

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: P455701

Luminaire Tested: **GALN-SA6D-830-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455701
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6D-830-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38043 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 368
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

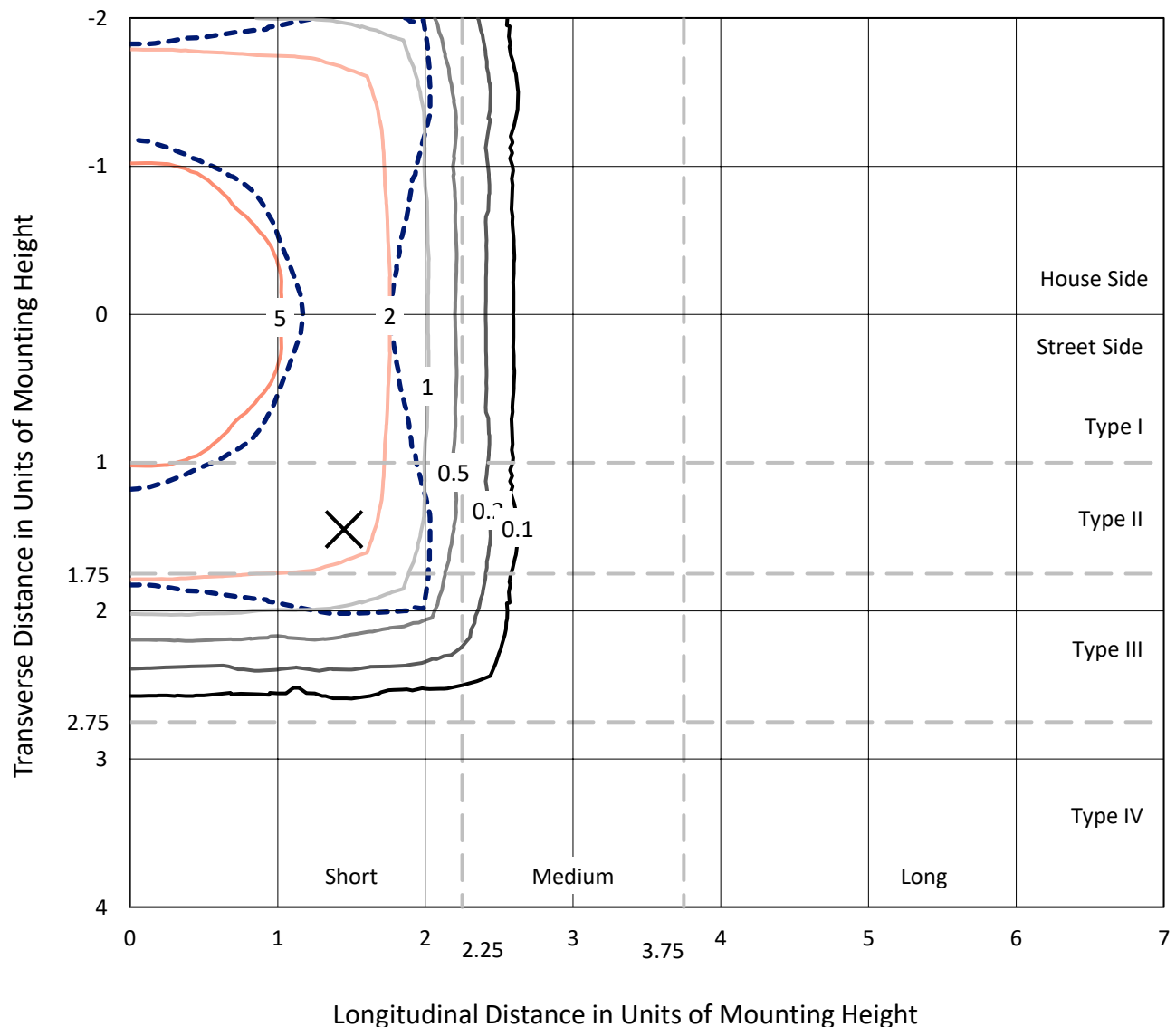


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

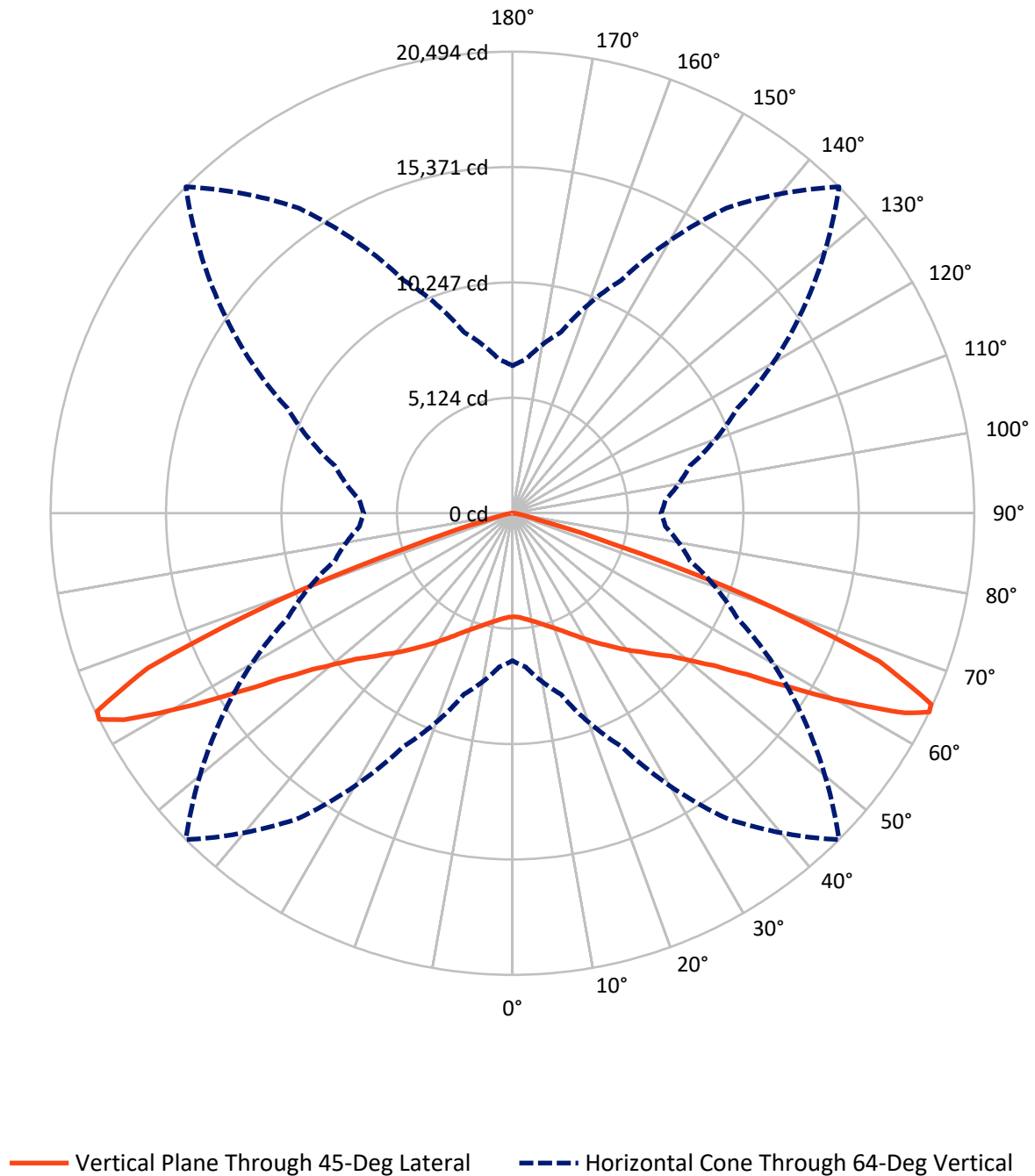


Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19021.5	0.0	19021.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	19021.5	0.0	19021.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	38043.0	0.0	38043.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	451.7	1.2
10°-20°	1457.1	3.8
20°-30°	2753.6	7.2
30°-40°	4560.2	12.0
40°-50°	7119.2	18.7
50°-60°	11006.2	28.9
60°-70°	9490.5	24.9
70°-80°	1075.5	2.8
80°-90°	128.9	0.3
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°	38043.0	100.0
0°-180°	38043.0	100.0

Coefficient of Utilization



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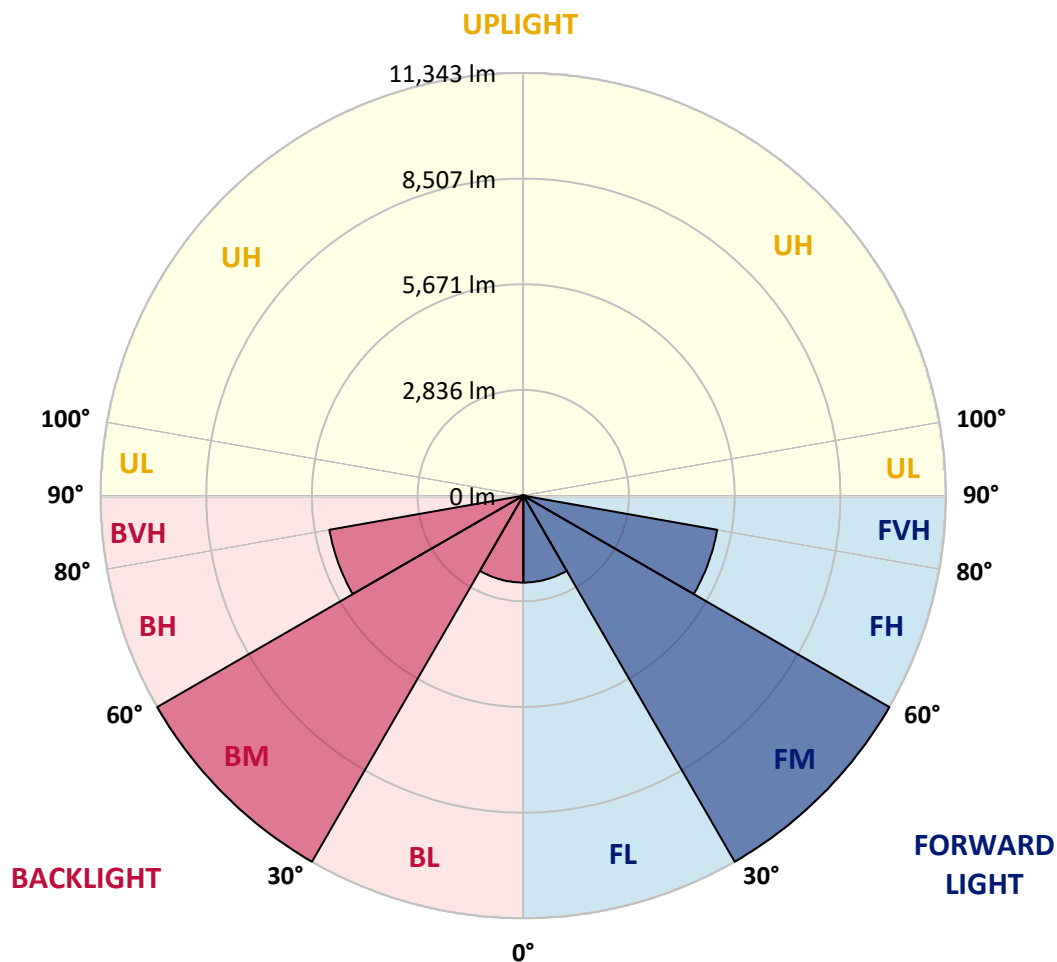
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2331.2	6.1			
FM	(30°-60°)	11342.8	29.8			
FH	(60°-80°)	5283.0	13.9			G3/7500
FVH	(80°-90°)	64.4	0.2			G1/100
BL	(0°-30°)	2331.2	6.1	B3/2500		
BM	(30°-60°)	11342.8	29.8	B5		
BH	(60°-80°)	5283.0	13.9	B5		G3/7500
BVH	(80°-90°)	64.4	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4598.1	4598.1	4598.1	4598.1	4598.1	4598.1	4598.1	4598.1	4598.1	4598.1	4598.1
2.5°	4616.3	4626.3	4618.3	4616.3	4614.3	4614.3	4614.3	4616.3	4624.3	4630.4	4626.3
5°	4674.7	4682.8	4678.7	4676.7	4674.7	4676.7	4672.7	4670.7	4676.7	4676.7	4674.7
7.5°	4747.2	4757.3	4753.3	4757.3	4759.3	4761.3	4751.3	4743.2	4741.2	4747.2	4743.2
10°	4846.0	4854.0	4856.1	4858.1	4862.1	4860.1	4848.0	4833.9	4831.9	4829.9	4827.8
12.5°	4956.8	4962.8	4964.9	4972.9	4979.0	4981.0	4966.9	4954.8	4934.6	4938.7	4930.6
15°	5081.7	5093.8	5091.8	5103.9	5120.0	5124.0	5109.9	5089.8	5071.7	5061.6	5055.5
17.5°	5234.9	5242.9	5238.9	5251.0	5271.1	5281.2	5269.1	5242.9	5224.8	5202.6	5190.5
20°	5416.2	5430.3	5434.3	5434.3	5452.5	5462.6	5444.4	5436.4	5408.1	5392.0	5382.0
22.5°	5621.7	5627.8	5639.9	5652.0	5670.1	5666.1	5660.0	5647.9	5621.7	5607.6	5591.5
25°	5853.5	5859.5	5889.7	5915.9	5922.0	5917.9	5909.9	5903.8	5879.7	5847.4	5835.3
27.5°	6123.5	6135.5	6175.8	6200.0	6200.0	6202.0	6185.9	6206.1	6153.7	6115.4	6111.4
30°	6462.0	6470.0	6504.3	6528.5	6516.4	6506.3	6502.3	6522.4	6466.0	6397.5	6381.4
32.5°	6796.5	6824.7	6854.9	6907.3	6865.0	6846.8	6842.8	6856.9	6792.4	6715.9	6693.7
35°	7155.1	7175.3	7231.7	7276.0	7237.7	7195.4	7213.6	7257.9	7181.3	7078.6	7074.5
37.5°	7552.1	7570.2	7642.7	7689.1	7660.9	7588.3	7618.6	7670.9	7594.4	7467.4	7441.2
40°	7965.1	8003.4	8094.1	8142.4	8096.1	7999.4	8055.8	8112.2	8043.7	7896.6	7838.2
42.5°	8428.6	8489.0	8620.0	8644.2	8555.5	8424.5	8523.3	8613.9	8565.6	8396.3	8374.2
45°	8970.6	9006.9	9168.1	9220.5	9097.5	8934.3	9057.2	9222.5	9186.2	8990.7	8948.4
47.5°	9577.1	9611.4	9778.6	9857.2	9702.0	9482.4	9704.0	9919.6	9897.5	9687.9	9667.8
50°	10294.4	10302.5	10534.2	10622.9	10467.7	10278.3	10475.8	10743.8	10655.1	10387.1	10383.1
52.5°	11080.3	11090.3	11382.5	11553.8	11467.1	11253.5	11487.3	11650.5	11424.8	11074.2	11048.0
55°	11761.3	11811.7	12210.7	12666.0	12784.9	12629.8	12700.3	12623.7	12067.6	11575.9	11499.4
57.5°	12039.4	12138.1	12744.6	13594.9	14368.7	14598.4	14054.3	13324.9	12323.5	11628.3	11553.8
60°	11360.3	11467.1	12408.1	14022.1	15996.8	16994.2	15464.8	13443.8	11741.2	10763.9	10647.0
62.5°	9097.5	9127.8	10512.0	13016.6	16945.8	19529.0	16059.2	12430.3	10046.6	8718.7	8672.4
64°	6546.6	6856.9	8323.8	11412.7	16530.7	20494.1	15716.7	11009.7	8160.6	6816.6	6599.0
65°	4896.4	4981.0	6709.8	9746.4	15799.3	20421.6	15051.7	9651.7	6758.2	5216.7	4974.9
67.5°	1849.7	1859.8	2476.4	4858.1	11247.5	17570.4	11487.3	5251.0	2847.1	2059.3	1984.7
70°	767.7	781.8	908.7	1634.1	4833.9	11281.8	5539.1	1894.1	1041.7	844.3	832.2
72.5°	562.2	570.2	608.5	725.4	1487.0	4632.4	1821.5	804.0	610.5	546.1	540.0
75°	441.3	445.3	473.5	534.0	693.1	1283.5	757.6	552.1	465.5	419.1	415.1
77.5°	336.5	346.6	366.7	407.0	465.5	608.5	501.7	413.1	358.7	320.4	314.3
80°	231.7	243.8	282.1	298.2	312.3	394.9	342.5	312.3	280.1	233.7	219.6
82.5°	143.1	151.1	189.4	203.5	197.5	221.6	219.6	223.7	199.5	145.1	135.0
85°	74.6	78.6	102.8	106.8	98.7	90.7	112.8	131.0	122.9	82.6	80.6
87.5°	16.1	18.1	22.2	20.1	22.2	22.2	28.2	42.3	44.3	28.2	26.2
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)