

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: P459011

Luminaire Tested: **GALN-SA5B-735-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459011
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-SA5B-735-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27388 lumens
Efficiency: N/A
Efficacy: 134.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

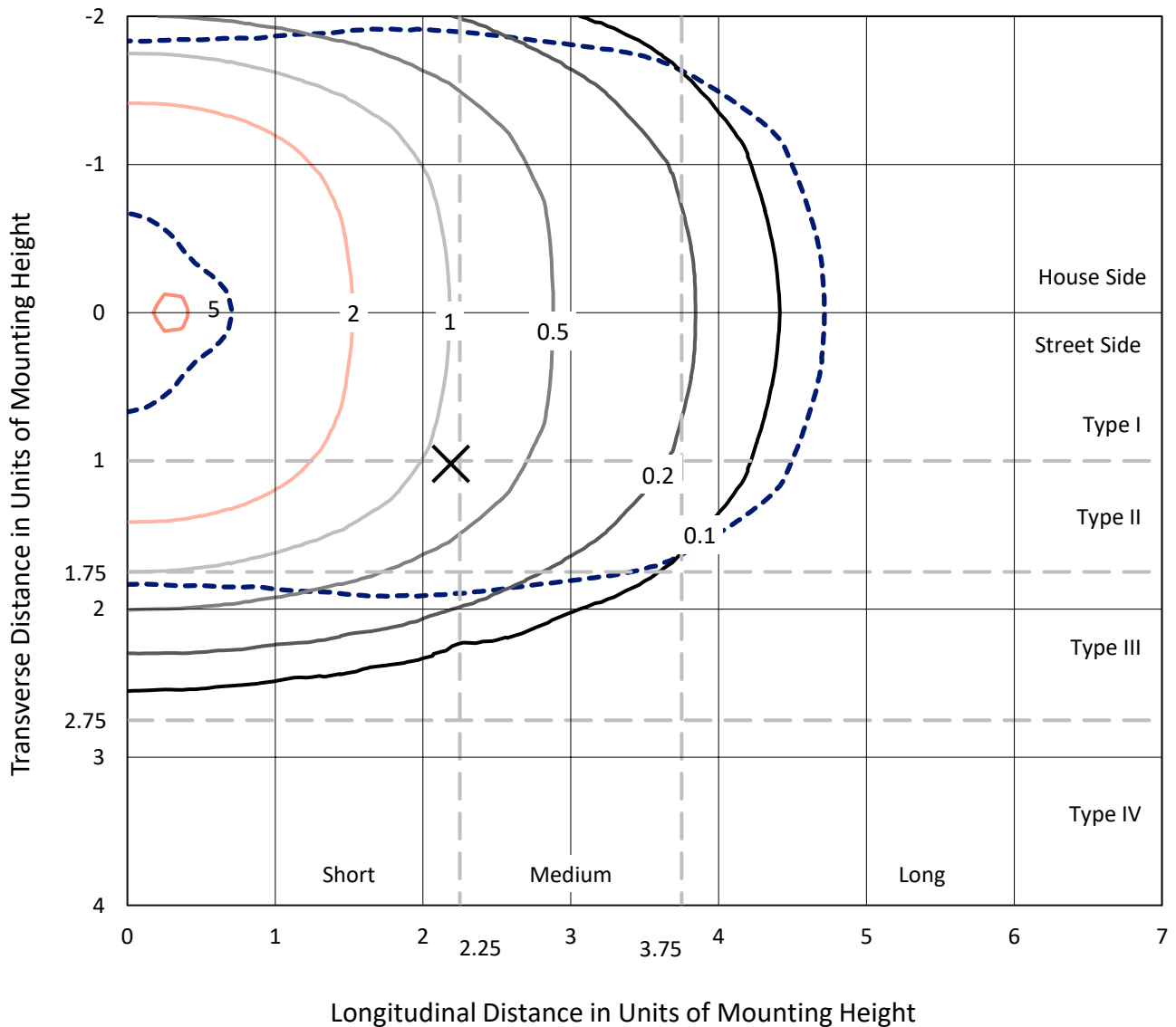
Input Watts (W): 204
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

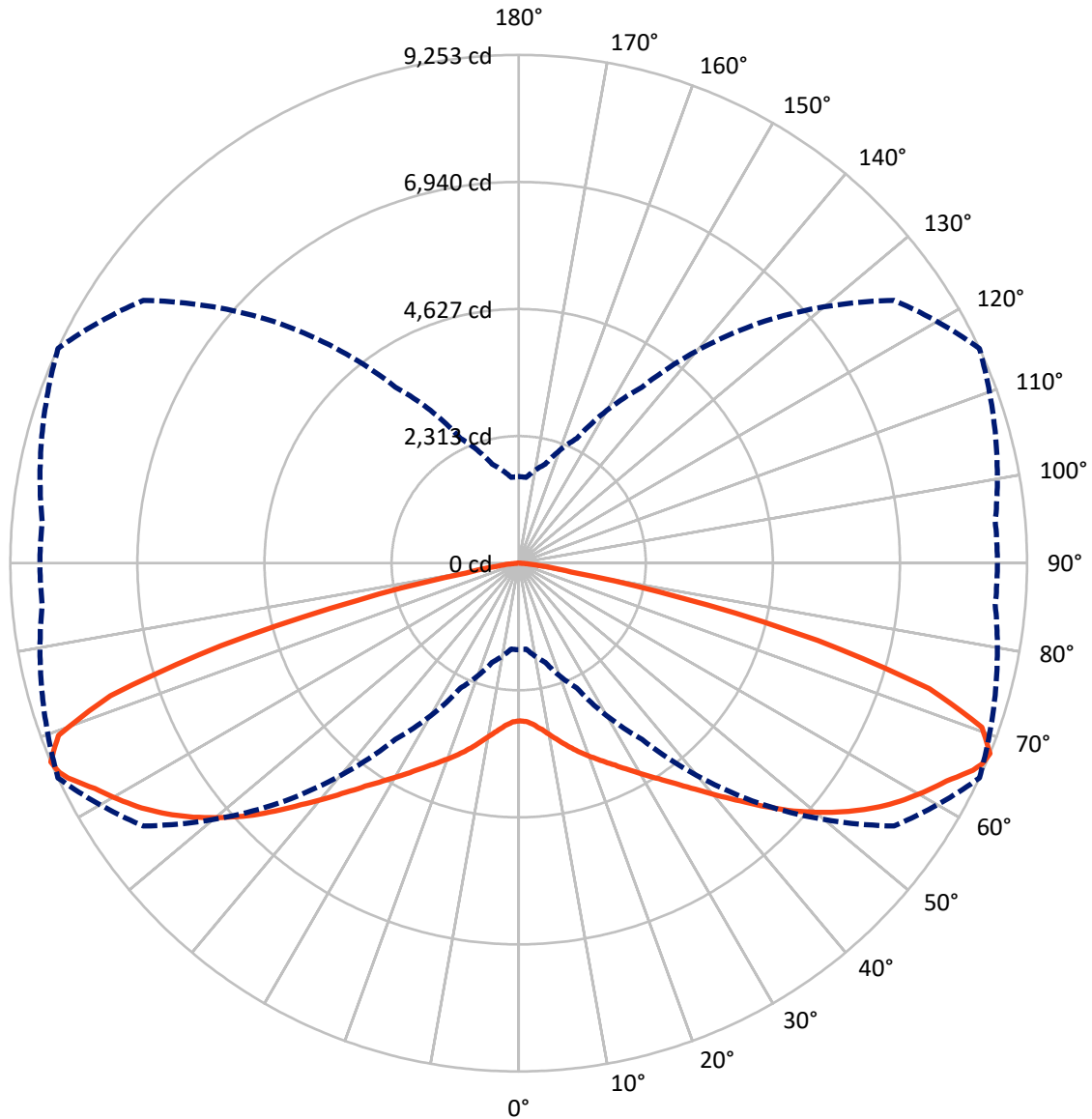
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13694.0	0.0	13694.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13694.0	0.0	13694.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	27388.0	0.0	27388.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	282.9	1.0
10°-20°	946.9	3.5
20°-30°	1852.3	6.8
30°-40°	3150.5	11.5
40°-50°	4986.2	18.2
50°-60°	6611.6	24.1
60°-70°	6236.8	22.8
70°-80°	3083.2	11.3
80°-90°	237.6	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°	27388.0	100.0
0°-180°	27388.0	100.0



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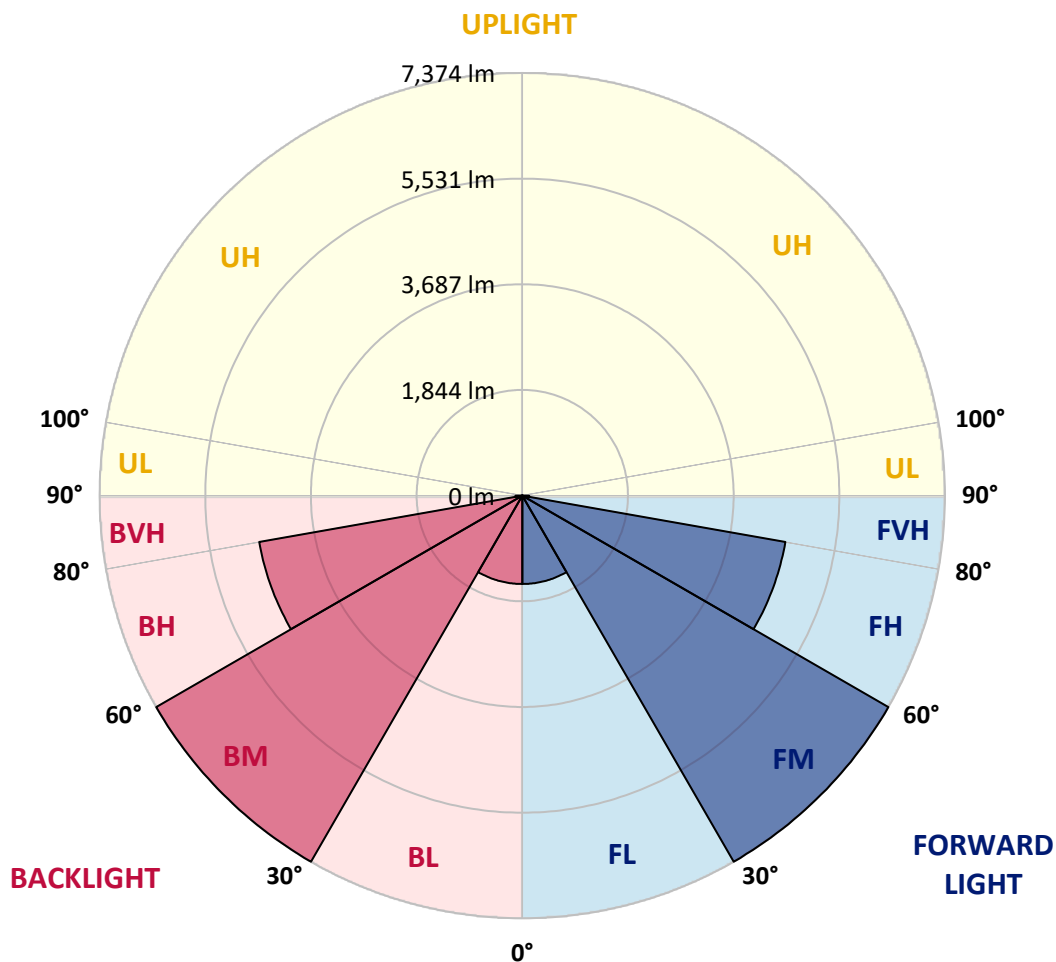
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1541.1	5.6			
FM	(30°-60°)	7374.2	26.9			
FH	(60°-80°)	4660.0	17.0			G2/5000
FVH	(80°-90°)	118.8	0.4			G2/225
BL	(0°-30°)	1541.1	5.6	B3/2500		
BM	(30°-60°)	7374.2	26.9	B4/8500		
BH	(60°-80°)	4660.0	17.0	B4/5000		G4/5000
BVH	(80°-90°)	118.8	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°	2868.7	2868.7	2868.7	2868.7	2868.7	2868.7	2868.7	2868.7	2868.7	2868.7	2868.7
2.5°	2854.0	2856.9	2859.8	2864.2	2870.1	2878.9	2884.8	2889.2	2900.9	2902.4	2900.9
5°	2843.7	2846.6	2854.0	2867.2	2886.3	2912.7	2933.2	2958.2	2977.2	2990.4	2987.5
7.5°	2842.2	2848.1	2859.8	2887.7	2924.4	2969.9	3016.9	3059.4	3096.1	3125.4	3121.0
10°	2865.7	2873.1	2892.1	2933.2	2990.4	3056.5	3122.5	3185.6	3238.4	3276.6	3289.8
12.5°	2905.3	2911.2	2946.4	3008.0	3090.2	3172.4	3247.2	3325.0	3398.4	3462.9	3462.9
15°	2974.3	2984.6	3028.6	3118.1	3219.3	3314.7	3391.0	3473.2	3552.4	3625.8	3647.8
17.5°	3069.7	3084.4	3150.4	3264.8	3394.0	3482.0	3553.9	3621.4	3690.4	3760.8	3771.1
20°	3200.3	3214.9	3303.0	3440.9	3593.5	3699.2	3747.6	3763.7	3797.5	3865.0	3873.8
22.5°	3377.8	3392.5	3490.8	3646.3	3816.6	3931.0	3951.5	3913.4	3904.6	3957.4	3963.3
25°	3578.8	3592.1	3705.0	3872.3	4048.4	4173.1	4167.2	4073.3	4020.5	4052.8	4061.6
27.5°	3804.8	3823.9	3938.3	4111.5	4302.2	4412.3	4394.7	4258.2	4145.2	4139.4	4142.3
30°	4093.9	4114.4	4223.0	4388.8	4576.6	4677.9	4641.2	4457.8	4283.2	4224.5	4224.5
32.5°	4399.1	4450.4	4560.5	4733.6	4880.4	4953.7	4898.0	4677.9	4446.0	4363.9	4359.5
35°	4796.7	4824.6	4933.2	5101.9	5212.0	5269.2	5162.1	4925.9	4658.8	4562.0	4548.8
37.5°	5185.6	5209.1	5335.3	5496.7	5630.2	5627.3	5482.0	5220.8	4922.9	4814.3	4805.5
40°	5583.2	5608.2	5752.0	5900.2	6033.7	6022.0	5845.9	5553.9	5236.9	5115.2	5138.6
42.5°	5928.1	5955.9	6118.8	6330.1	6450.4	6447.5	6243.5	5914.9	5584.7	5476.1	5496.7
45°	6242.1	6267.0	6456.3	6698.4	6874.5	6896.5	6673.5	6325.7	5986.8	5847.4	5853.2
47.5°	6463.6	6510.6	6708.7	6986.0	7225.2	7303.0	7084.3	6743.9	6353.6	6208.3	6217.1
50°	6632.4	6661.7	6877.4	7192.9	7495.2	7656.6	7480.5	7131.3	6720.4	6566.4	6586.9
52.5°	6652.9	6688.1	6922.9	7286.8	7674.2	7919.2	7832.7	7509.9	7094.6	6936.1	6980.1
55°	6485.6	6506.2	6786.5	7228.1	7744.6	8114.4	8136.4	7862.0	7451.2	7330.8	7360.2
57.5°	6008.8	6061.6	6416.7	6953.7	7647.8	8218.6	8363.8	8181.9	7812.1	7693.3	7740.2
60°	5226.7	5279.5	5636.1	6316.9	7282.4	8170.2	8551.7	8465.1	8139.3	8044.0	8068.9
62.5°	4095.3	4090.9	4532.6	5367.5	6556.1	7932.4	8691.1	8738.0	8462.2	8341.8	8380.0
65°	2654.4	2667.6	3094.6	3994.1	5460.0	7327.9	8721.9	9085.8	8779.1	8597.2	8625.0
66°	2135.0	2174.6	2537.0	3366.1	4900.9	6931.7	8629.4	9188.5	8875.9	8655.8	8669.0
67.5°	1575.9	1568.6	1866.5	2506.2	3913.4	6179.0	8340.4	9253.1	8986.0	8708.7	8714.5
70°	899.5	898.0	1003.7	1376.4	2300.8	4350.7	7030.0	8943.4	9209.0	8899.4	8883.3
72.5°	657.4	653.0	667.6	760.1	1122.5	2196.6	4849.6	7816.5	9094.6	8868.6	8823.1
75°	551.7	548.8	545.9	557.6	629.5	994.9	2573.7	5622.9	7891.4	8324.2	8277.3
77.5°	450.5	450.5	451.9	449.0	451.9	523.8	1066.8	3013.9	4805.5	5364.6	5495.2
80°	352.2	350.7	375.6	365.4	341.9	336.0	472.5	969.9	1595.0	1586.2	1308.9
82.5°	259.7	242.1	286.1	278.8	252.4	214.2	275.9	413.8	532.6	346.3	256.8
85°	164.3	162.9	202.5	184.9	154.1	101.2	132.1	177.5	220.1	133.5	108.6
87.5°	29.3	27.9	64.6	47.0	47.0	29.3	36.7	48.4	71.9	49.9	36.7
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)