

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: P528798

Luminaire Tested: **GALN-SA3D-830-U-5WQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528798
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3D-830-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15568 lumens
Efficiency: N/A
Efficacy: 84.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

Input Watts (W): 184
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



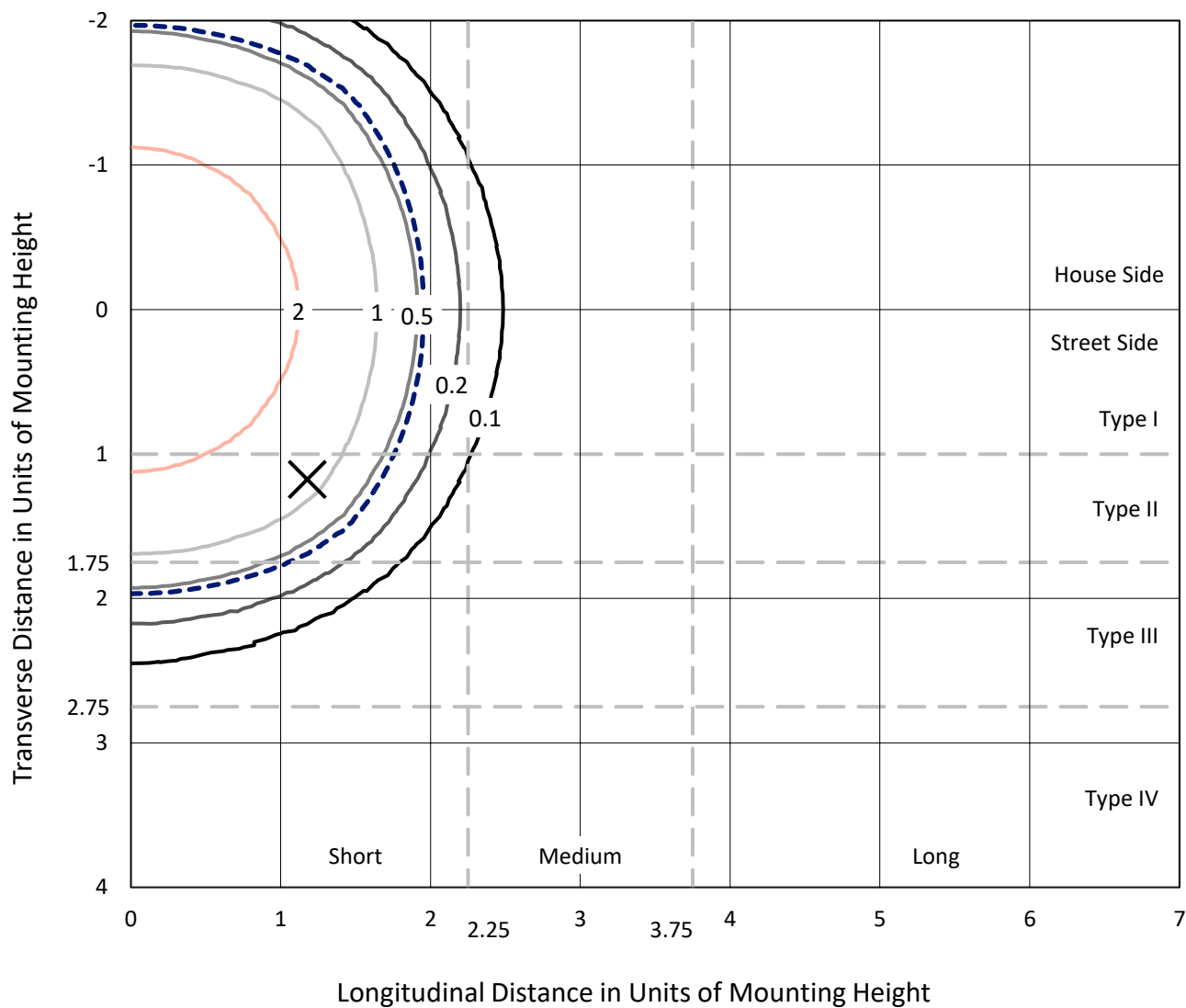
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

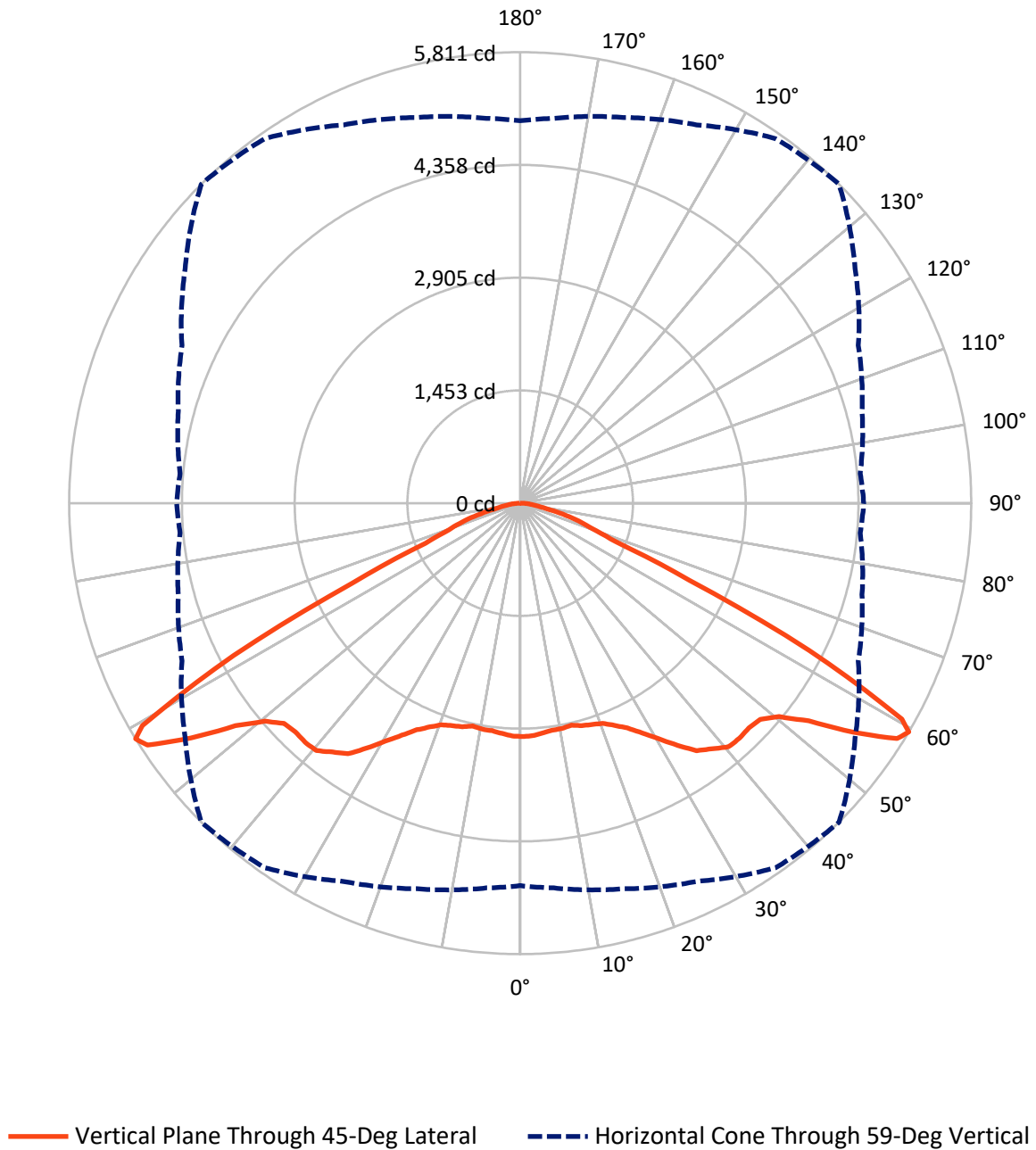


Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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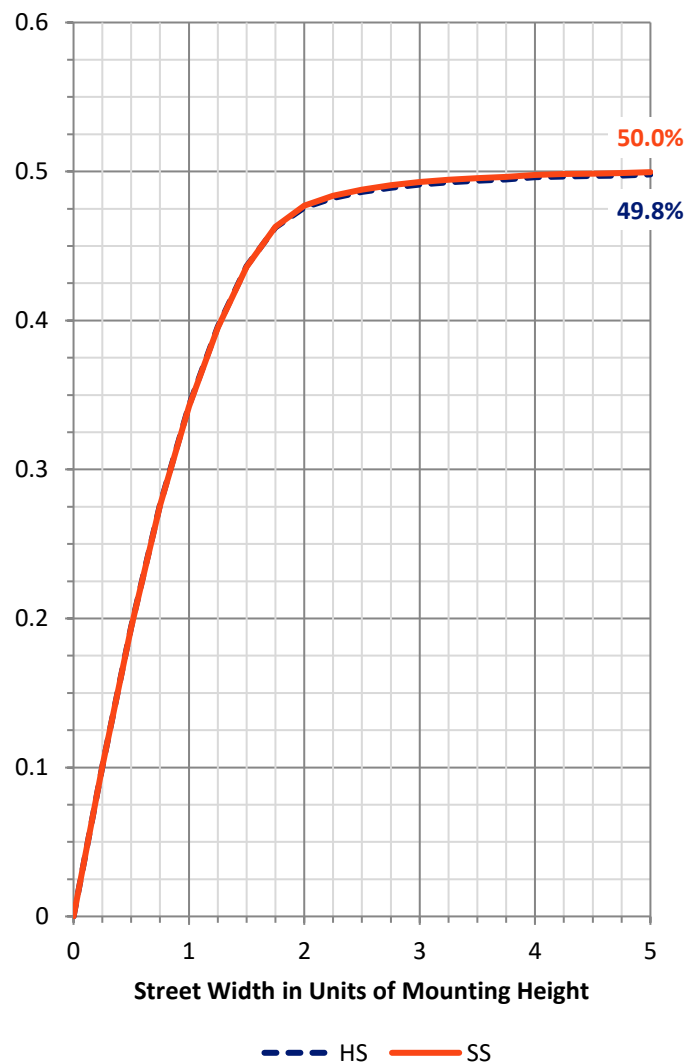
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7784.0	0.0	7784.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7784.0	0.0	7784.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	15568.0	0.0	15568.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.5	1.8
10°-20°	843.0	5.4
20°-30°	1471.9	9.5
30°-40°	2350.9	15.1
40°-50°	3202.3	20.6
50°-60°	4330.4	27.8
60°-70°	2374.8	15.3
70°-80°	607.5	3.9
80°-90°	103.6	0.7
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°	15568.0	100.0
0°-180°	15568.0	100.0

Coefficient of Utilization



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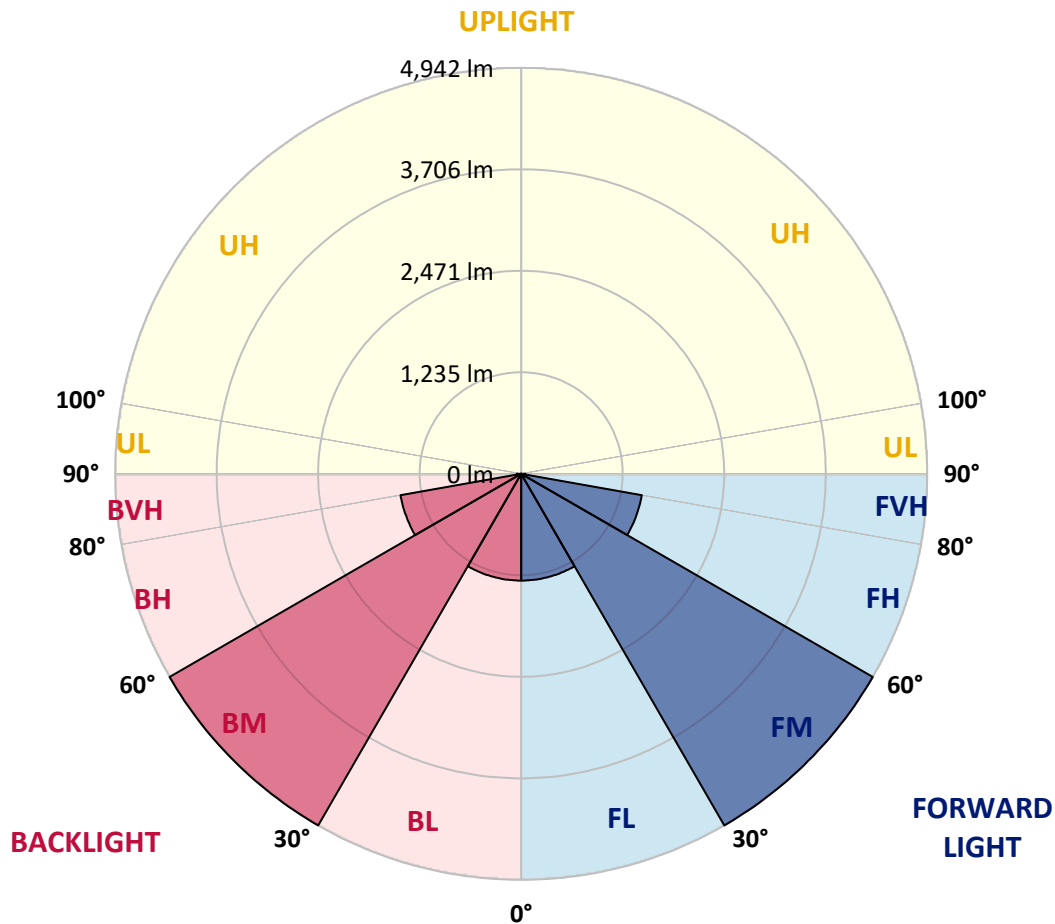
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1299.2	8.3			
FM	(30°-60°)	4941.8	31.7			
FH	(60°-80°)	1491.2	9.6			G1/1800
FVH	(80°-90°)	51.8	0.3			G1/100
BL	(0°-30°)	1299.2	8.3	B3/2500		
BM	(30°-60°)	4941.8	31.7	B3/5000		
BH	(60°-80°)	1491.2	9.6	B3/2500		G1/1800
BVH	(80°-90°)	51.8	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3007.0	3007.0	3007.0	3007.0	3007.0	3007.0	3007.0	3007.0	3007.0	3007.0	3007.0
2.5°	2989.0	3011.0	2995.0	3009.0	3007.0	3001.0	2991.0	2985.0	2977.1	2989.0	2969.1
5°	2977.1	2995.0	3013.0	2989.0	2989.0	2977.1	2971.1	2959.1	2959.1	2957.1	2955.1
7.5°	2997.0	2979.1	2971.1	2975.1	2979.1	2953.1	2971.1	2947.1	2927.2	2941.1	2957.1
10°	2979.1	2987.0	2957.1	2971.1	2949.1	2953.1	2941.1	2957.1	2935.2	2935.2	2935.2
12.5°	2997.0	2975.1	2985.0	2975.1	2969.1	2935.2	2951.1	2933.2	2931.2	2951.1	2933.2
15°	3032.9	2997.0	2989.0	2969.1	2975.1	2975.1	2959.1	2961.1	2939.2	2951.1	2955.1
17.5°	3021.0	3001.0	2995.0	2971.1	2991.0	2997.0	2967.1	2947.1	2961.1	2959.1	2957.1
20°	3030.9	3038.9	3032.9	3036.9	3044.9	3028.9	3001.0	2973.1	2955.1	2981.1	2979.1
22.5°	3094.8	3086.8	3082.8	3078.8	3092.8	3108.8	3070.8	3026.9	3026.9	3044.9	3052.9
25°	3146.7	3144.7	3142.7	3160.6	3208.5	3208.5	3160.6	3104.8	3090.8	3102.8	3092.8
27.5°	3222.5	3244.4	3236.5	3268.4	3338.2	3354.2	3290.3	3224.5	3186.6	3172.6	3190.6
30°	3396.1	3370.1	3376.1	3410.1	3471.9	3523.8	3426.0	3356.2	3304.3	3302.3	3310.3
32.5°	3511.8	3531.8	3549.7	3581.7	3679.4	3719.3	3601.6	3487.9	3455.9	3438.0	3444.0
35°	3743.3	3725.3	3721.3	3753.3	3851.0	3916.9	3769.2	3669.4	3627.5	3667.5	3667.5
37.5°	3962.8	3912.9	3875.0	3916.9	4006.7	4014.6	3888.9	3835.1	3813.1	3859.0	3857.0
40°	4066.5	4062.5	3974.7	3998.7	4118.4	4130.4	4012.6	3948.8	3944.8	4004.7	4064.5
42.5°	4174.3	4136.4	4048.6	4064.5	4138.4	4142.3	4030.6	4012.6	4056.5	4114.4	4118.4
45°	4192.2	4160.3	4104.4	4064.5	4118.4	4130.4	4064.5	4076.5	4080.5	4150.3	4150.3
47.5°	4228.1	4224.2	4192.2	4162.3	4172.3	4162.3	4120.4	4138.4	4198.2	4232.1	4216.2
50°	4327.9	4286.0	4317.9	4292.0	4294.0	4321.9	4284.0	4302.0	4290.0	4260.1	4240.1
52.5°	4547.4	4527.5	4555.4	4573.3	4593.3	4657.1	4613.3	4517.5	4427.7	4347.9	4345.9
55°	4868.7	4882.6	4936.5	5028.3	5106.1	5207.9	4996.4	4766.9	4623.2	4497.5	4505.5
57.5°	5171.9	5162.0	5235.8	5445.3	5672.8	5724.7	5309.6	4982.4	4748.9	4669.1	4635.2
59°	4928.5	4976.4	5144.0	5377.5	5734.6	5810.5	5267.7	4806.8	4559.4	4397.8	4425.7
60°	4545.4	4563.4	4713.0	5038.3	5521.1	5650.8	4986.4	4535.4	4206.2	4112.4	4154.3
62.5°	3212.5	3198.5	3306.3	3571.7	4004.7	4180.3	3707.4	3390.1	3182.6	3078.8	3102.8
65°	1708.0	1771.9	1815.8	1981.4	2210.8	2396.4	2200.9	2063.2	1947.5	1861.7	1859.7
67.5°	1153.3	1145.3	1155.3	1193.2	1271.0	1322.9	1318.9	1249.1	1239.1	1223.1	1241.1
70°	971.7	967.7	949.8	949.8	965.7	977.7	991.7	999.7	1015.6	1035.6	1033.6
72.5°	788.2	778.2	766.2	760.2	780.2	786.2	804.1	812.1	826.1	824.1	842.0
75°	520.8	520.8	534.8	550.7	556.7	568.7	570.7	594.6	594.6	598.6	582.6
77.5°	291.3	283.3	293.3	309.3	323.2	345.2	367.1	385.1	395.1	391.1	391.1
80°	169.6	169.6	179.6	197.5	215.5	235.5	251.4	265.4	275.4	271.4	263.4
82.5°	105.8	105.8	115.7	133.7	147.7	159.6	181.6	199.5	211.5	207.5	197.5
85°	53.9	53.9	65.8	77.8	95.8	103.8	101.8	93.8	91.8	81.8	81.8
87.5°	14.0	14.0	20.0	21.9	18.0	20.0	20.0	20.0	20.0	20.0	21.9
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)