

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: P453846

Luminaire Tested: **GALN-SA4D-830-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453846
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4D-830-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25452 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 245
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



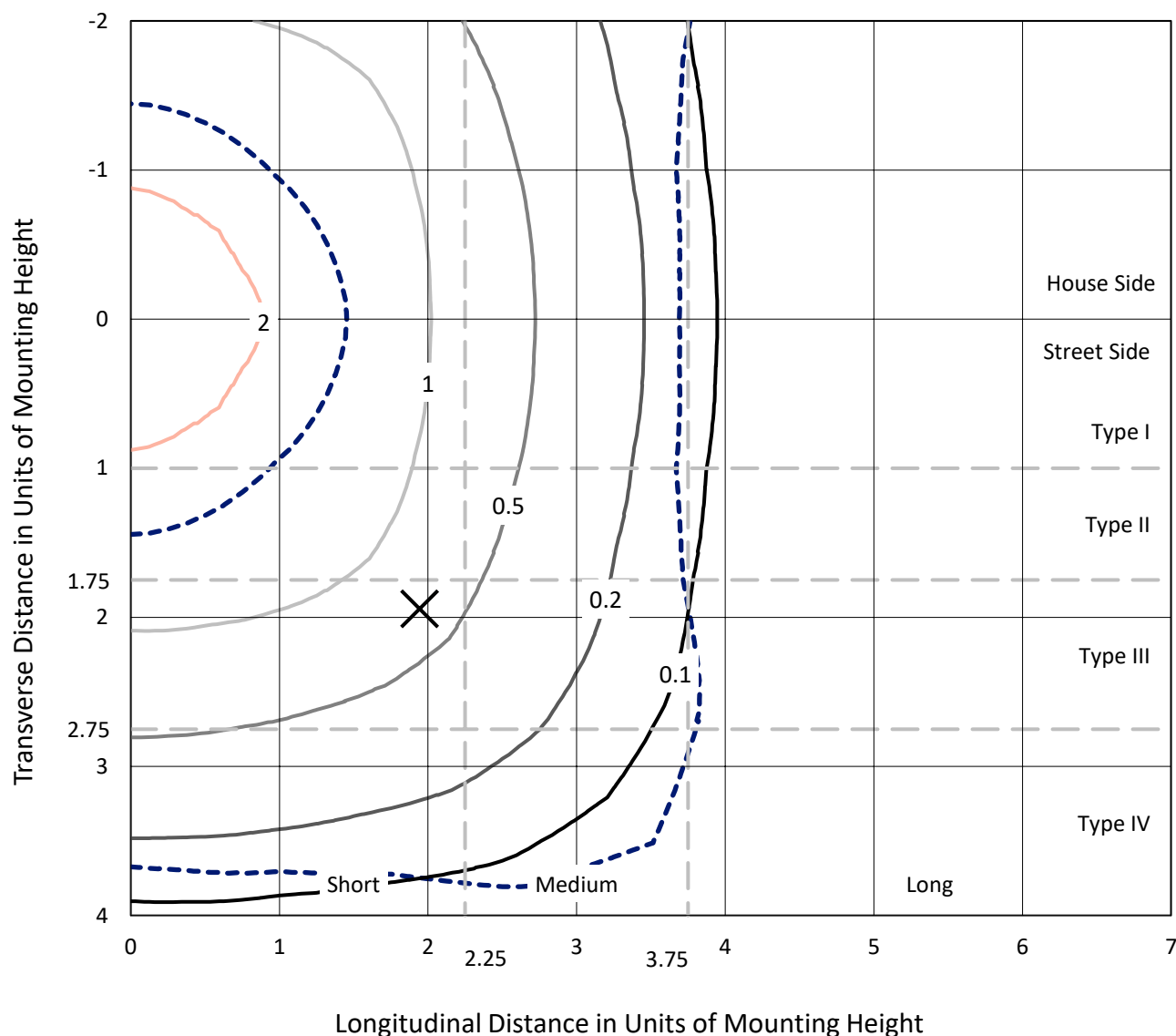
REPORT NUMBER: P453846

CATALOG NUMBER: GALN-SA4D-830-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

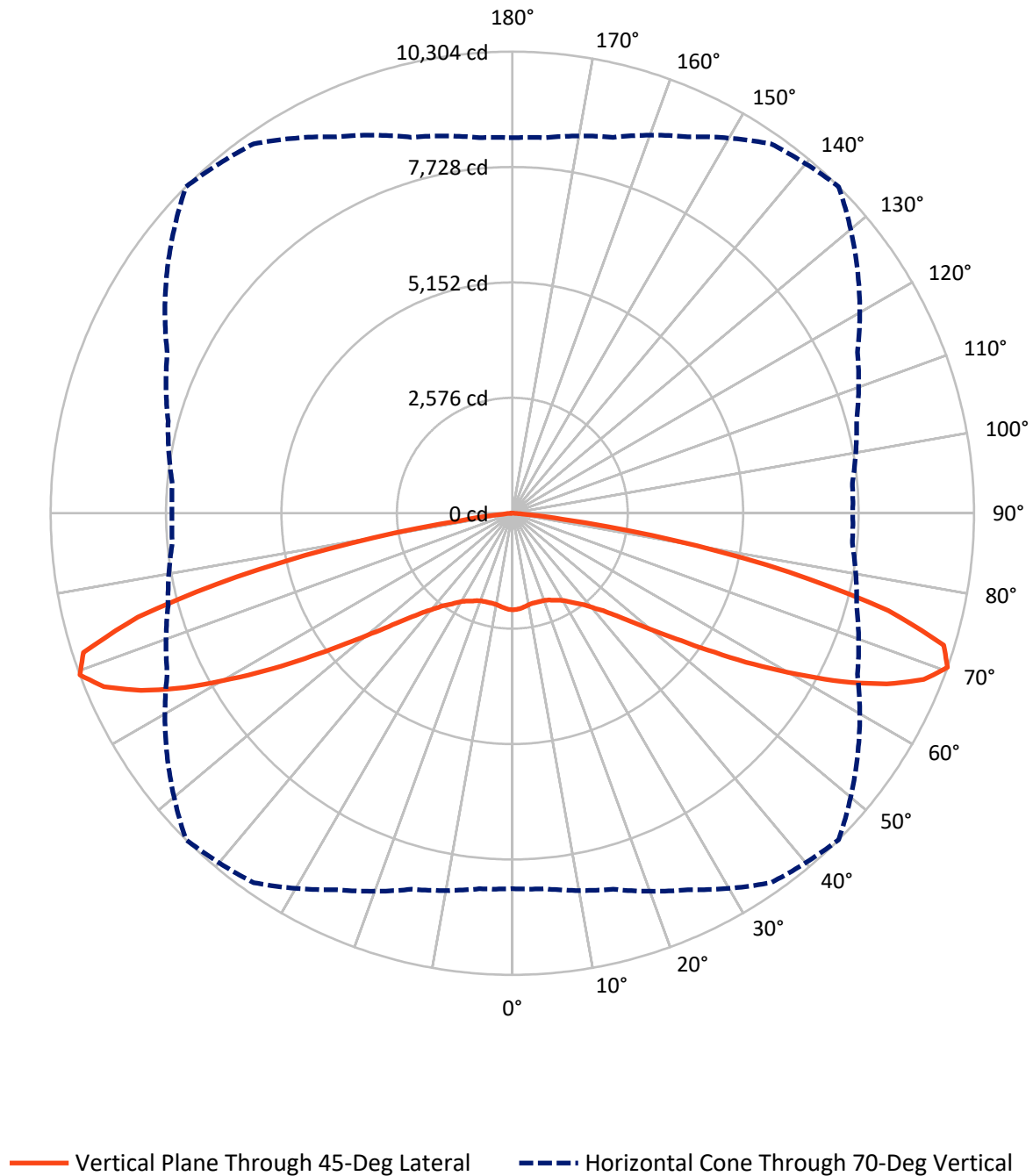


Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type V - Short - N/A

REPORT NUMBER: P453846

CATALOG NUMBER: GALN-SA4D-830-U-5WQ

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12726.0	0.0	12726.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12726.0	0.0	12726.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	25452.0	0.0	25452.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.5	0.8
10°-20°	590.0	2.3
20°-30°	1005.1	3.9
30°-40°	1558.0	6.1
40°-50°	2622.3	10.3
50°-60°	4771.1	18.7
60°-70°	8077.3	31.7
70°-80°	6252.2	24.6
80°-90°	374.6	1.5
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°	25452.0	100.0
0°-180°	25452.0	100.0

Coefficient of Utilization



REPORT NUMBER: P453846

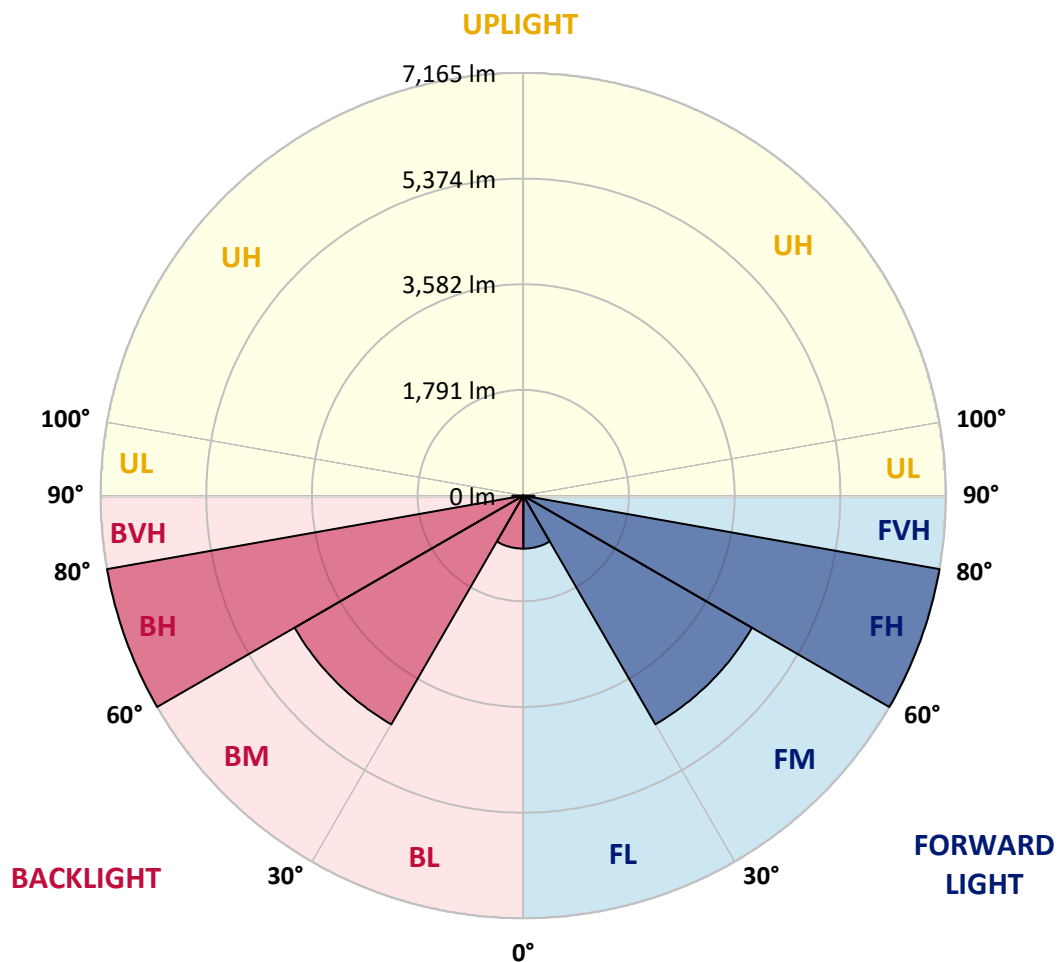
CATALOG NUMBER: GALN-SA4D-830-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	898.3	3.5			
FM	(30°-60°)	4475.6	17.6			
FH	(60°-80°)	7164.7	28.1			G3/7500
FVH	(80°-90°)	187.3	0.7			G2/225
BL	(0°-30°)	898.3	3.5	B2/1000		
BM	(30°-60°)	4475.6	17.6	B3/5000		
BH	(60°-80°)	7164.7	28.1	B5		G3/7500
BVH	(80°-90°)	187.3	0.7			G2/225
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°	2154.8	2154.8	2154.8	2154.8	2154.8	2154.8	2154.8	2154.8	2154.8	2154.8	2154.8
2.5°	2149.4	2150.8	2150.8	2148.1	2146.8	2146.8	2145.4	2145.4	2149.4	2150.8	2152.1
5°	2130.6	2130.6	2130.6	2129.3	2126.6	2126.6	2123.9	2123.9	2125.3	2129.3	2126.6
7.5°	2105.1	2107.8	2107.8	2102.4	2098.4	2098.4	2097.0	2098.4	2099.7	2103.7	2102.4
10°	2097.0	2098.4	2091.6	2082.2	2075.5	2071.5	2072.8	2075.5	2082.2	2084.9	2086.3
12.5°	2102.4	2102.4	2090.3	2076.9	2064.8	2059.4	2058.0	2067.4	2079.5	2087.6	2090.3
15°	2109.1	2106.4	2091.6	2074.2	2062.1	2060.7	2059.4	2066.1	2083.6	2099.7	2101.1
17.5°	2113.2	2111.8	2093.0	2071.5	2064.8	2064.8	2063.4	2068.8	2087.6	2107.8	2109.1
20°	2126.6	2122.6	2101.1	2078.2	2072.8	2075.5	2071.5	2078.2	2098.4	2122.6	2127.9
22.5°	2153.5	2149.4	2127.9	2105.1	2102.4	2102.4	2101.1	2107.8	2129.3	2154.8	2158.9
25°	2185.7	2181.7	2161.5	2145.4	2148.1	2153.5	2150.8	2152.1	2169.6	2191.1	2197.8
27.5°	2228.8	2222.0	2204.6	2191.1	2199.2	2199.2	2199.2	2197.8	2208.6	2228.8	2235.5
30°	2281.2	2278.5	2259.7	2258.3	2265.1	2258.3	2258.3	2259.7	2261.0	2279.8	2286.6
32.5°	2349.7	2344.4	2335.0	2332.3	2351.1	2356.5	2337.6	2320.2	2329.6	2348.4	2352.4
35°	2462.7	2454.6	2441.1	2426.4	2441.1	2466.7	2426.4	2412.9	2437.1	2462.7	2465.3
37.5°	2615.9	2611.9	2590.4	2563.5	2562.1	2589.0	2547.3	2546.0	2591.7	2622.6	2626.7
40°	2808.1	2812.2	2785.3	2759.7	2746.3	2767.8	2735.5	2747.6	2792.0	2826.9	2824.3
42.5°	3078.3	3063.5	3021.9	2997.7	2982.9	2974.8	2966.7	2985.6	3035.3	3072.9	3102.5
45°	3394.2	3388.8	3336.4	3306.8	3274.6	3262.5	3259.8	3293.4	3353.9	3399.6	3403.6
47.5°	3751.8	3739.7	3706.1	3675.2	3663.1	3648.3	3634.8	3660.4	3720.9	3753.1	3762.5
50°	4120.1	4122.8	4122.8	4117.4	4129.5	4132.2	4095.9	4105.3	4138.9	4136.2	4133.6
52.5°	4540.9	4555.6	4625.5	4632.3	4690.1	4729.1	4663.2	4624.2	4612.1	4539.5	4544.9
55°	5035.5	5049.0	5153.8	5258.7	5414.6	5480.5	5342.0	5221.0	5135.0	5024.8	5030.2
57.5°	5652.5	5659.3	5758.7	5960.4	6207.7	6362.3	6119.0	5879.7	5705.0	5600.1	5558.4
60°	6316.6	6323.3	6468.5	6714.5	7099.0	7287.1	6986.0	6594.9	6374.4	6214.4	6225.2
62.5°	7113.7	7140.6	7271.0	7609.8	8076.2	8287.3	7888.0	7365.1	7066.7	6867.7	6875.8
65°	7967.3	8013.0	8155.5	8527.9	8958.0	9185.2	8695.9	8092.4	7721.3	7478.0	7503.6
67.5°	8521.2	8561.5	8767.2	9178.5	9714.9	9903.0	9271.3	8568.2	8104.4	7814.1	7760.3
70°	8380.0	8413.6	8687.9	9271.3	10065.7	10303.6	9408.4	8498.3	7952.5	7617.8	7596.3
72.5°	7397.4	7327.5	7728.1	8565.5	9665.1	10064.4	8976.9	7761.7	7074.8	6730.6	6690.3
75°	4902.5	5054.4	5645.8	6632.5	8177.0	8671.7	7662.2	6231.9	5367.6	5081.2	5036.9
77.5°	1638.6	1755.6	2281.2	3759.9	5574.6	6317.9	5582.6	4075.7	2883.4	2322.9	2333.6
80°	434.2	428.8	555.2	1033.7	2408.9	3659.0	2804.1	1380.5	755.5	547.1	518.9
82.5°	155.9	174.8	224.5	286.3	638.5	1137.2	802.5	387.1	283.6	209.7	203.0
85°	68.6	67.2	96.8	114.3	160.0	212.4	188.2	164.0	143.8	95.4	88.7
87.5°	14.8	14.8	22.9	17.5	28.2	28.2	35.0	41.7	43.0	28.2	22.9
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)