

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: P454324

Luminaire Tested: **GALN-SA5B-830-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454324
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5B-830-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22604 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 204
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

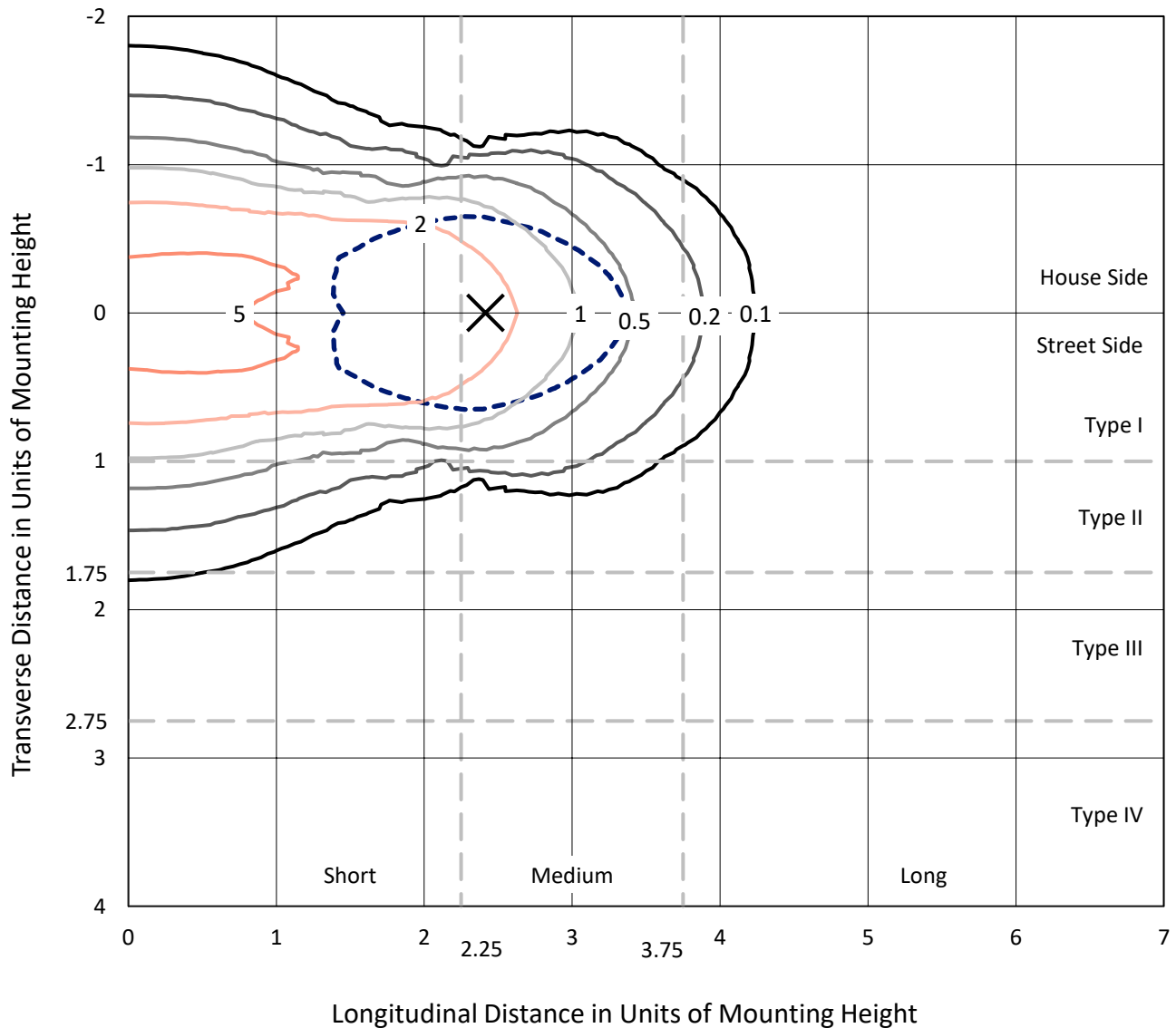


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

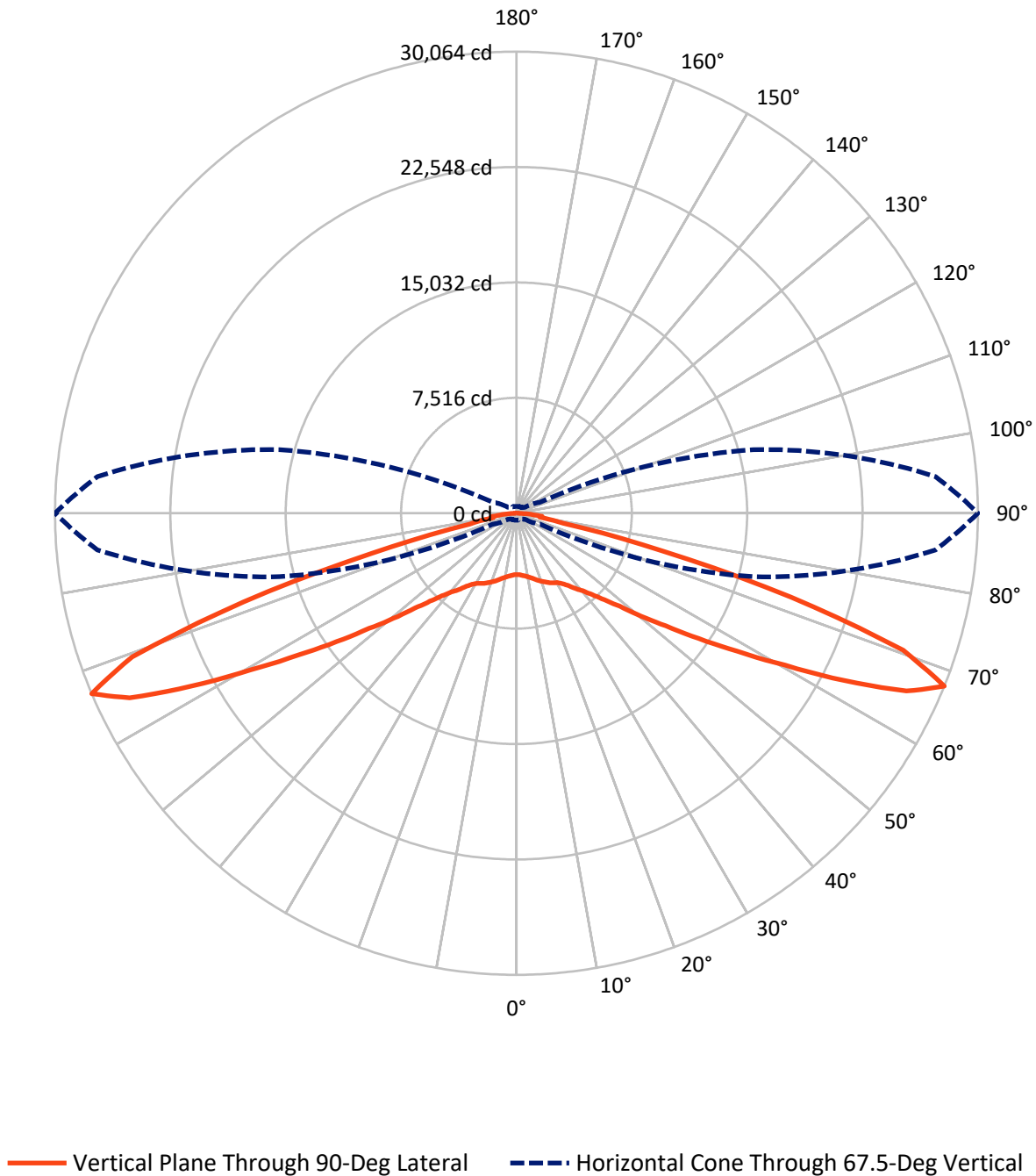


Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
Type I - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11302.0	0.0	11302.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11302.0	0.0	11302.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	22604.0	0.0	22604.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	399.0	1.8
10°-20°	1276.5	5.6
20°-30°	2136.5	9.5
30°-40°	2894.3	12.8
40°-50°	3666.2	16.2
50°-60°	4580.0	20.3
60°-70°	5383.5	23.8
70°-80°	2059.5	9.1
80°-90°	208.6	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°	22604.0	100.0
0°-180°	22604.0	100.0

Coefficient of Utilization



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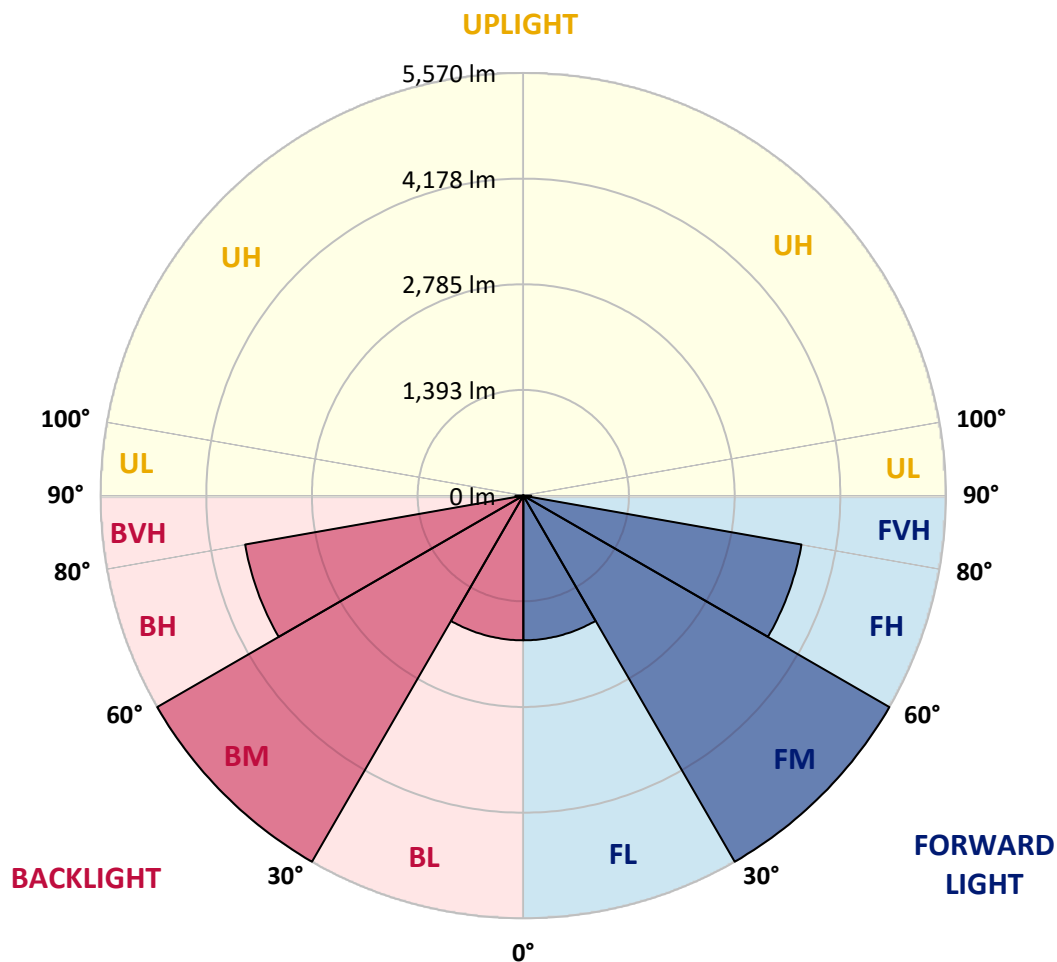
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1905.9	8.4			
FM	(30°-60°)	5570.2	24.6			
FH	(60°-80°)	3721.5	16.5			G2/5000
FVH	(80°-90°)	104.3	0.5			G2/225
BL	(0°-30°)	1905.9	8.4	B3/2500		
BM	(30°-60°)	5570.2	24.6	B4/8500		
BH	(60°-80°)	3721.5	16.5	B4/5000		G4/5000
BVH	(80°-90°)	104.3	0.5			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 I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4001.6	4001.6	4001.6	4001.6	4001.6	4001.6	4001.6	4001.6	4001.6	4001.6	4001.6
2.5°	4052.9	4050.4	4051.7	4050.4	4054.2	4051.7	4036.7	4024.1	4014.1	4015.4	4011.6
5°	4139.3	4140.5	4141.8	4135.5	4144.3	4139.3	4115.5	4095.5	4075.5	4068.0	4065.4
7.5°	4210.6	4216.9	4220.7	4226.9	4241.9	4241.9	4229.4	4200.6	4156.8	4131.8	4130.5
10°	4282.0	4287.0	4298.3	4318.3	4343.3	4367.1	4362.1	4323.3	4267.0	4224.4	4214.4
12.5°	4307.0	4313.3	4350.8	4408.4	4464.7	4511.0	4511.0	4479.8	4407.2	4342.1	4323.3
15°	4219.4	4230.7	4298.3	4420.9	4568.6	4670.0	4692.5	4648.7	4571.1	4471.0	4448.5
17.5°	4045.4	4073.0	4171.8	4353.3	4598.7	4808.9	4874.0	4852.8	4752.6	4624.9	4598.7
20°	3858.9	3889.0	3994.1	4234.4	4573.6	4890.3	5079.3	5084.3	4960.4	4775.1	4736.3
22.5°	3653.6	3676.2	3811.4	4093.0	4498.5	4909.1	5255.8	5342.2	5174.4	4925.3	4870.3
25°	3423.3	3448.4	3589.8	3894.0	4357.1	4887.8	5417.3	5607.5	5398.5	5085.6	5015.5
27.5°	3203.0	3213.1	3364.5	3673.7	4170.6	4832.7	5536.2	5851.6	5646.3	5218.2	5129.4
30°	2991.5	3015.3	3149.2	3454.6	3956.6	4725.1	5638.8	6129.5	5912.9	5357.2	5243.3
32.5°	2767.5	2796.2	2941.4	3250.6	3742.5	4563.6	5701.4	6433.6	6284.7	5582.5	5461.1
35°	2552.2	2570.9	2717.4	3017.8	3533.5	4375.9	5712.7	6776.6	6764.1	5924.2	5762.7
37.5°	2331.9	2359.4	2507.1	2795.0	3311.9	4176.8	5656.3	7140.8	7342.3	6398.6	6224.6
40°	2120.3	2144.1	2289.3	2579.7	3060.4	3934.0	5522.4	7473.8	8017.0	6886.7	6640.1
42.5°	1890.0	1896.3	2055.3	2350.6	2813.8	3652.4	5329.6	7770.4	8769.2	7541.4	7234.7
45°	1628.4	1644.7	1792.4	2082.8	2530.9	3337.0	5068.0	8015.7	9723.0	8448.8	8030.8
47.5°	1366.8	1380.6	1515.8	1802.4	2221.7	2975.2	4665.0	8231.0	10701.8	9601.6	9053.4
50°	1111.5	1119.0	1229.1	1483.2	1873.8	2594.7	4165.6	8299.9	11808.3	11233.8	10534.1
52.5°	878.7	889.9	973.8	1172.8	1502.0	2145.4	3626.1	8129.6	13100.1	13168.9	12182.6
55°	712.2	716.0	778.5	925.0	1174.1	1674.7	2975.2	7655.3	14489.4	15648.5	14390.5
57.5°	613.3	615.8	650.9	732.2	903.7	1262.9	2308.1	6757.8	15737.3	18553.6	16936.4
60°	557.0	558.2	578.3	625.8	716.0	968.8	1653.5	5491.1	16969.0	21786.7	20100.7
62.5°	521.9	521.9	535.7	562.0	605.8	743.5	1197.9	3961.6	17812.6	25067.3	24000.9
65°	488.2	488.2	498.2	516.9	540.7	608.3	884.9	2583.5	17791.3	27456.8	27923.7
67.5°	449.4	449.4	456.9	475.6	489.4	523.2	683.4	1692.3	15981.4	27404.2	30064.0
70°	403.0	403.0	413.1	429.3	440.6	461.9	539.5	1157.8	11740.7	23398.9	26737.1
72.5°	356.7	358.0	364.2	380.5	389.3	401.8	448.1	811.1	7202.2	15932.6	18695.0
75°	305.4	307.9	314.2	330.4	338.0	343.0	378.0	578.3	3643.6	8590.3	9780.6
77.5°	246.6	251.6	255.3	272.9	277.9	285.4	311.7	418.1	1599.6	3086.6	3114.2
80°	180.2	186.5	197.8	214.0	217.8	222.8	237.8	296.6	724.7	1409.4	1530.8
82.5°	132.7	141.4	127.7	148.9	148.9	142.7	167.7	199.0	332.9	1395.6	1669.7
85°	72.6	73.8	66.3	76.4	81.4	80.1	88.9	97.6	161.5	931.2	960.0
87.5°	17.5	18.8	20.0	23.8	28.8	28.8	31.3	27.5	52.6	301.7	172.7
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)