

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: P529729

Luminaire Tested: **GALN-SA4D-830-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529729
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-3)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4D-830-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14594 lumens
Efficiency: N/A
Efficacy: 59.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G0

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



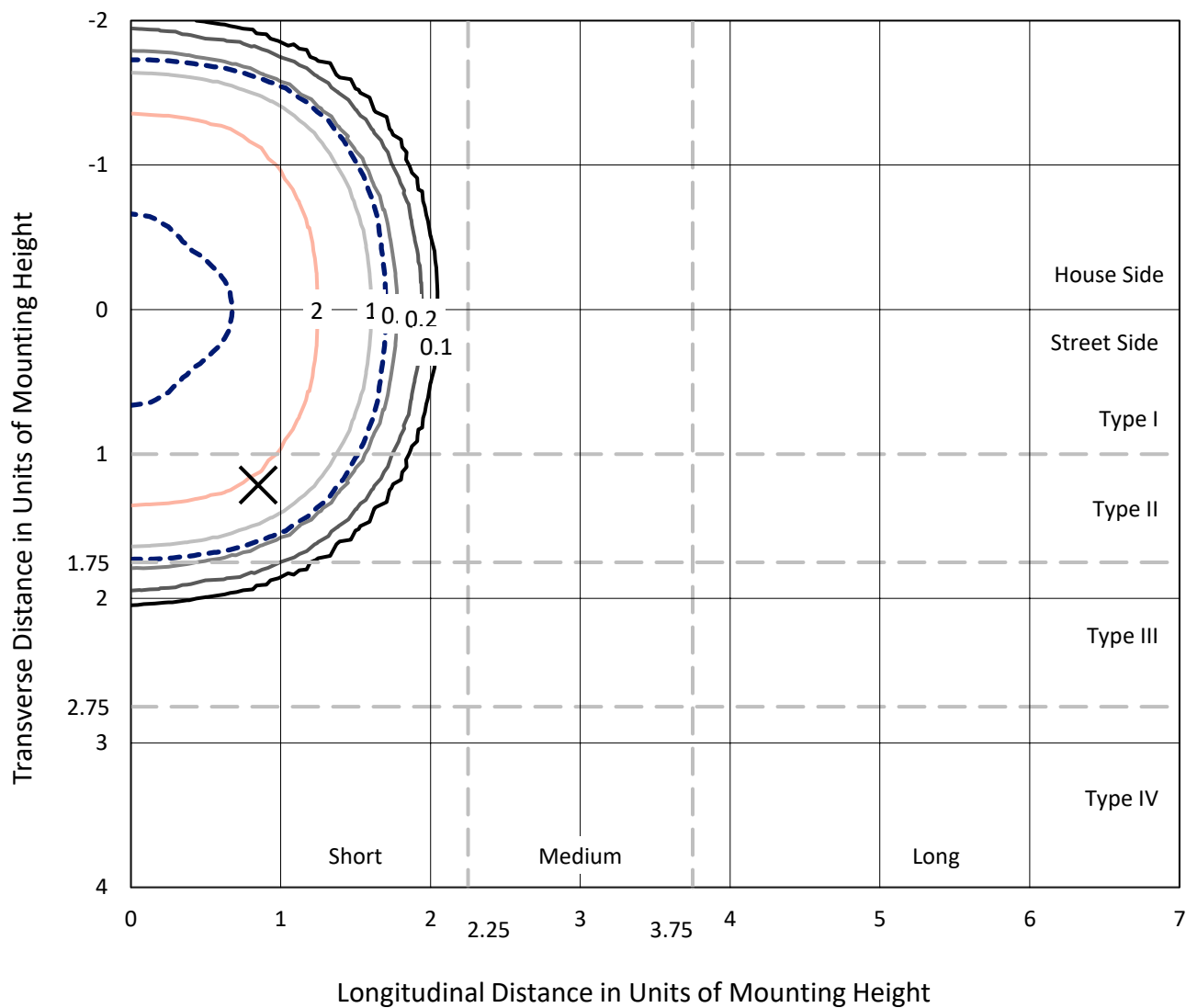
REPORT NUMBER: P529729

CATALOG NUMBER: GALN-SA4D-830-U-5MQ-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

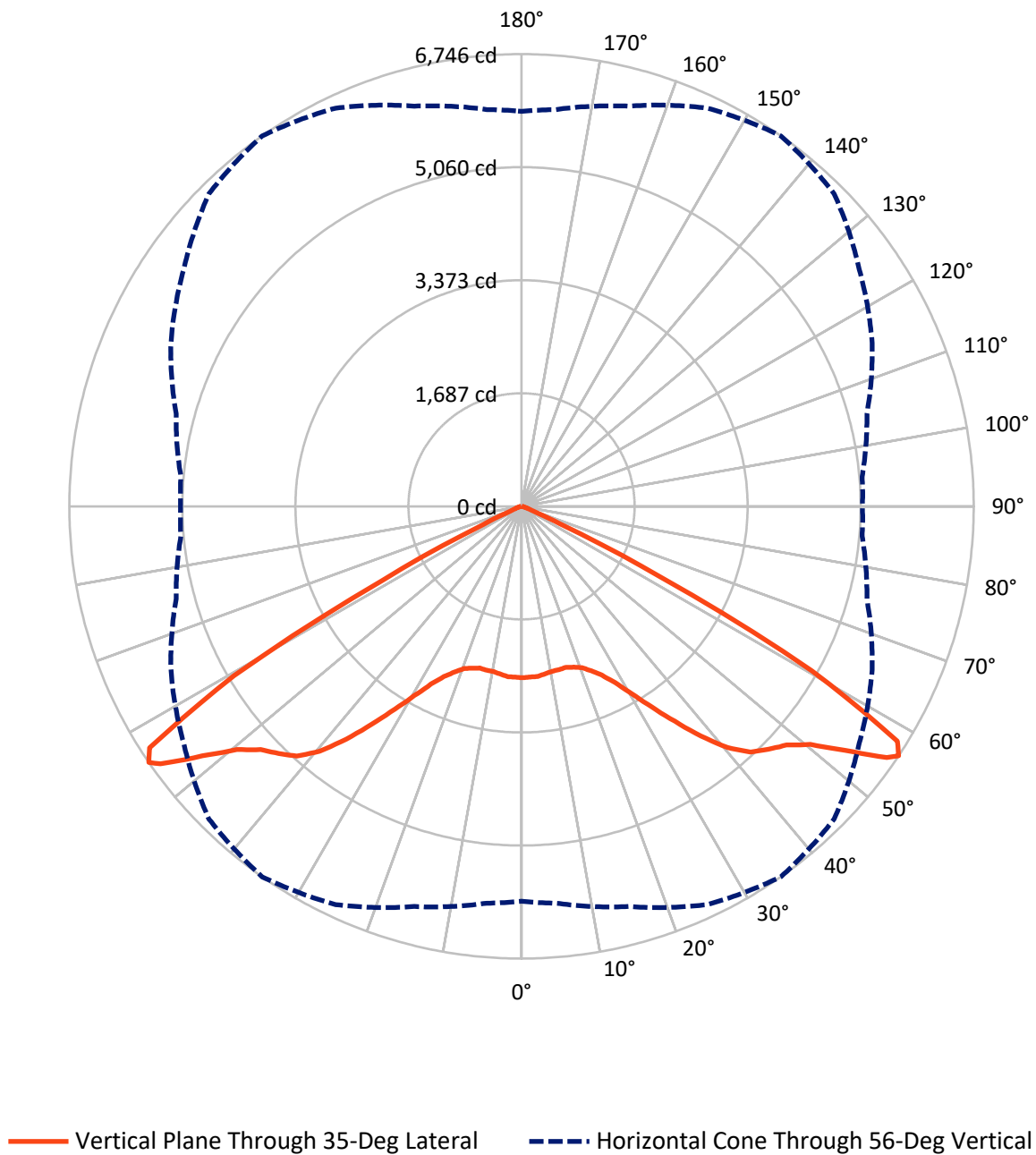


Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type V - Short - N/A

REPORT NUMBER: P529729

CATALOG NUMBER: GALN-SA4D-830-U-5MQ-GRSBK

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7297.0	0.0	7297.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7297.0	0.0	7297.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	14594.0	0.0	14594.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.3	1.6
10°-20°	701.7	4.8
20°-30°	1270.6	8.7
30°-40°	2356.2	16.1
40°-50°	3867.5	26.5
50°-60°	4982.5	34.1
60°-70°	1098.1	7.5
70°-80°	63.7	0.4
80°-90°	13.4	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°	14594.0	100.0
0°-180°	14594.0	100.0

Coefficient of Utilization



REPORT NUMBER: P529729

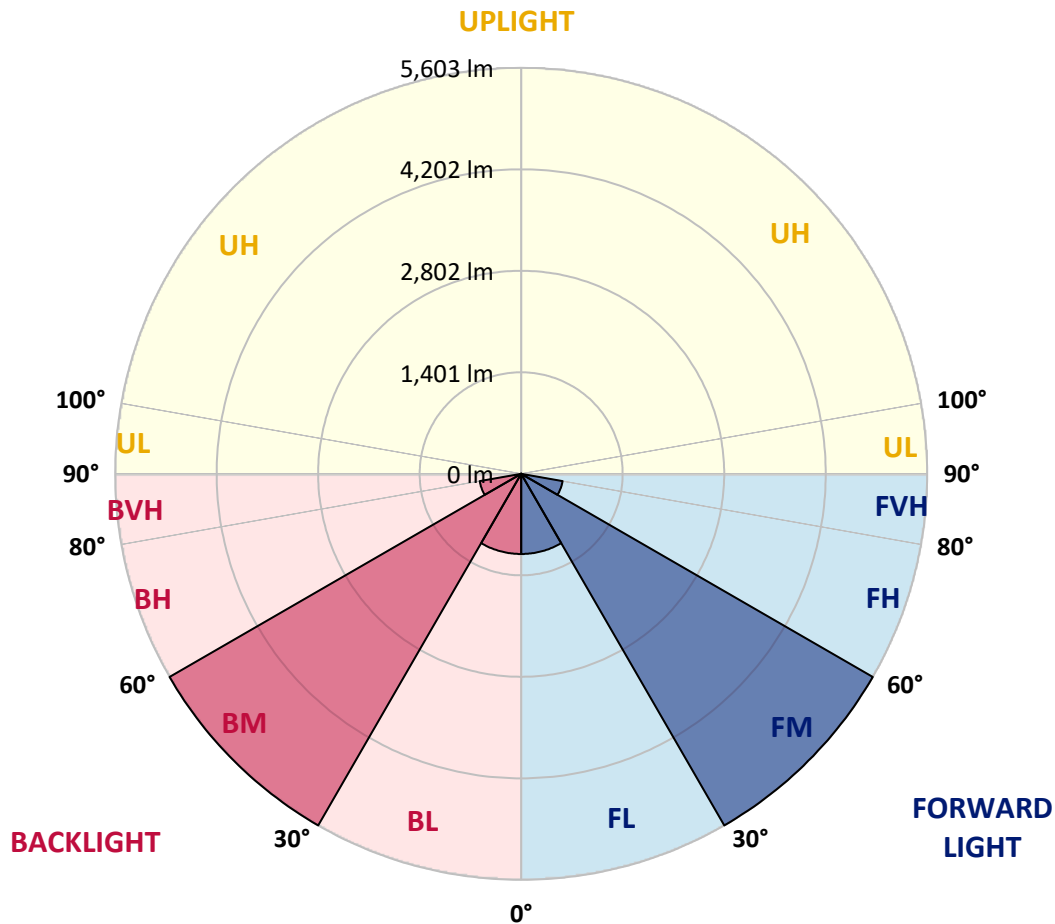
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1106.3	7.6			
FM	(30°-60°)	5603.1	38.4			
FH	(60°-80°)	580.9	4.0			G0/660
FVH	(80°-90°)	6.7	0.0			G0/10
BL	(0°-30°)	1106.3	7.6	B3/2500		
BM	(30°-60°)	5603.1	38.4	B4/8500		
BH	(60°-80°)	580.9	4.0	B2/1000		G0/660
BVH	(80°-90°)	6.7	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G0

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2557.2	2557.2	2557.2	2557.2	2557.2	2557.2	2557.2	2557.2	2557.2	2557.2	2557.2
2.5°	2562.5	2562.5	2565.1	2567.8	2549.2	2541.3	2544.0	2538.7	2536.0	2544.0	2544.0
5°	2554.5	2554.5	2546.6	2549.2	2549.2	2525.4	2525.4	2530.7	2530.7	2514.9	2509.6
7.5°	2533.4	2528.1	2517.5	2530.7	2522.8	2522.8	2504.3	2491.1	2485.8	2496.4	2485.8
10°	2488.4	2491.1	2501.6	2506.9	2501.6	2517.5	2485.8	2467.3	2448.8	2440.8	2440.8
12.5°	2467.3	2483.1	2467.3	2480.5	2499.0	2485.8	2467.3	2454.0	2427.6	2417.0	2417.0
15°	2464.6	2475.2	2480.5	2499.0	2491.1	2496.4	2459.3	2443.5	2403.8	2385.3	2377.4
17.5°	2462.0	2475.2	2483.1	2517.5	2522.8	2525.4	2496.4	2448.8	2414.4	2395.9	2377.4
20°	2491.1	2496.4	2512.2	2546.6	2567.8	2604.8	2551.9	2501.6	2427.6	2406.4	2398.5
22.5°	2528.1	2554.5	2570.4	2607.4	2663.0	2694.7	2625.9	2562.5	2485.8	2459.3	2427.6
25°	2647.1	2641.8	2668.2	2744.9	2789.9	2813.7	2758.2	2665.6	2565.1	2533.4	2538.7
27.5°	2795.2	2800.5	2824.3	2908.9	2975.0	3012.0	2945.9	2824.3	2726.4	2673.5	2668.2
30°	2988.2	2982.9	3009.4	3123.1	3242.1	3297.6	3181.3	3038.5	2943.3	2874.5	2890.4
32.5°	3191.9	3194.5	3268.5	3371.7	3564.7	3673.1	3485.4	3310.9	3168.1	3120.5	3096.7
35°	3493.3	3506.5	3564.7	3723.4	3937.6	4077.7	3871.5	3662.6	3498.6	3411.3	3421.9
37.5°	3866.2	3853.0	3950.8	4122.7	4347.5	4450.6	4276.1	4038.1	3871.5	3813.3	3850.3
40°	4262.9	4276.1	4326.3	4482.3	4733.6	4802.3	4543.2	4413.6	4268.1	4239.1	4284.0
42.5°	4659.5	4651.6	4688.6	4828.8	5011.2	4963.6	4810.3	4733.6	4630.4	4572.3	4633.1
45°	4950.4	4937.2	5005.9	5101.1	5167.3	5077.3	5008.6	4982.1	4929.3	4865.8	4921.3
47.5°	5233.4	5222.8	5288.9	5315.3	5320.6	5201.6	5214.9	5262.5	5130.2	4998.0	5061.5
50°	5474.0	5455.5	5537.5	5595.7	5582.4	5392.0	5439.6	5392.0	5185.8	5029.7	5005.9
52.5°	5876.0	5883.9	5971.2	6076.9	6045.2	5886.5	5817.8	5600.9	5336.5	5196.3	5114.4
55°	6129.8	6090.2	6240.9	6576.7	6613.8	6449.8	6145.7	5825.7	5429.1	5257.2	5236.0
56°	5891.8	5942.1	6180.1	6555.6	6746.0	6595.3	6153.6	5770.2	5333.9	5101.1	5085.3
57.5°	5286.3	5259.8	5582.4	6095.5	6613.8	6550.3	5936.8	5373.5	4865.8	4604.0	4572.3
60°	3289.7	3366.4	3649.3	4284.0	4976.9	5008.6	4400.4	3916.4	3324.1	3091.4	3146.9
62.5°	1287.8	1221.7	1398.9	1872.3	2348.3	2454.0	2224.0	1848.5	1517.9	1287.8	1272.0
65°	298.8	290.9	327.9	452.2	632.0	732.5	695.5	499.8	367.6	349.1	322.6
67.5°	169.2	169.2	161.3	161.3	177.2	187.8	179.8	177.2	185.1	193.0	190.4
70°	119.0	116.4	111.1	113.7	108.4	108.4	116.4	129.6	140.2	140.2	142.8
72.5°	71.4	71.4	71.4	79.3	79.3	79.3	87.3	97.8	100.5	97.8	95.2
75°	31.7	31.7	37.0	45.0	50.2	52.9	60.8	66.1	71.4	66.1	60.8
77.5°	7.9	7.9	13.2	18.5	23.8	29.1	39.7	47.6	50.2	47.6	39.7
80°	2.6	2.6	5.3	13.2	23.8	29.1	39.7	42.3	45.0	39.7	31.7
82.5°	2.6	2.6	5.3	13.2	18.5	23.8	31.7	37.0	39.7	34.4	31.7
85°	0.0	2.6	5.3	10.6	15.9	21.2	21.2	15.9	13.2	7.9	10.6
87.5°	0.0	0.0	2.6	2.6	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)