

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: P529270

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529270
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-8)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4B-830-U-RW-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15674 lumens
Efficiency: N/A
Efficacy: 95.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

Input Watts (W): 164
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



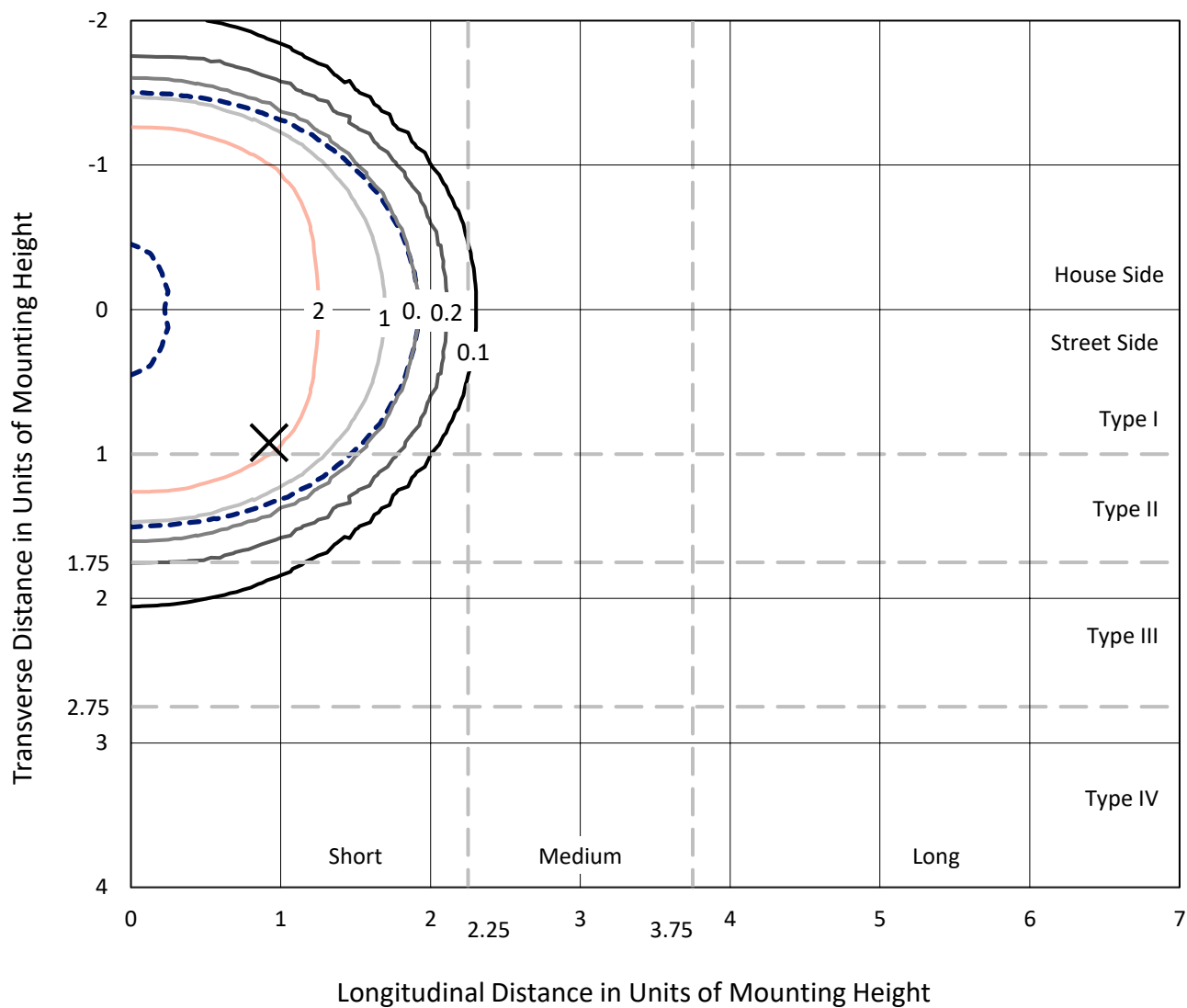
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

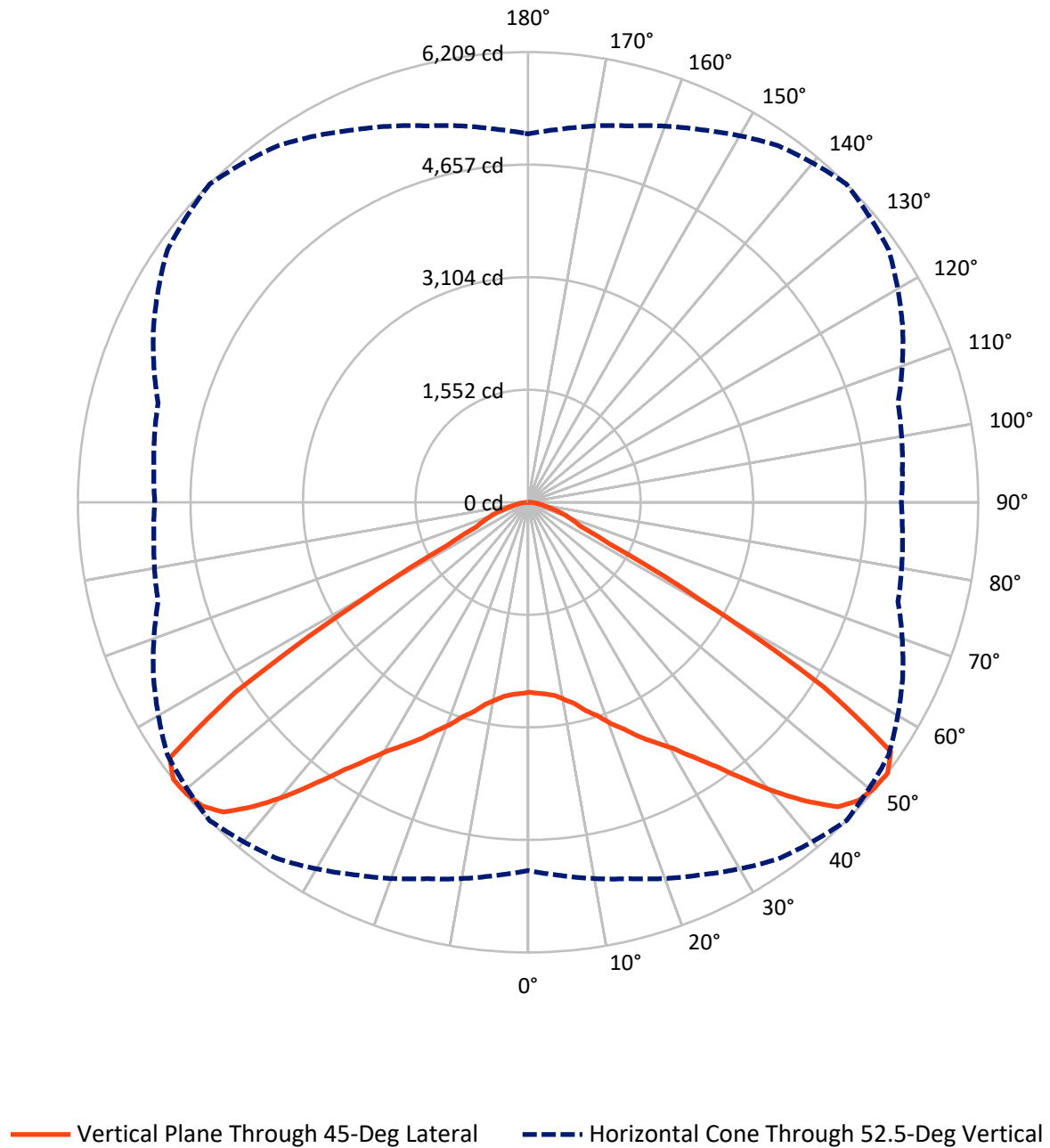


Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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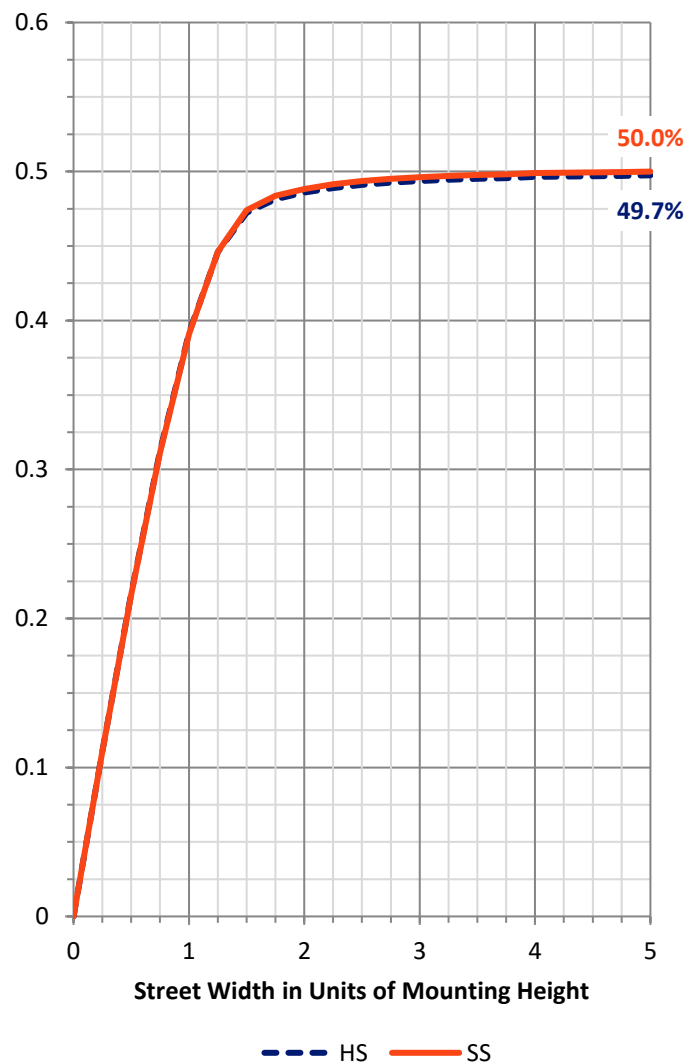
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7837.0	0.0	7837.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7837.0	0.0	7837.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	15674.0	0.0	15674.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.4	1.6
10°-20°	845.9	5.4
20°-30°	1610.4	10.3
30°-40°	2765.2	17.6
40°-50°	4250.1	27.1
50°-60°	4315.9	27.5
60°-70°	1202.8	7.7
70°-80°	354.8	2.3
80°-90°	71.5	0.5
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°	15674.0	100.0
0°-180°	15674.0	100.0

Coefficient of Utilization



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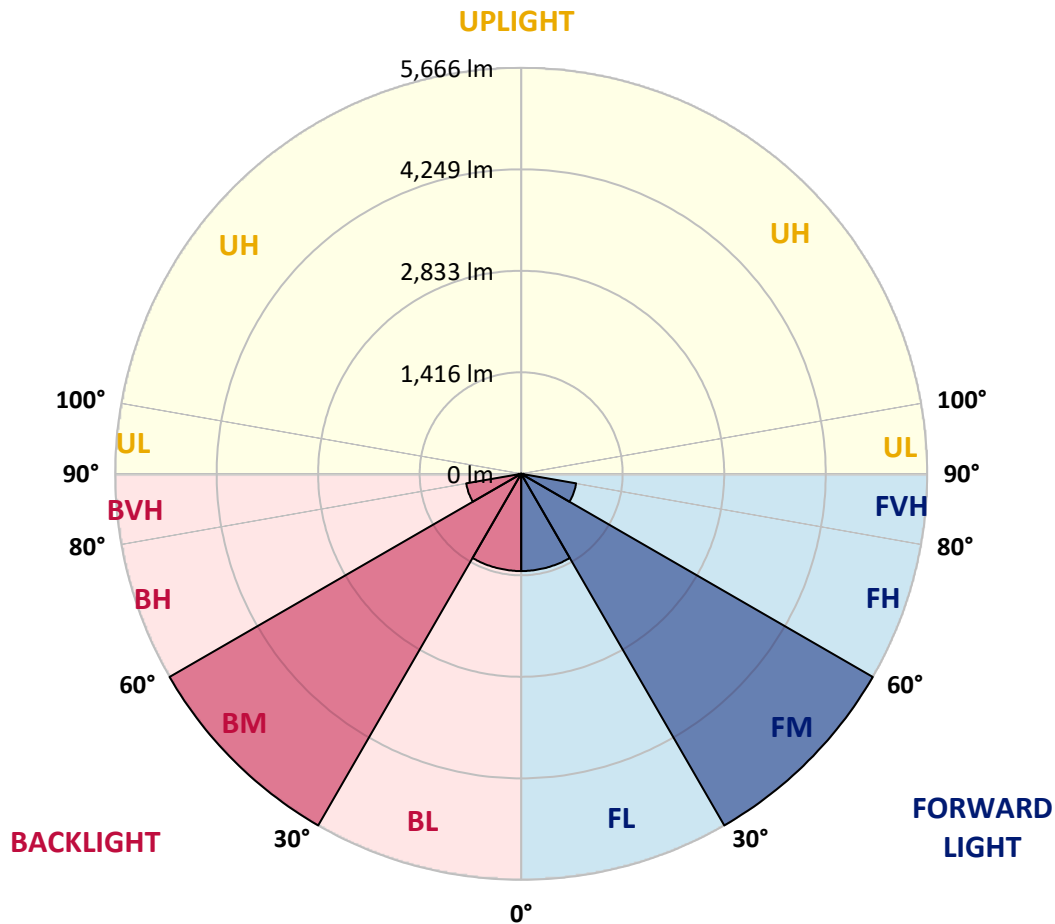
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1356.8	8.7			
FM	(30°-60°)	5665.6	36.1			
FH	(60°-80°)	778.8	5.0			G1/1800
FVH	(80°-90°)	35.7	0.2			G1/100
BL	(0°-30°)	1356.8	8.7	B3/2500		
BM	(30°-60°)	5665.6	36.1	B4/8500		
BH	(60°-80°)	778.8	5.0	B2/1000		G1/1800
BVH	(80°-90°)	35.7	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-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2620.1	2620.1	2620.1	2620.1	2620.1	2620.1	2620.1	2620.1	2620.1	2620.1	2620.1
2.5°	2626.0	2598.7	2608.4	2614.3	2639.6	2637.6	2631.8	2639.6	2647.3	2649.3	2645.4
5°	2624.0	2604.6	2612.3	2618.2	2643.5	2657.1	2653.2	2686.3	2709.6	2703.8	2732.9
7.5°	2608.4	2620.1	2610.4	2639.6	2661.0	2694.0	2729.0	2760.2	2789.3	2822.4	2828.2
10°	2643.5	2643.5	2661.0	2684.3	2740.7	2766.0	2816.6	2861.3	2917.7	2956.6	2941.1
12.5°	2680.4	2686.3	2686.3	2746.6	2793.2	2849.6	2896.3	2956.6	3036.4	3083.1	3106.4
15°	2717.4	2721.3	2740.7	2822.4	2892.4	2981.9	3024.7	3079.2	3123.9	3211.4	3213.4
17.5°	2750.4	2771.8	2830.2	2921.6	3009.1	3094.7	3162.8	3219.2	3258.1	3293.1	3285.4
20°	2874.9	2890.5	2950.8	3042.2	3172.5	3256.2	3279.5	3289.2	3314.5	3384.6	3363.2
22.5°	2995.5	3001.4	3057.8	3197.8	3289.2	3400.1	3425.4	3419.6	3429.3	3446.8	3477.9
25°	3120.0	3129.7	3207.6	3326.2	3454.6	3586.9	3608.3	3563.5	3549.9	3569.3	3571.3
27.5°	3279.5	3281.5	3380.7	3483.8	3629.6	3754.1	3787.2	3752.2	3688.0	3703.6	3728.9
30°	3481.8	3468.2	3567.4	3715.2	3868.9	3938.9	3995.3	3977.8	3907.8	3894.2	3872.8
32.5°	3715.2	3719.1	3808.6	3970.0	4071.2	4187.9	4248.2	4219.0	4174.3	4150.9	4164.6
35°	4044.0	4061.5	4121.8	4256.0	4419.4	4477.7	4573.0	4510.8	4394.1	4423.3	4448.6
37.5°	4314.3	4364.9	4477.7	4637.2	4734.5	4841.5	4876.5	4792.8	4707.3	4672.2	4755.9
40°	4728.7	4713.1	4837.6	4997.1	5141.0	5248.0	5203.3	5119.6	4907.6	4909.6	4932.9
42.5°	5084.6	5092.4	5187.7	5378.3	5574.8	5640.9	5498.9	5294.7	5059.3	5034.0	5084.6
45°	5384.2	5415.3	5469.8	5724.6	5917.1	5989.1	5726.5	5485.3	5170.2	5065.2	5148.8
47.5°	5491.2	5541.7	5660.4	5893.8	6084.4	6142.8	5932.7	5586.5	5273.3	5102.1	5146.9
50°	5506.7	5489.2	5683.7	5897.7	6065.0	6191.4	6006.6	5660.4	5248.0	5158.5	5144.9
52.5°	5080.7	5166.3	5374.4	5668.2	6006.6	6208.9	6072.8	5701.2	5283.0	5181.9	5148.8
55°	4112.0	4010.9	4390.2	4884.3	5506.7	6068.9	6049.4	5722.6	5304.4	5220.8	5176.0
57.5°	2295.3	2324.5	2538.4	3075.3	3878.6	4812.3	5378.3	5497.0	5294.7	5246.1	5269.4
60°	1062.1	1071.8	1163.2	1414.1	1912.1	2729.0	3474.0	4230.7	4578.9	4648.9	4648.9
62.5°	791.7	787.8	811.1	855.9	960.9	1254.6	1674.8	2275.8	2754.3	3088.9	3176.4
65°	715.8	713.9	725.5	741.1	748.9	789.7	883.1	1067.9	1223.5	1313.0	1297.4
67.5°	626.3	624.4	628.3	638.0	651.6	673.0	696.4	735.3	789.7	785.8	776.1
70°	505.7	505.7	511.6	519.4	534.9	560.2	587.4	614.7	661.4	671.1	669.1
72.5°	373.5	367.6	379.3	394.9	410.4	441.5	470.7	496.0	529.1	538.8	534.9
75°	237.3	241.2	249.0	266.5	293.7	315.1	346.2	367.6	389.0	396.8	398.8
77.5°	132.3	136.2	149.8	171.2	198.4	221.7	249.0	266.5	280.1	282.0	284.0
80°	79.8	81.7	95.3	114.8	138.1	163.4	184.8	202.3	214.0	208.1	206.2
82.5°	48.6	50.6	62.2	79.8	99.2	118.7	142.0	157.6	169.2	161.4	153.7
85°	25.3	27.2	37.0	48.6	64.2	73.9	73.9	66.1	64.2	60.3	58.4
87.5°	7.8	7.8	9.7	11.7	9.7	11.7	13.6	15.6	15.6	17.5	15.6
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)