

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: P453385

Luminaire Tested: **GALN-SA4B-830-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453385
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4B-830-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18455 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 164
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

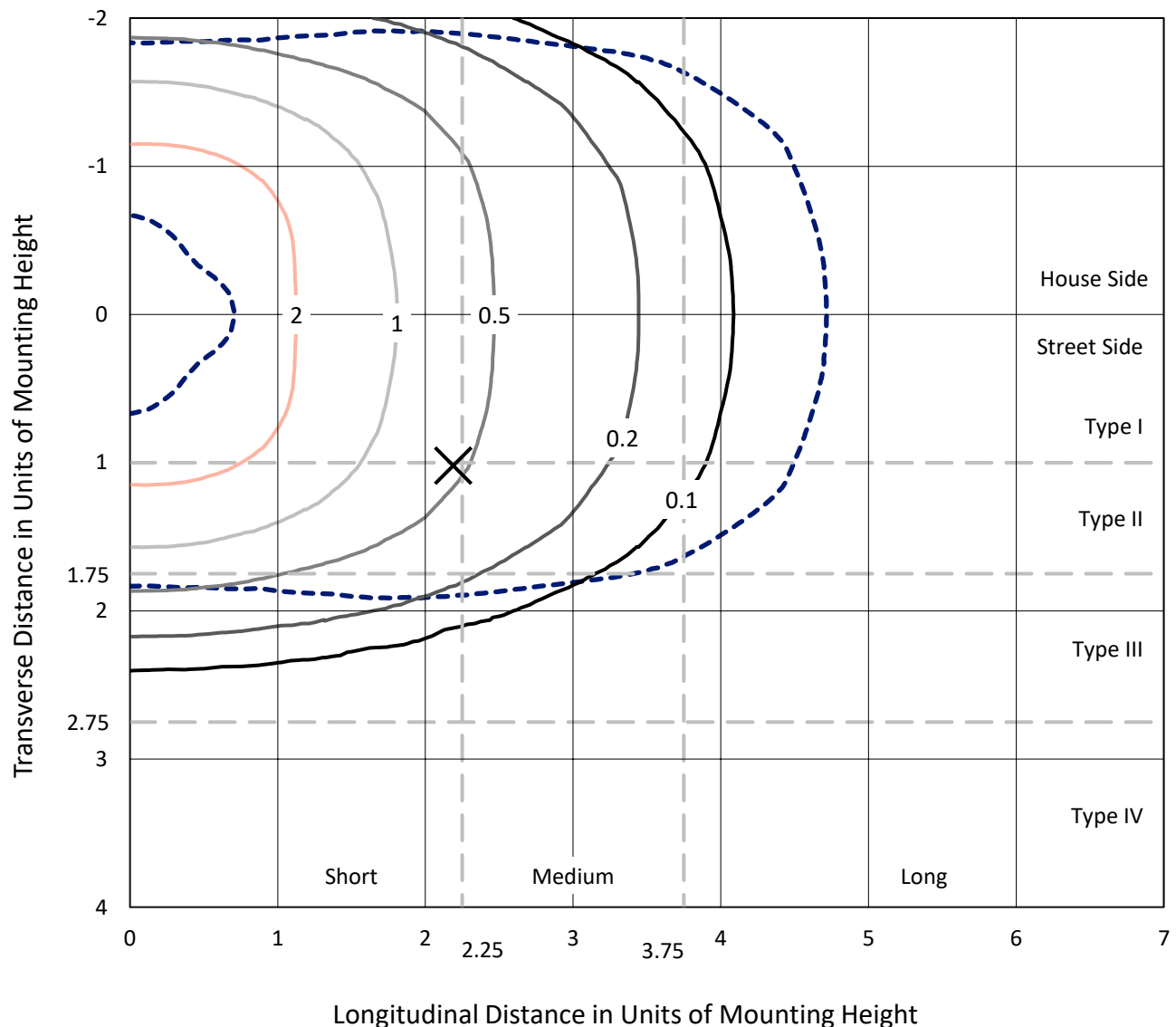


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

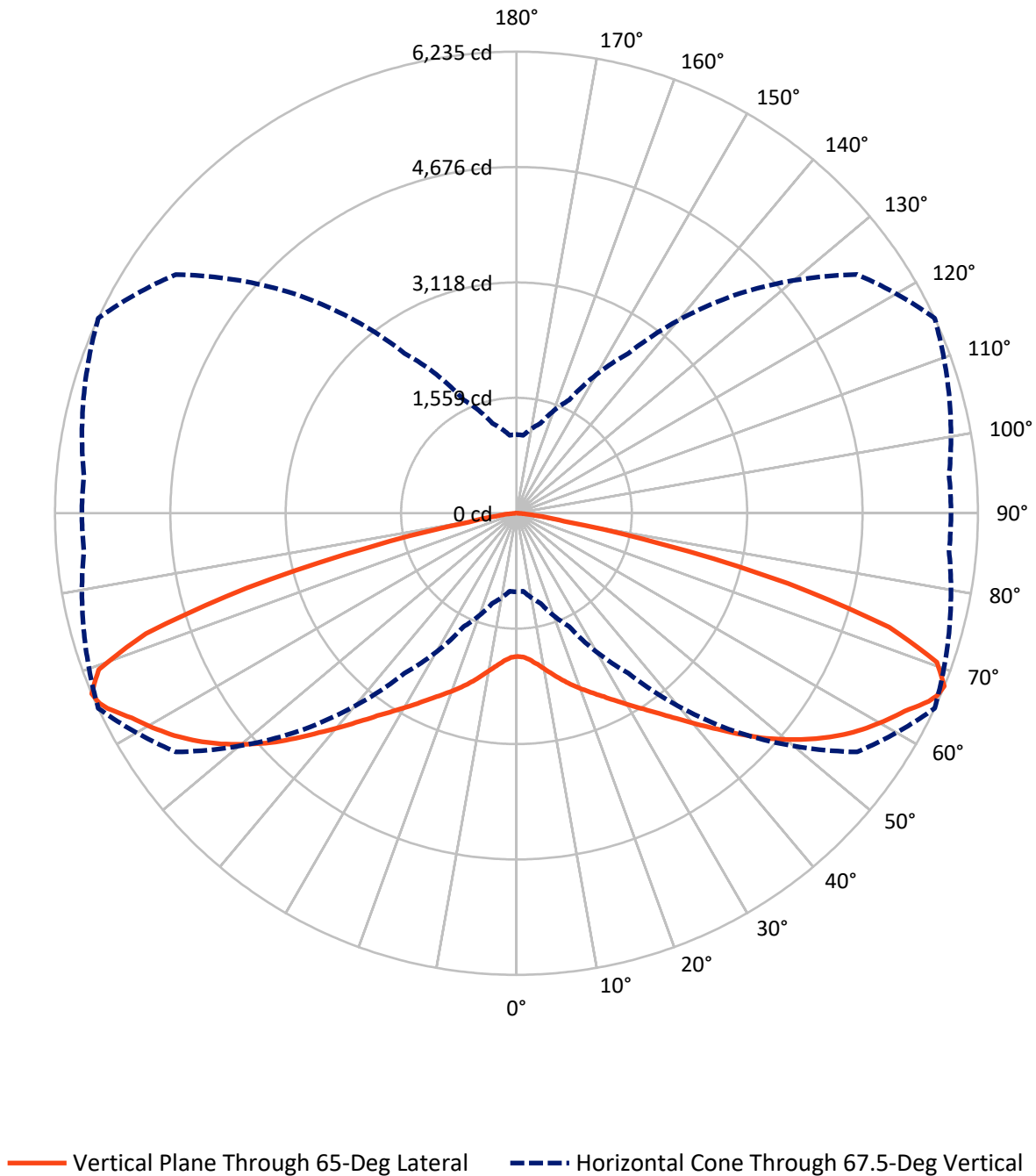


Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9227.5	0.0	9227.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9227.5	0.0	9227.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	18455.0	0.0	18455.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.6	1.0
10°-20°	638.1	3.5
20°-30°	1248.1	6.8
30°-40°	2122.9	11.5
40°-50°	3359.9	18.2
50°-60°	4455.2	24.1
60°-70°	4202.6	22.8
70°-80°	2077.6	11.3
80°-90°	160.1	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°	18455.0	100.0
0°-180°	18455.0	100.0

Coefficient of Utilization



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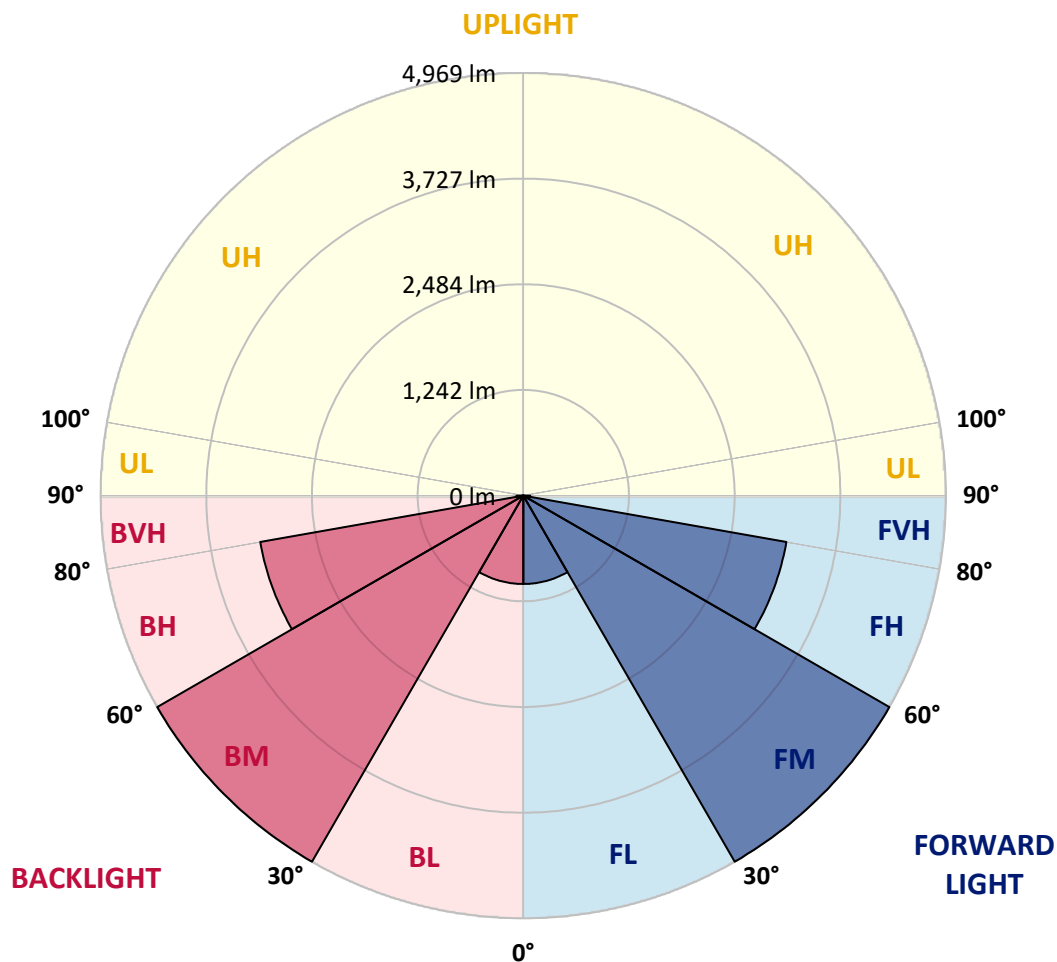
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1038.4	5.6			
FM	(30°-60°)	4969.0	26.9			
FH	(60°-80°)	3140.1	17.0			G2/5000
FVH	(80°-90°)	80.1	0.4			G1/100
BL	(0°-30°)	1038.4	5.6	B3/2500		
BM	(30°-60°)	4969.0	26.9	B3/5000		
BH	(60°-80°)	3140.1	17.0	B4/5000		G4/5000
BVH	(80°-90°)	80.1	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1933.0	1933.0	1933.0	1933.0	1933.0	1933.0	1933.0	1933.0	1933.0	1933.0	1933.0
2.5°	1923.1	1925.1	1927.1	1930.0	1934.0	1939.9	1943.9	1946.8	1954.8	1955.7	1954.8
5°	1916.2	1918.2	1923.1	1932.0	1944.9	1962.7	1976.5	1993.3	2006.2	2015.1	2013.1
7.5°	1915.2	1919.2	1927.1	1945.9	1970.6	2001.2	2032.9	2061.5	2086.3	2106.0	2103.1
10°	1931.0	1936.0	1948.8	1976.5	2015.1	2059.6	2104.1	2146.6	2182.2	2207.9	2216.8
12.5°	1957.7	1961.7	1985.4	2026.9	2082.3	2137.7	2188.1	2240.5	2289.9	2333.4	2333.4
15°	2004.2	2011.1	2040.8	2101.1	2169.3	2233.6	2285.0	2340.4	2393.8	2443.2	2458.0
17.5°	2068.5	2078.3	2122.8	2200.0	2287.0	2346.3	2394.7	2440.2	2486.7	2534.2	2541.1
20°	2156.5	2166.3	2225.7	2318.6	2421.4	2492.6	2525.3	2536.1	2558.9	2604.4	2610.3
22.5°	2276.1	2286.0	2352.2	2457.0	2571.7	2648.9	2662.7	2637.0	2631.1	2666.6	2670.6
25°	2411.6	2420.5	2496.6	2609.3	2728.0	2812.0	2808.0	2744.8	2709.2	2730.9	2736.8
27.5°	2563.8	2576.7	2653.8	2770.5	2899.0	2973.2	2961.3	2869.3	2793.2	2789.3	2791.2
30°	2758.6	2772.4	2845.6	2957.3	3083.9	3152.1	3127.4	3003.8	2886.1	2846.6	2846.6
32.5°	2964.3	2998.9	3073.0	3189.7	3288.6	3338.0	3300.4	3152.1	2995.9	2940.5	2937.6
35°	3232.2	3251.0	3324.2	3437.9	3512.0	3550.6	3478.4	3319.2	3139.3	3074.0	3065.1
37.5°	3494.2	3510.0	3595.1	3703.8	3793.8	3791.8	3694.0	3518.0	3317.2	3244.1	3238.1
40°	3762.2	3779.0	3875.9	3975.7	4065.7	4057.8	3939.2	3742.4	3528.8	3446.8	3462.6
42.5°	3994.5	4013.3	4123.1	4265.5	4346.5	4344.5	4207.1	3985.6	3763.2	3690.0	3703.8
45°	4206.1	4222.9	4350.5	4513.6	4632.3	4647.1	4496.8	4262.5	4034.1	3940.2	3944.1
47.5°	4355.4	4387.1	4520.5	4707.4	4868.6	4921.0	4773.7	4544.3	4281.3	4183.4	4189.3
50°	4469.1	4488.9	4634.3	4846.8	5050.5	5159.3	5040.6	4805.3	4528.5	4424.6	4438.5
52.5°	4483.0	4506.7	4664.9	4910.1	5171.1	5336.3	5277.9	5060.4	4780.6	4673.8	4703.5
55°	4370.3	4384.1	4573.0	4870.6	5218.6	5467.8	5482.6	5297.7	5020.9	4939.8	4959.5
57.5°	4048.9	4084.5	4323.8	4685.7	5153.3	5538.0	5635.9	5513.2	5264.1	5184.0	5215.6
60°	3521.9	3557.5	3797.8	4256.6	4907.1	5505.3	5762.4	5704.1	5484.6	5420.3	5437.1
62.5°	2759.6	2756.6	3054.2	3616.8	4417.7	5345.2	5856.3	5888.0	5702.1	5621.0	5646.7
65°	1788.6	1797.5	2085.3	2691.4	3679.1	4937.8	5877.1	6122.3	5915.7	5793.1	5811.8
66°	1438.6	1465.3	1709.5	2268.2	3302.4	4670.8	5814.8	6191.5	5980.9	5832.6	5841.5
67.5°	1061.9	1057.0	1257.7	1688.8	2637.0	4163.6	5620.0	6235.0	6055.1	5868.2	5872.2
70°	606.1	605.1	676.3	927.4	1550.4	2931.6	4737.1	6026.4	6205.4	5996.7	5985.9
72.5°	443.0	440.0	449.9	512.2	756.4	1480.2	3267.8	5267.0	6128.2	5976.0	5945.3
75°	371.8	369.8	367.8	375.7	424.2	670.4	1734.3	3788.9	5317.5	5609.2	5577.5
77.5°	303.5	303.5	304.5	302.6	304.5	353.0	718.8	2030.9	3238.1	3614.9	3702.9
80°	237.3	236.3	253.1	246.2	230.4	226.4	318.4	653.6	1074.8	1068.8	882.0
82.5°	175.0	163.1	192.8	187.9	170.1	144.4	185.9	278.8	358.9	233.3	173.0
85°	110.7	109.8	136.4	124.6	103.8	68.2	89.0	119.6	148.3	90.0	73.2
87.5°	19.8	18.8	43.5	31.6	31.6	19.8	24.7	32.6	48.4	33.6	24.7
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)