

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: P454077

Luminaire Tested: **GALN-SA5A-830-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454077
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-SA5A-830-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18992 lumens
Efficiency: N/A
Efficacy: 123.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 154
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

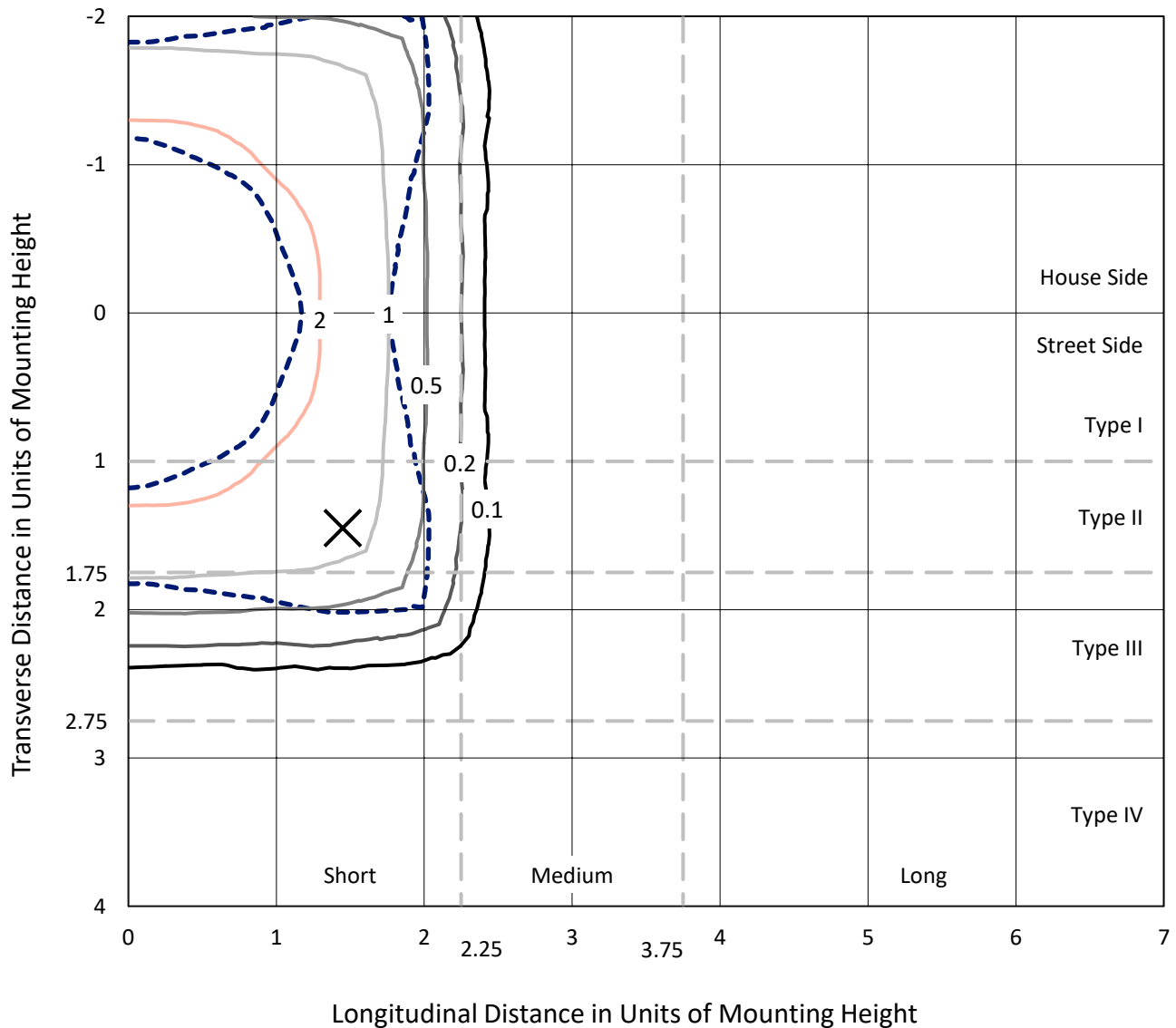


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

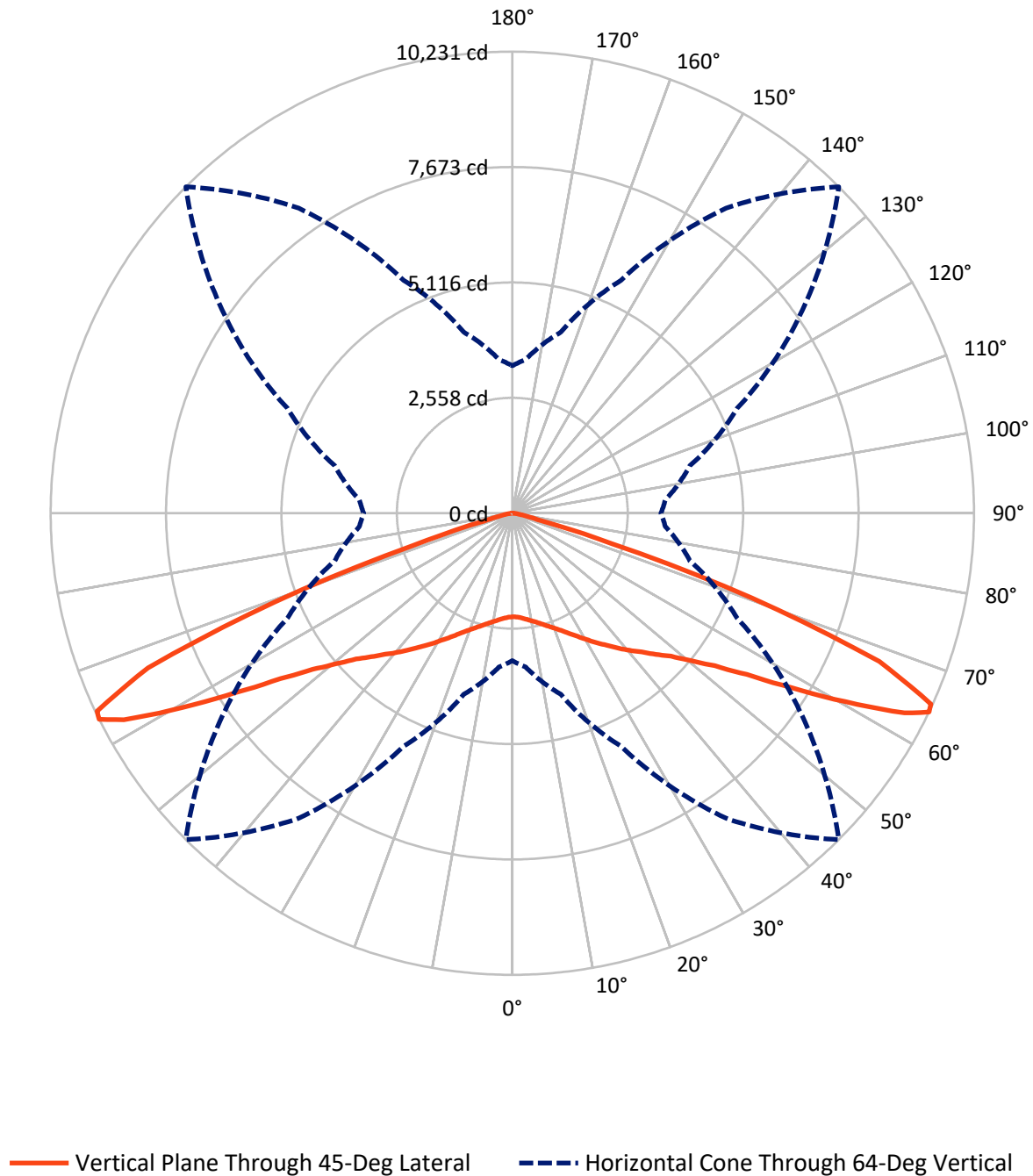


Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9496.0	0.0	9496.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9496.0	0.0	9496.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	18992.0	0.0	18992.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.5	1.2
10°-20°	727.4	3.8
20°-30°	1374.7	7.2
30°-40°	2276.6	12.0
40°-50°	3554.1	18.7
50°-60°	5494.6	28.9
60°-70°	4737.9	24.9
70°-80°	536.9	2.8
80°-90°	64.3	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°	18992.0	100.0
0°-180°	18992.0	100.0

Coefficient of Utilization



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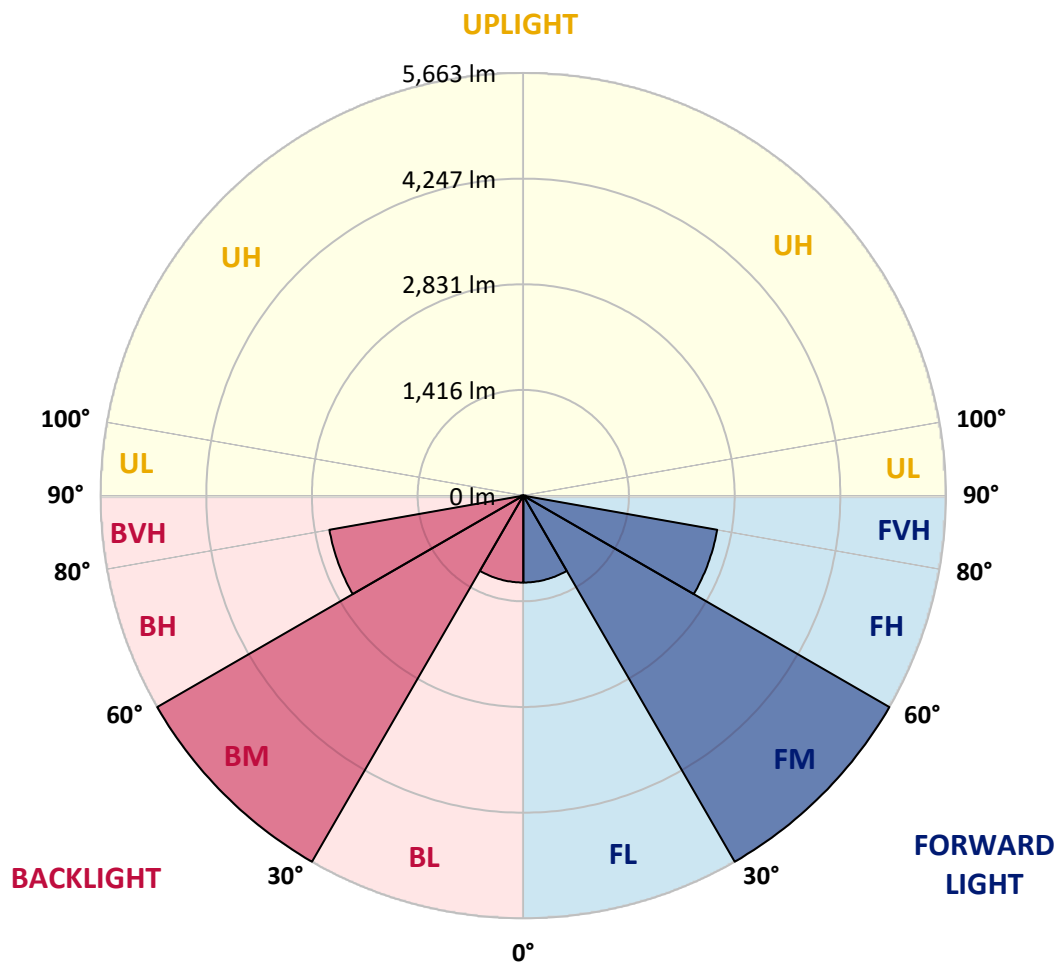
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1163.8	6.1			
FM	(30°-60°)	5662.6	29.8			
FH	(60°-80°)	2637.4	13.9			G2/5000
FVH	(80°-90°)	32.2	0.2			G1/100
BL	(0°-30°)	1163.8	6.1	B3/2500		
BM	(30°-60°)	5662.6	29.8	B4/8500		
BH	(60°-80°)	2637.4	13.9	B4/5000		G2/5000
BVH	(80°-90°)	32.2	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2295.5	2295.5	2295.5	2295.5	2295.5	2295.5	2295.5	2295.5	2295.5	2295.5	2295.5
2.5°	2304.6	2309.6	2305.6	2304.6	2303.5	2303.5	2303.5	2304.6	2308.6	2311.6	2309.6
5°	2333.7	2337.8	2335.7	2334.7	2333.7	2333.7	2332.7	2331.7	2334.7	2334.7	2333.7
7.5°	2369.9	2375.0	2373.0	2375.0	2376.0	2377.0	2372.0	2367.9	2366.9	2369.9	2367.9
10°	2419.2	2423.3	2424.3	2425.3	2427.3	2426.3	2420.2	2413.2	2412.2	2411.2	2410.2
12.5°	2474.6	2477.6	2478.6	2482.6	2485.6	2486.6	2479.6	2473.5	2463.5	2465.5	2461.5
15°	2536.9	2543.0	2542.0	2548.0	2556.0	2558.0	2551.0	2540.9	2531.9	2526.9	2523.8
17.5°	2613.4	2617.4	2615.4	2621.4	2631.5	2636.5	2630.5	2617.4	2608.3	2597.3	2591.2
20°	2703.9	2710.9	2713.0	2713.0	2722.0	2727.0	2718.0	2714.0	2699.9	2691.8	2686.8
22.5°	2806.5	2809.5	2815.6	2821.6	2830.7	2828.6	2825.6	2819.6	2806.5	2799.5	2791.4
25°	2922.2	2925.2	2940.3	2953.4	2956.4	2954.4	2950.4	2947.3	2935.3	2919.2	2913.1
27.5°	3057.0	3063.0	3083.1	3095.2	3095.2	3096.2	3088.2	3098.2	3072.1	3053.0	3050.9
30°	3226.0	3230.0	3247.1	3259.2	3253.1	3248.1	3246.1	3256.2	3228.0	3193.8	3185.7
32.5°	3393.0	3407.0	3422.1	3448.3	3427.2	3418.1	3416.1	3423.1	3390.9	3352.7	3341.7
35°	3572.0	3582.1	3610.2	3632.4	3613.3	3592.1	3601.2	3623.3	3585.1	3533.8	3531.8
37.5°	3770.2	3779.2	3815.4	3838.6	3824.5	3788.3	3803.4	3829.5	3791.3	3727.9	3714.9
40°	3976.4	3995.5	4040.8	4064.9	4041.8	3993.5	4021.7	4049.8	4015.6	3942.2	3913.0
42.5°	4207.8	4237.9	4303.3	4315.4	4271.1	4205.7	4255.0	4300.3	4276.2	4191.7	4180.6
45°	4478.3	4496.4	4576.9	4603.1	4541.7	4460.2	4521.6	4604.1	4586.0	4488.4	4467.3
47.5°	4781.1	4798.2	4881.7	4920.9	4843.5	4733.8	4844.5	4952.1	4941.1	4836.4	4826.4
50°	5139.2	5143.3	5258.9	5303.2	5225.7	5131.2	5229.8	5363.5	5319.3	5185.5	5183.5
52.5°	5531.5	5536.6	5682.4	5767.9	5724.7	5618.0	5734.7	5816.2	5703.5	5528.5	5515.4
55°	5871.5	5896.7	6095.9	6323.2	6382.5	6305.1	6340.3	6302.1	6024.4	5779.0	5740.8
57.5°	6010.4	6059.6	6362.4	6786.9	7173.2	7287.9	7016.3	6652.1	6152.2	5805.1	5767.9
60°	5671.4	5724.7	6194.4	7000.2	7986.0	8483.9	7720.4	6711.5	5861.5	5373.6	5315.3
62.5°	4541.7	4556.8	5247.9	6498.2	8459.8	9749.3	8017.2	6205.5	5015.5	4352.6	4329.5
64°	3268.2	3423.1	4155.4	5697.5	8252.5	10231.2	7846.2	5496.3	4074.0	3403.0	3294.4
65°	2444.4	2486.6	3349.7	4865.6	7887.4	10195.0	7514.2	4818.3	3373.8	2604.3	2483.6
67.5°	923.4	928.5	1236.3	2425.3	5615.0	8771.6	5734.7	2621.4	1421.4	1028.0	990.8
70°	383.3	390.3	453.7	815.8	2413.2	5632.1	2765.3	945.6	520.1	421.5	415.4
72.5°	280.7	284.7	303.8	362.1	742.4	2312.6	909.3	401.4	304.8	272.6	269.6
75°	220.3	222.3	236.4	266.6	346.0	640.8	378.2	275.6	232.4	209.2	207.2
77.5°	168.0	173.0	183.1	203.2	232.4	303.8	250.5	206.2	179.1	159.9	156.9
80°	115.7	121.7	140.8	148.9	155.9	197.2	171.0	155.9	139.8	116.7	109.6
82.5°	71.4	75.4	94.6	101.6	98.6	110.7	109.6	111.7	99.6	72.4	67.4
85°	37.2	39.2	51.3	53.3	49.3	45.3	56.3	65.4	61.4	41.2	40.2
87.5°	8.0	9.1	11.1	10.1	11.1	11.1	14.1	21.1	22.1	14.1	13.1
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)