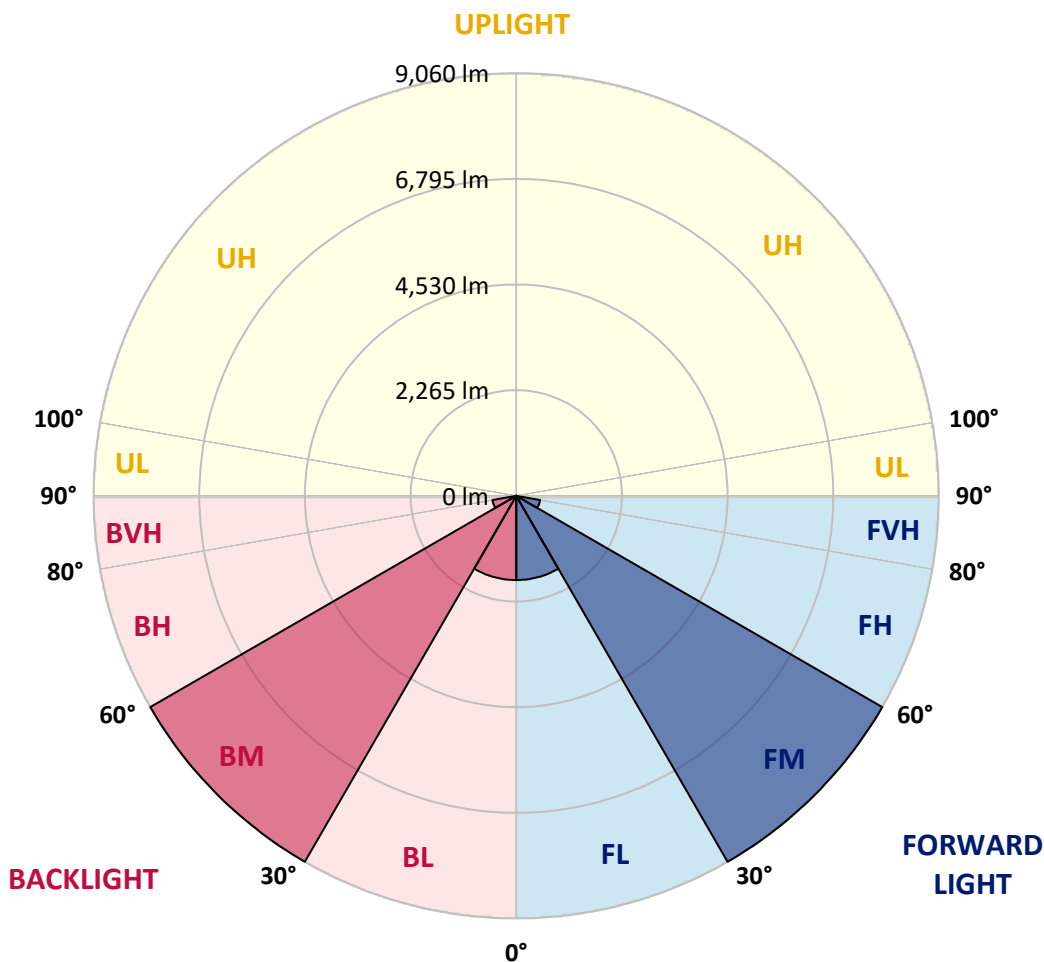
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1806.0	7.9			
FM (30°-60°)	9059.6	39.7			
FH (60°-80°)	518.8	2.3			G0/660
FVH (80°-90°)	15.6	0.1			G1/100
BL (0°-30°)	1806.0	7.9	B3/2500		
BM (30°-60°)	9059.6	39.7	B5		
BH (60°-80°)	518.8	2.3	B2/1000		G0/660
BVH (80°-90°)	15.6	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3161.0	3161.0	3161.0	3161.0	3161.0	3161.0	3161.0	3161.0	3161.0	3161.0	3161.0
2.5°	3149.5	3149.5	3145.6	3176.3	3161.0	3195.5	3191.7	3203.2	3214.7	3210.8	3241.5
5°	3122.6	3118.8	3118.8	3153.3	3187.8	3226.2	3260.7	3283.7	3322.1	3322.1	3360.4
7.5°	3149.5	3130.3	3157.1	3172.5	3237.7	3302.9	3360.4	3406.5	3494.7	3525.4	3513.9
10°	3157.1	3180.1	3199.3	3245.4	3325.9	3425.7	3475.5	3590.6	3690.4	3759.4	3774.7
12.5°	3207.0	3241.5	3295.2	3406.5	3479.4	3609.8	3678.8	3790.1	3928.2	4004.9	4058.6
15°	3302.9	3314.4	3383.5	3525.4	3682.7	3801.6	3909.0	3989.6	4123.8	4212.1	4215.9
17.5°	3425.7	3475.5	3571.4	3705.7	3870.7	4047.1	4131.5	4219.7	4269.6	4388.5	4415.4
20°	3671.2	3678.8	3770.9	3947.4	4154.5	4315.6	4377.0	4423.1	4403.9	4526.6	4549.6
22.5°	3901.3	3909.0	4024.1	4261.9	4484.4	4622.5	4649.4	4622.5	4565.0	4653.2	4660.9
25°	4135.3	4204.4	4288.8	4526.6	4802.8	4987.0	4990.8	4917.9	4799.0	4814.3	4852.7
27.5°	4499.8	4549.6	4637.9	4856.5	5159.6	5366.7	5332.2	5244.0	5090.5	5102.0	5090.5
30°	4925.6	4971.6	5044.5	5324.5	5547.0	5773.4	5823.2	5738.8	5508.7	5458.8	5516.4
32.5°	5439.6	5504.8	5639.1	5896.1	6084.1	6222.2	6256.7	6226.0	6011.2	5992.0	6030.4
35°	6064.9	6153.1	6275.9	6502.2	6655.7	6905.0	6905.0	6801.5	6605.8	6628.8	6625.0
37.5°	6724.7	6855.2	7047.0	7277.1	7484.3	7618.5	7576.4	7488.1	7292.5	7242.6	7292.5
40°	7553.3	7618.5	7860.2	8159.4	8412.6	8566.1	8385.8	8194.0	7726.0	7798.8	7933.1
42.5°	8309.1	8412.6	8596.8	8926.7	9214.4	9341.0	9126.1	8746.4	8182.5	8124.9	8224.7
45°	8953.5	9064.8	9306.4	9778.3	10081.3	10192.6	9716.9	9103.1	8458.7	8312.9	8355.1
47.5°	9383.2	9440.7	9778.3	10227.1	10503.3	10756.5	10073.7	9348.6	8589.1	8312.9	8297.5
50°	9218.2	9318.0	9713.1	10223.3	10725.8	10906.1	10254.0	9536.6	8631.3	8278.4	8232.3
52.5°	8186.3	8358.9	8800.1	9486.7	10246.3	10890.8	10503.3	9475.2	8615.9	8312.9	8381.9
55°	5696.6	5700.5	6237.5	7250.3	8592.9	10112.0	10138.9	9544.3	8715.7	8527.7	8531.5
57.5°	2290.2	2405.3	2815.7	3832.3	5071.4	6943.4	8255.3	8853.8	8727.2	8681.2	8800.1
60°	579.3	583.1	709.7	1081.8	1783.8	2976.8	4323.3	5850.1	6736.2	7039.3	7081.5
62.5°	295.4	299.2	329.9	383.6	487.2	797.9	1419.4	2251.8	3203.2	3686.5	3813.1
65°	241.7	241.7	260.9	287.7	291.5	306.9	368.3	525.5	763.4	867.0	878.5
67.5°	184.1	184.1	199.5	214.8	222.5	218.7	211.0	218.7	264.7	253.2	245.5
70°	115.1	118.9	126.6	141.9	149.6	153.4	157.3	165.0	188.0	195.6	188.0
72.5°	69.1	69.1	72.9	84.4	95.9	103.6	115.1	122.8	134.3	153.4	149.6
75°	30.7	30.7	38.4	49.9	61.4	72.9	84.4	95.9	103.6	115.1	118.9
77.5°	7.7	11.5	19.2	34.5	46.0	61.4	76.7	88.2	95.9	95.9	92.1
80°	3.8	3.8	15.3	26.9	49.9	65.2	84.4	92.1	103.6	95.9	84.4
82.5°	3.8	3.8	15.3	26.9	46.0	65.2	88.2	99.7	107.4	95.9	80.6
85°	0.0	3.8	11.5	23.0	38.4	46.0	38.4	26.9	15.3	15.3	11.5
87.5°	0.0	0.0	3.8	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)