

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: P458895

Luminaire Tested: **GALN-SA4B-735-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458895
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-SA4B-735-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 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: 21635 lumens
Efficiency: N/A
Efficacy: 131.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 164
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

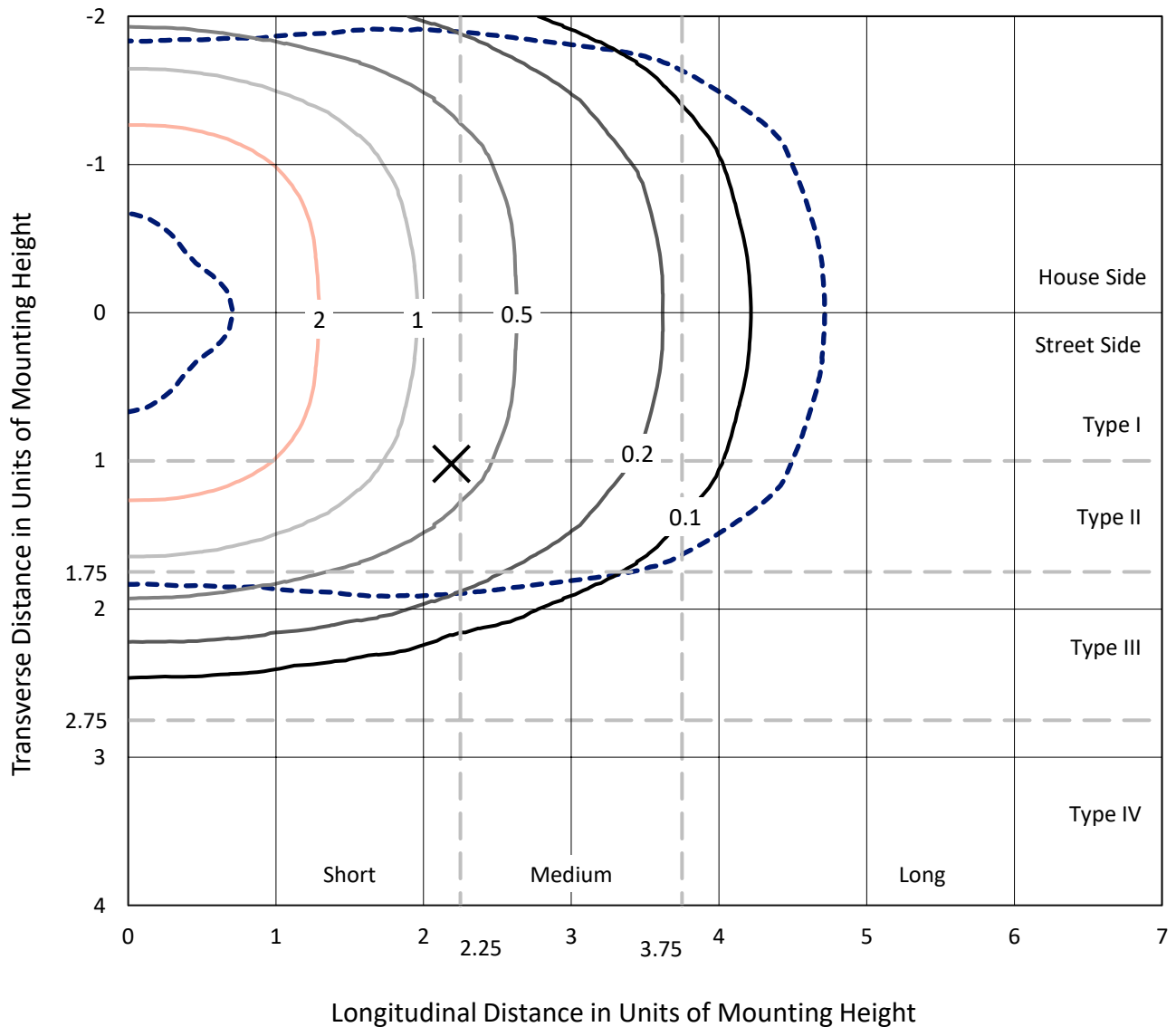




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Iso-Footcandle Lines of Horizontal Illumination

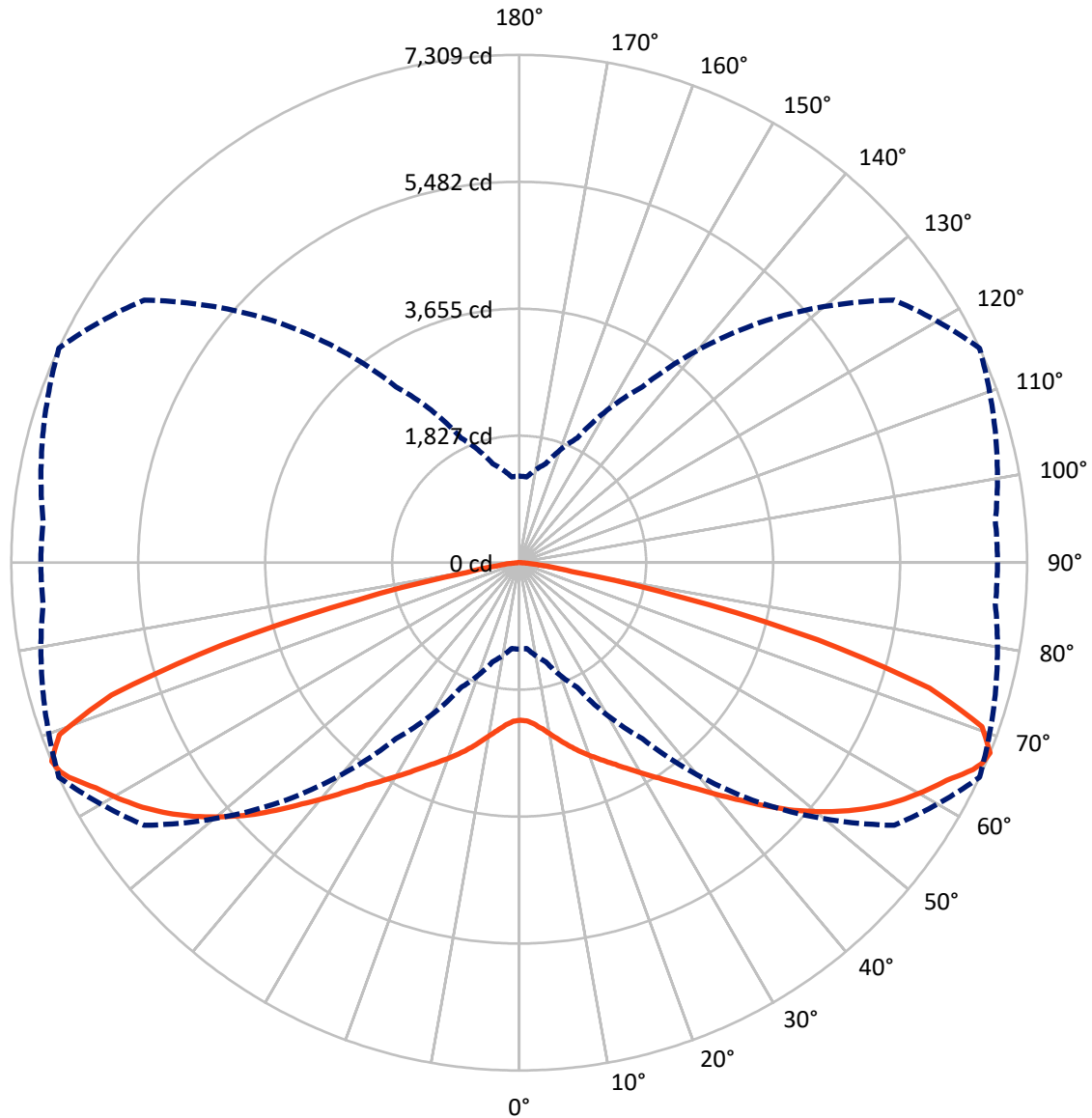
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 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	10817.5	0.0	10817.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10817.5	0.0	10817.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	21635.0	0.0	21635.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.5	1.0
10°-20°	748.0	3.5
20°-30°	1463.2	6.8
30°-40°	2488.7	11.5
40°-50°	3938.8	18.2
50°-60°	5222.8	24.1
60°-70°	4926.7	22.8
70°-80°	2435.5	11.3
80°-90°	187.7	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°	21635.0	100.0
0°-180°	21635.0	100.0

Coefficient of Utilization



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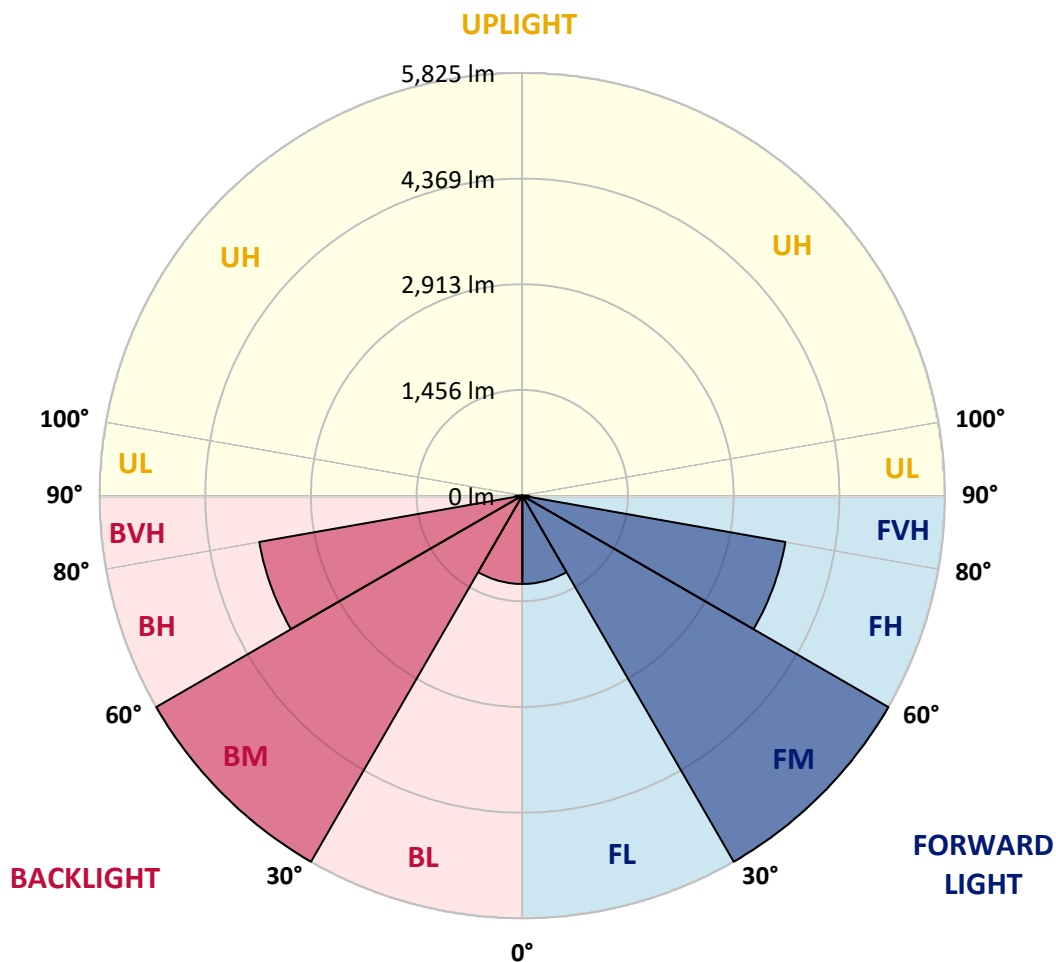
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1217.4	5.6			
FM	(30°-60°)	5825.2	26.9			
FH	(60°-80°)	3681.1	17.0			G2/5000
FVH	(80°-90°)	93.9	0.4			G1/100
BL	(0°-30°)	1217.4	5.6	B3/2500		
BM	(30°-60°)	5825.2	26.9	B4/8500		
BH	(60°-80°)	3681.1	17.0	B4/5000		G4/5000
BVH	(80°-90°)	93.9	0.4			G1/100
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°	2266.1	2266.1	2266.1	2266.1	2266.1	2266.1	2266.1	2266.1	2266.1	2266.1	2266.1
2.5°	2254.5	2256.8	2259.1	2262.6	2267.2	2274.2	2278.8	2282.3	2291.6	2292.7	2291.6
5°	2246.4	2248.7	2254.5	2264.9	2280.0	2300.8	2317.1	2336.8	2351.9	2362.3	2360.0
7.5°	2245.2	2249.8	2259.1	2281.1	2310.1	2346.1	2383.1	2416.8	2445.7	2468.9	2465.4
10°	2263.8	2269.6	2284.6	2317.1	2362.3	2414.4	2466.6	2516.4	2558.2	2588.3	2598.7
12.5°	2295.1	2299.7	2327.5	2376.2	2441.1	2506.0	2565.1	2626.6	2684.5	2735.5	2735.5
15°	2349.5	2357.6	2392.4	2463.1	2543.1	2618.4	2678.7	2743.6	2806.2	2864.2	2881.6
17.5°	2424.9	2436.5	2488.6	2579.0	2681.0	2750.6	2807.4	2860.7	2915.2	2970.8	2978.9
20°	2528.0	2539.6	2609.2	2718.1	2838.7	2922.1	2960.4	2973.1	2999.8	3053.1	3060.1
22.5°	2668.3	2679.9	2757.5	2880.4	3014.9	3105.3	3121.5	3091.4	3084.4	3126.1	3130.8
25°	2827.1	2837.5	2926.8	3058.9	3198.0	3296.5	3291.9	3217.7	3176.0	3201.5	3208.4
27.5°	3005.6	3020.7	3111.1	3247.8	3398.5	3485.5	3471.6	3363.8	3274.5	3269.9	3272.2
30°	3233.9	3250.2	3335.9	3466.9	3615.3	3695.3	3666.3	3521.4	3383.5	3337.1	3337.1
32.5°	3475.0	3515.6	3602.5	3739.3	3855.2	3913.2	3869.1	3695.3	3512.1	3447.2	3443.7
35°	3789.2	3811.2	3897.0	4030.3	4117.2	4162.4	4077.8	3891.2	3680.2	3603.7	3593.3
37.5°	4096.3	4114.9	4214.6	4342.1	4447.5	4445.2	4330.5	4124.1	3888.8	3803.1	3796.1
40°	4410.4	4430.1	4543.7	4660.8	4766.3	4757.0	4617.9	4387.3	4136.9	4040.7	4059.2
42.5°	4682.8	4704.9	4833.5	5000.4	5095.5	5093.2	4932.0	4672.4	4411.6	4325.8	4342.1
45°	4930.9	4950.6	5100.1	5291.4	5430.5	5447.9	5271.7	4997.0	4729.2	4619.1	4623.7
47.5°	5105.9	5143.0	5299.5	5518.6	5707.5	5768.9	5596.2	5327.3	5019.0	4904.2	4911.2
50°	5239.2	5262.4	5432.8	5682.0	5920.8	6048.3	5909.2	5633.3	5308.8	5187.1	5203.3
52.5°	5255.4	5283.3	5468.7	5756.2	6062.2	6255.8	6187.4	5932.4	5604.3	5479.2	5513.9
55°	5123.3	5139.5	5360.9	5709.8	6117.8	6409.9	6427.3	6210.6	5886.0	5791.0	5814.1
57.5°	4746.6	4788.3	5068.8	5493.1	6041.3	6492.2	6607.0	6463.2	6171.1	6077.3	6114.3
60°	4128.8	4170.5	4452.2	4990.0	5752.7	6454.0	6755.3	6687.0	6429.6	6354.3	6374.0
62.5°	3235.1	3231.6	3580.5	4240.1	5178.9	6266.2	6865.5	6902.5	6684.6	6589.6	6619.7
65°	2096.8	2107.3	2444.6	3155.1	4313.1	5788.6	6889.8	7177.3	6935.0	6791.3	6813.3
66°	1686.5	1717.8	2004.1	2659.0	3871.5	5475.7	6816.8	7258.4	7011.5	6837.6	6848.1
67.5°	1244.9	1239.1	1474.4	1979.8	3091.4	4881.0	6588.4	7309.4	7098.4	6879.4	6884.0
70°	710.5	709.4	792.8	1087.3	1817.5	3436.8	5553.3	7064.8	7274.6	7030.0	7017.3
72.5°	519.3	515.8	527.4	600.4	886.7	1735.2	3830.9	6174.6	7184.2	7005.7	6969.8
75°	435.8	433.5	431.2	440.5	497.3	785.9	2033.1	4441.7	6233.7	6575.7	6538.6
77.5°	355.8	355.8	357.0	354.7	357.0	413.8	842.7	2380.8	3796.1	4237.7	4340.9
80°	278.2	277.0	296.7	288.6	270.1	265.4	373.2	766.2	1260.0	1253.0	1033.9
82.5°	205.2	191.3	226.0	220.2	199.4	169.2	217.9	326.9	420.8	273.6	202.8
85°	129.8	128.7	160.0	146.0	121.7	80.0	104.3	140.3	173.9	105.5	85.8
87.5°	23.2	22.0	51.0	37.1	37.1	23.2	29.0	38.3	56.8	39.4	29.0
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)