

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: P530673

Luminaire Tested: **GALN-SA5D-830-U-RW-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530673
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-830-U-RW-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 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: 19895 lumens
Efficiency: N/A
Efficacy: 64.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - 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



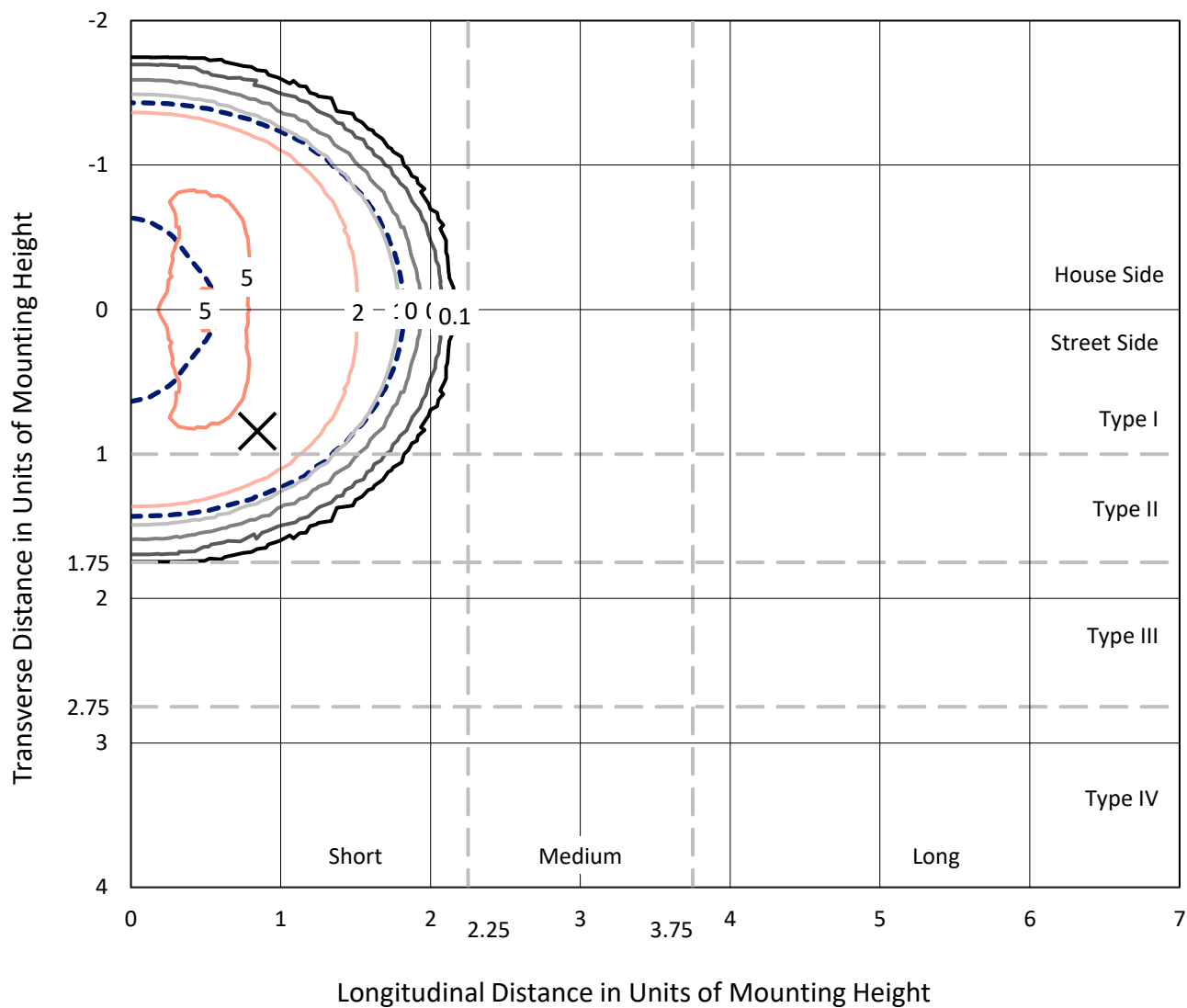
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

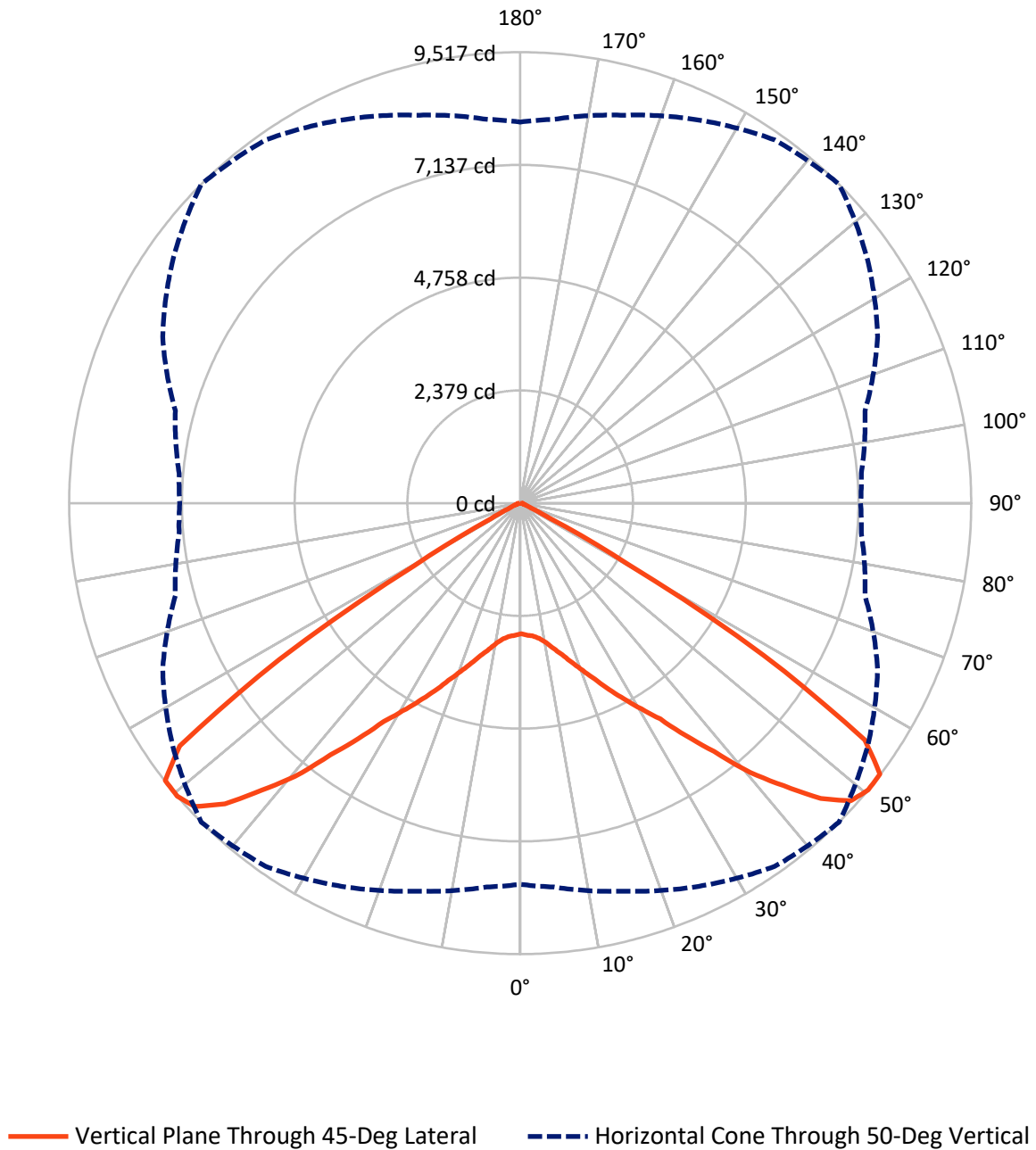


Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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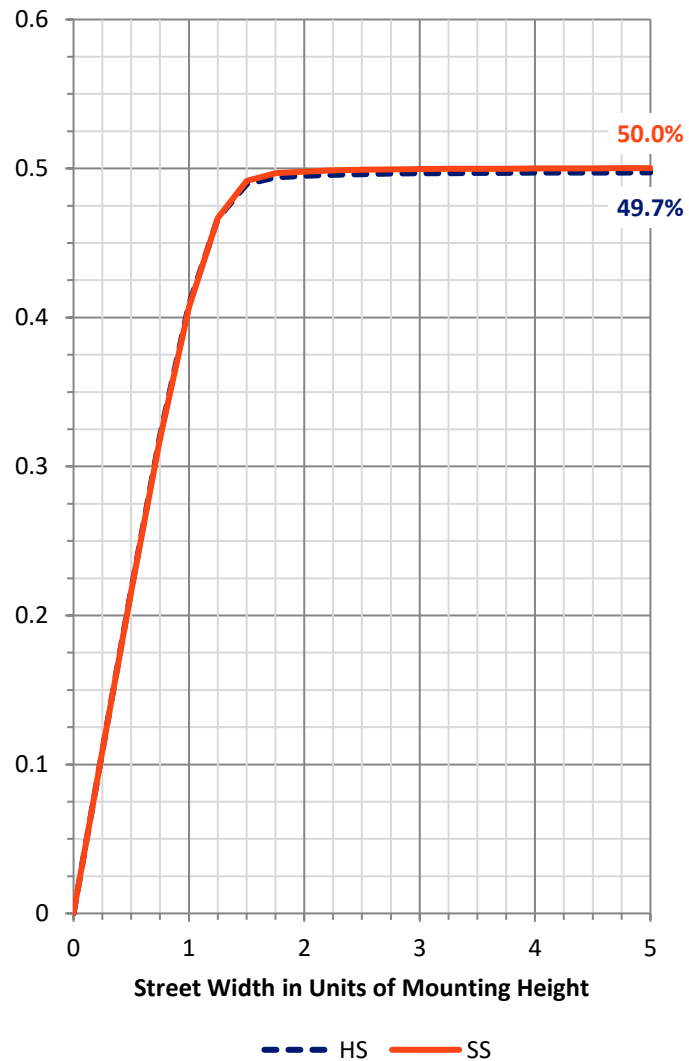
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9947.5	0.0	9947.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9947.5	0.0	9947.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	19895.0	0.0	19895.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.4	1.4
10°-20°	945.7	4.8
20°-30°	1931.6	9.7
30°-40°	3683.5	18.5
40°-50°	6207.3	31.2
50°-60°	5919.7	29.8
60°-70°	826.4	4.2
70°-80°	79.0	0.4
80°-90°	27.3	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°	19895.0	100.0
0°-180°	19895.0	100.0

Coefficient of Utilization



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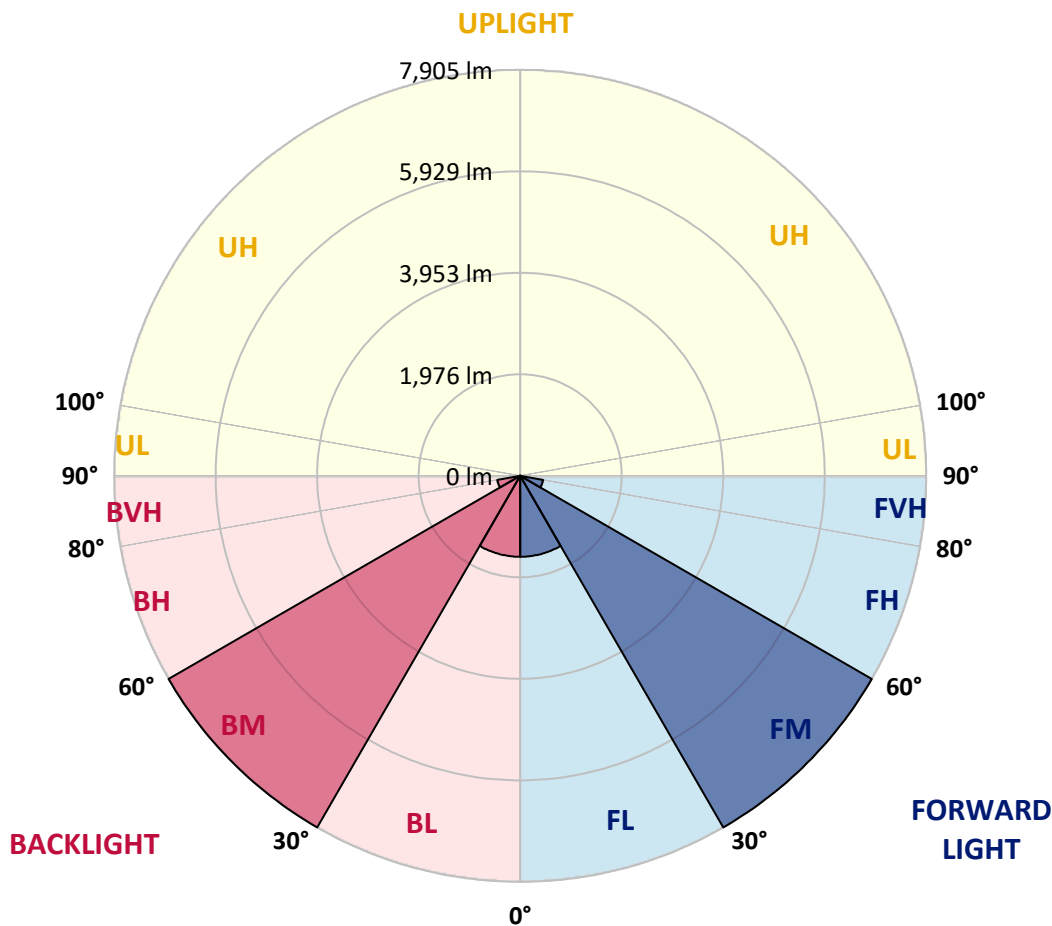
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1575.9	7.9			
FM	(30°-60°)	7905.3	39.7			
FH	(60°-80°)	452.7	2.3			G0/660
FVH	(80°-90°)	13.7	0.1			G1/100
BL	(0°-30°)	1575.9	7.9	B3/2500		
BM	(30°-60°)	7905.3	39.7	B4/8500		
BH	(60°-80°)	452.7	2.3	B1/500		G0/660
BVH	(80°-90°)	13.7	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2758.2	2758.2	2758.2	2758.2	2758.2	2758.2	2758.2	2758.2	2758.2	2758.2	2758.2
2.5°	2748.2	2748.2	2744.8	2771.6	2758.2	2788.3	2785.0	2795.0	2805.1	2801.7	2828.5
5°	2724.7	2721.4	2721.4	2751.5	2781.7	2815.1	2845.3	2865.3	2898.8	2898.8	2932.3
7.5°	2748.2	2731.4	2754.9	2768.3	2825.2	2882.1	2932.3	2972.5	3049.4	3076.2	3066.2
10°	2754.9	2775.0	2791.7	2831.9	2902.2	2989.2	3032.7	3133.1	3220.2	3280.4	3293.8
12.5°	2798.4	2828.5	2875.4	2972.5	3036.1	3149.9	3210.1	3307.2	3427.7	3494.6	3541.5
15°	2882.1	2892.1	2952.4	3076.2	3213.5	3317.2	3411.0	3481.3	3598.4	3675.4	3678.7
17.5°	2989.2	3032.7	3116.4	3233.5	3377.5	3531.5	3605.1	3682.1	3725.6	3829.4	3852.8
20°	3203.4	3210.1	3290.5	3444.4	3625.2	3765.8	3819.3	3859.5	3842.8	3949.9	3970.0
22.5°	3404.3	3411.0	3511.4	3718.9	3913.1	4033.6	4057.0	4033.6	3983.4	4060.3	4067.0
25°	3608.5	3668.7	3742.3	3949.9	4190.9	4351.6	4354.9	4291.3	4187.5	4200.9	4234.4
27.5°	3926.5	3970.0	4047.0	4237.8	4502.2	4683.0	4652.8	4575.8	4441.9	4452.0	4441.9
30°	4298.0	4338.2	4401.8	4646.1	4840.3	5037.8	5081.3	5007.6	4806.8	4763.3	4813.5
32.5°	4746.6	4803.5	4920.6	5144.9	5308.9	5429.4	5459.5	5432.8	5245.3	5228.6	5262.0
35°	5292.2	5369.2	5476.3	5673.8	5807.7	6025.2	6025.2	5934.9	5764.2	5784.2	5780.9
37.5°	5867.9	5981.7	6149.1	6349.9	6530.7	6647.9	6611.0	6534.0	6363.3	6319.8	6363.3
40°	6590.9	6647.9	6858.7	7119.8	7340.8	7474.7	7317.3	7150.0	6741.6	6805.2	6922.3
42.5°	7250.4	7340.8	7501.4	7789.3	8040.4	8150.8	7963.4	7632.0	7139.9	7089.7	7176.7
45°	7812.7	7909.8	8120.7	8532.4	8796.9	8893.9	8478.9	7943.3	7380.9	7253.7	7290.5
47.5°	8187.6	8237.8	8532.4	8924.1	9165.1	9386.0	8790.2	8157.5	7494.7	7253.7	7240.3
50°	8043.7	8130.7	8475.5	8920.7	9359.2	9516.5	8947.5	8321.5	7531.6	7223.6	7183.4
52.5°	7143.3	7293.9	7678.8	8278.0	8940.8	9503.1	9165.1	8268.0	7518.2	7253.7	7314.0
55°	4970.8	4974.2	5442.8	6326.5	7498.1	8823.6	8847.1	8328.2	7605.2	7441.2	7444.5
57.5°	1998.4	2098.8	2457.0	3344.0	4425.2	6058.7	7203.5	7725.7	7615.2	7575.1	7678.8
60°	505.5	508.8	619.3	944.0	1556.5	2597.5	3772.5	5104.7	5878.0	6142.4	6179.2
62.5°	257.7	261.1	287.9	334.7	425.1	696.3	1238.5	1964.9	2795.0	3216.8	3327.3
65°	210.9	210.9	227.6	251.1	254.4	267.8	321.3	458.6	666.1	756.5	766.5
67.5°	160.7	160.7	174.1	187.5	194.1	190.8	184.1	190.8	231.0	220.9	214.2
70°	100.4	103.8	110.5	123.9	130.5	133.9	137.2	143.9	164.0	170.7	164.0
72.5°	60.3	60.3	63.6	73.6	83.7	90.4	100.4	107.1	117.2	133.9	130.5
75°	26.8	26.8	33.5	43.5	53.6	63.6	73.6	83.7	90.4	100.4	103.8
77.5°	6.7	10.0	16.7	30.1	40.2	53.6	66.9	77.0	83.7	83.7	80.3
80°	3.3	3.3	13.4	23.4	43.5	56.9	73.6	80.3	90.4	83.7	73.6
82.5°	3.3	3.3	13.4	23.4	40.2	56.9	77.0	87.0	93.7	83.7	70.3
85°	0.0	3.3	10.0	20.1	33.5	40.2	33.5	23.4	13.4	13.4	10.0
87.5°	0.0	0.0	3.3	3.3	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)