

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: P455241

Luminaire Tested: **GALN-SA6B-830-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455241
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6B-830-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27664 lumens
Efficiency: N/A
Efficacy: 113.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 243
Input Voltage (V): NR
Input Current (A_{in}): 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



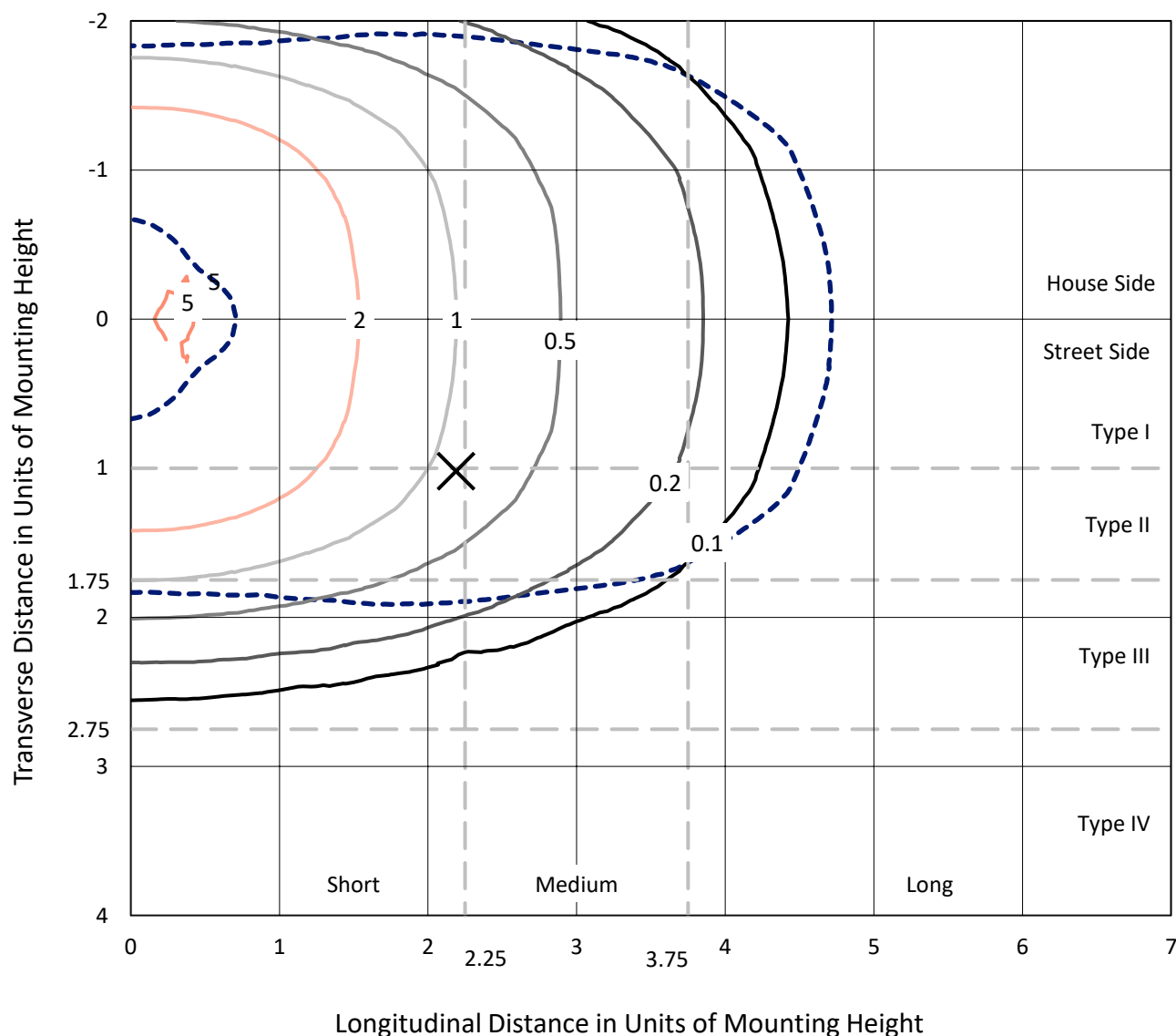
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



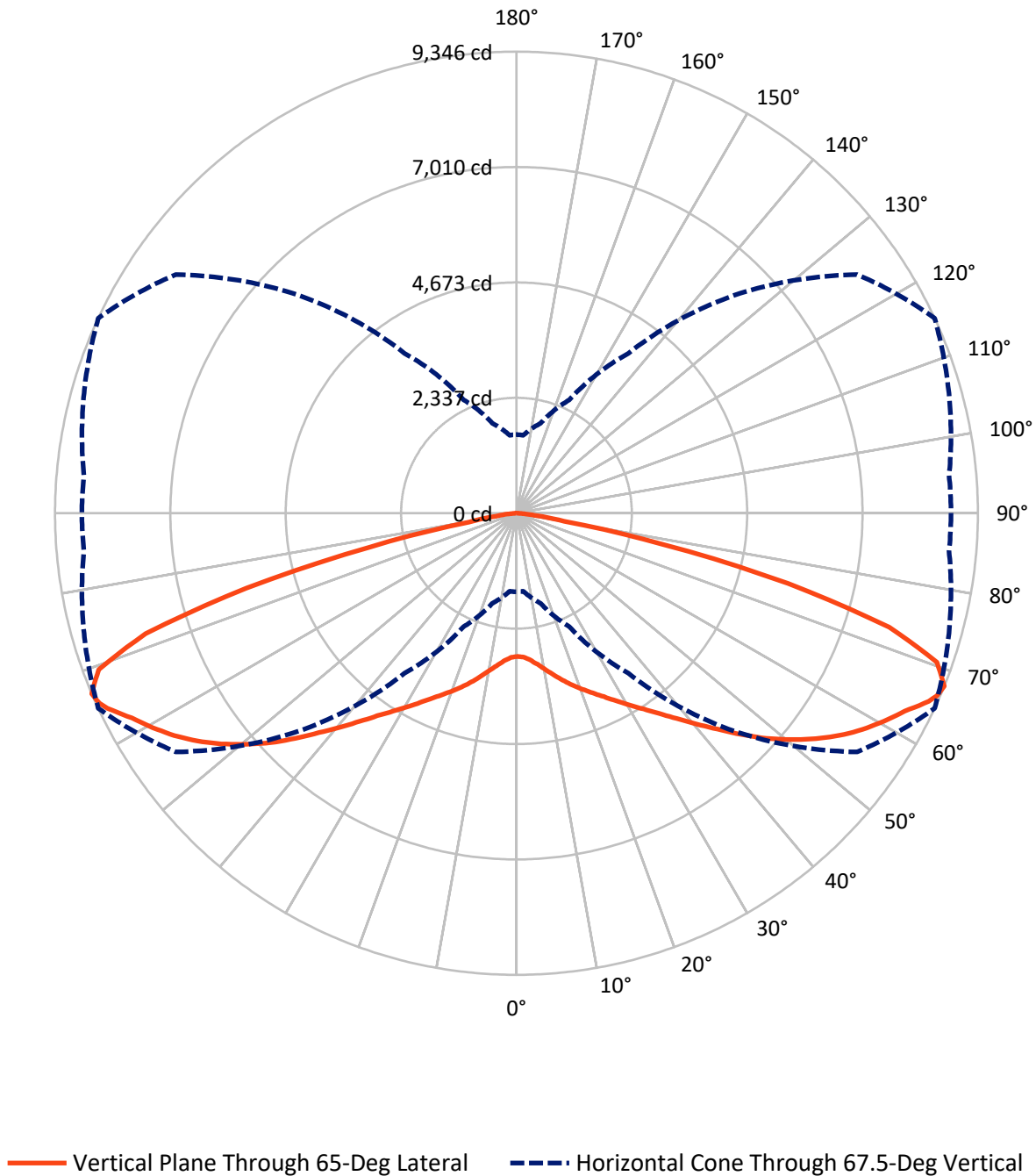
Based on 25 foot mounting height. Maximum calculated value = 5.3 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13832.0	0.0	13832.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13832.0	0.0	13832.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	27664.0	0.0	27664.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.8	1.0
10°-20°	956.5	3.5
20°-30°	1870.9	6.8
30°-40°	3182.2	11.5
40°-50°	5036.5	18.2
50°-60°	6678.2	24.1
60°-70°	6299.7	22.8
70°-80°	3114.2	11.3
80°-90°	240.0	0.9
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°	27664.0	100.0
0°-180°	27664.0	100.0

Coefficient of Utilization



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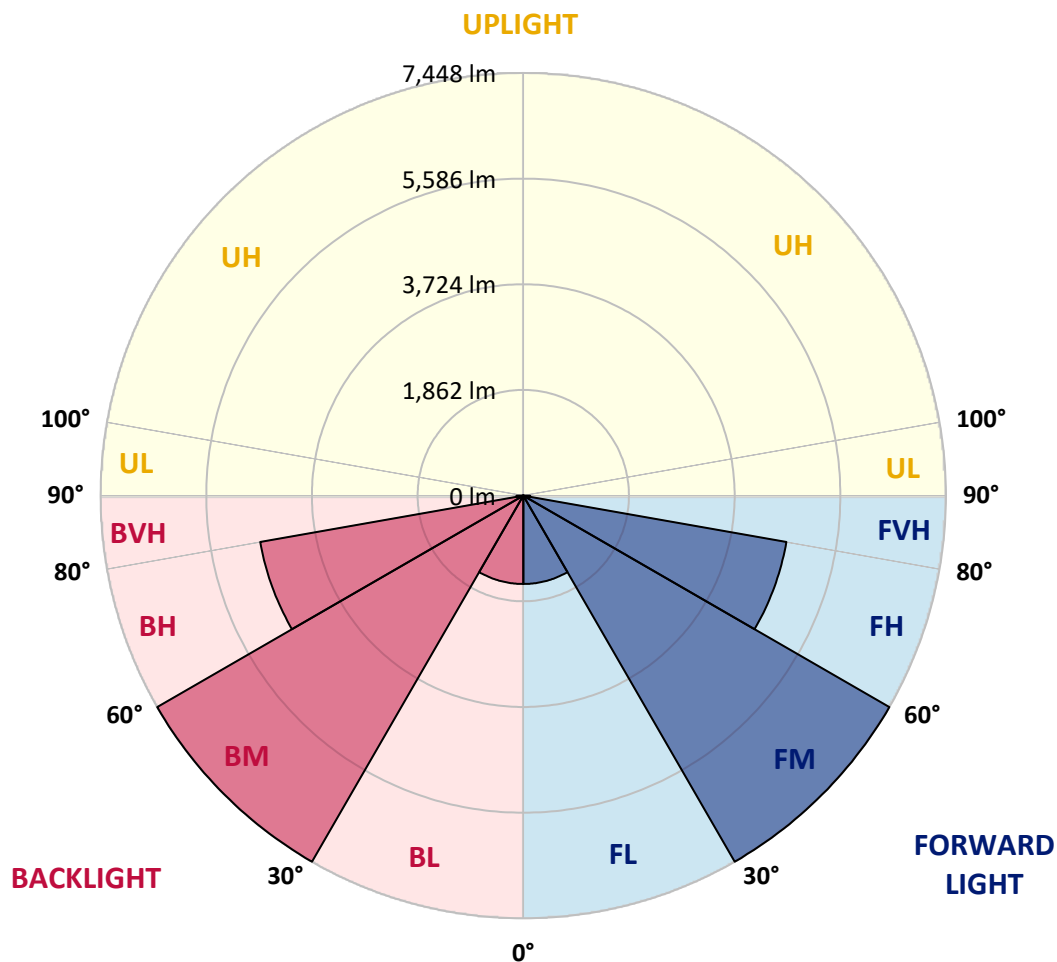
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1556.6	5.6			
FM	(30°-60°)	7448.5	26.9			
FH	(60°-80°)	4706.9	17.0			G2/5000
FVH	(80°-90°)	120.0	0.4			G2/225
BL	(0°-30°)	1556.6	5.6	B3/2500		
BM	(30°-60°)	7448.5	26.9	B4/8500		
BH	(60°-80°)	4706.9	17.0	B4/5000		G4/5000
BVH	(80°-90°)	120.0	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2897.6	2897.6	2897.6	2897.6	2897.6	2897.6	2897.6	2897.6	2897.6	2897.6	2897.6
2.5°	2882.7	2885.7	2888.7	2893.1	2899.0	2907.9	2913.9	2918.3	2930.2	2931.6	2930.2
5°	2872.4	2875.3	2882.7	2896.1	2915.3	2942.0	2962.8	2988.0	3007.2	3020.6	3017.6
7.5°	2870.9	2876.8	2888.7	2916.8	2953.9	2999.8	3047.3	3090.2	3127.3	3156.9	3152.5
10°	2894.6	2902.0	2921.3	2962.8	3020.6	3087.3	3154.0	3217.7	3271.1	3309.6	3322.9
12.5°	2934.6	2940.5	2976.1	3038.4	3121.4	3204.4	3279.9	3358.5	3432.6	3497.8	3497.8
15°	3004.3	3014.6	3059.1	3149.5	3251.8	3348.1	3425.2	3508.2	3588.2	3662.3	3684.6
17.5°	3100.6	3115.4	3182.1	3297.7	3428.2	3517.1	3589.7	3657.9	3727.6	3798.7	3809.1
20°	3232.5	3247.3	3336.3	3475.6	3629.7	3736.4	3785.4	3801.7	3835.7	3903.9	3912.8
22.5°	3411.9	3426.7	3526.0	3683.1	3855.0	3970.6	3991.4	3952.8	3943.9	3997.3	4003.2
25°	3614.9	3628.2	3742.4	3911.3	4089.2	4215.2	4209.2	4114.4	4061.0	4093.6	4102.5
27.5°	3843.2	3862.4	3978.0	4152.9	4345.6	4456.8	4439.0	4301.1	4187.0	4181.1	4184.0
30°	4135.1	4155.9	4265.6	4433.0	4622.8	4725.0	4688.0	4502.7	4326.3	4267.0	4267.0
32.5°	4443.4	4495.3	4606.5	4781.3	4929.6	5003.7	4947.3	4725.0	4490.8	4407.8	4403.4
35°	4845.1	4873.2	4982.9	5153.4	5264.5	5322.3	5214.1	4975.5	4705.8	4607.9	4594.6
37.5°	5237.8	5261.6	5389.0	5552.1	5686.9	5684.0	5537.2	5273.4	4972.5	4862.9	4854.0
40°	5639.5	5664.7	5809.9	5959.6	6094.5	6082.7	5904.8	5609.9	5289.7	5166.7	5190.4
42.5°	5987.8	6016.0	6180.5	6393.9	6515.4	6512.5	6306.5	5974.5	5641.0	5531.3	5552.1
45°	6305.0	6330.2	6521.4	6765.9	6943.8	6966.0	6740.7	6389.5	6047.1	5906.3	5912.2
47.5°	6528.8	6576.2	6776.3	7056.4	7298.0	7376.6	7155.7	6811.9	6417.6	6270.9	6279.8
50°	6699.2	6728.9	6946.7	7265.4	7570.7	7733.7	7555.9	7203.1	6788.1	6632.5	6653.3
52.5°	6720.0	6755.5	6992.7	7360.2	7751.5	7999.0	7911.6	7585.5	7166.1	7006.0	7050.5
55°	6551.0	6571.8	6854.8	7301.0	7822.7	8196.2	8218.4	7941.2	7526.2	7404.7	7434.4
57.5°	6069.3	6122.7	6481.3	7023.8	7724.9	8301.4	8448.1	8264.3	7890.8	7770.8	7818.2
60°	5279.3	5332.7	5692.9	6380.6	7355.8	8252.5	8637.8	8550.4	8221.4	8125.0	8150.2
62.5°	4136.6	4132.2	4578.3	5421.6	6622.1	8012.4	8778.6	8826.1	8547.4	8425.9	8464.4
65°	2681.2	2694.5	3125.8	4034.4	5515.0	7401.7	8809.8	9177.3	8867.6	8683.8	8711.9
66°	2156.5	2196.5	2562.6	3400.0	4950.3	7001.6	8716.4	9281.1	8965.4	8743.1	8756.4
67.5°	1591.8	1584.4	1885.3	2531.5	3952.8	6241.2	8424.4	9346.3	9076.6	8796.4	8802.4
70°	908.5	907.1	1013.8	1390.2	2324.0	4394.5	7100.9	9033.6	9301.8	8989.1	8972.8
72.5°	664.0	659.5	674.4	767.7	1133.8	2218.7	4898.4	7895.3	9186.2	8958.0	8912.0
75°	557.3	554.3	551.4	563.2	635.8	1004.9	2599.7	5679.5	7970.9	8408.1	8360.7
77.5°	455.0	455.0	456.5	453.5	456.5	529.1	1077.5	3044.3	4854.0	5418.7	5550.6
80°	355.7	354.2	379.4	369.0	345.3	339.4	477.2	979.7	1611.1	1602.2	1322.1
82.5°	262.3	244.6	289.0	281.6	254.9	216.4	278.6	418.0	538.0	349.8	259.4
85°	166.0	164.5	204.5	186.7	155.6	102.3	133.4	179.3	222.3	134.9	109.7
87.5°	29.6	28.2	65.2	47.4	47.4	29.6	37.1	48.9	72.6	50.4	37.1
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)