

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: P453222

Luminaire Tested: **GALN-SA4B-727-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453222
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-SA4B-727-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18792 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

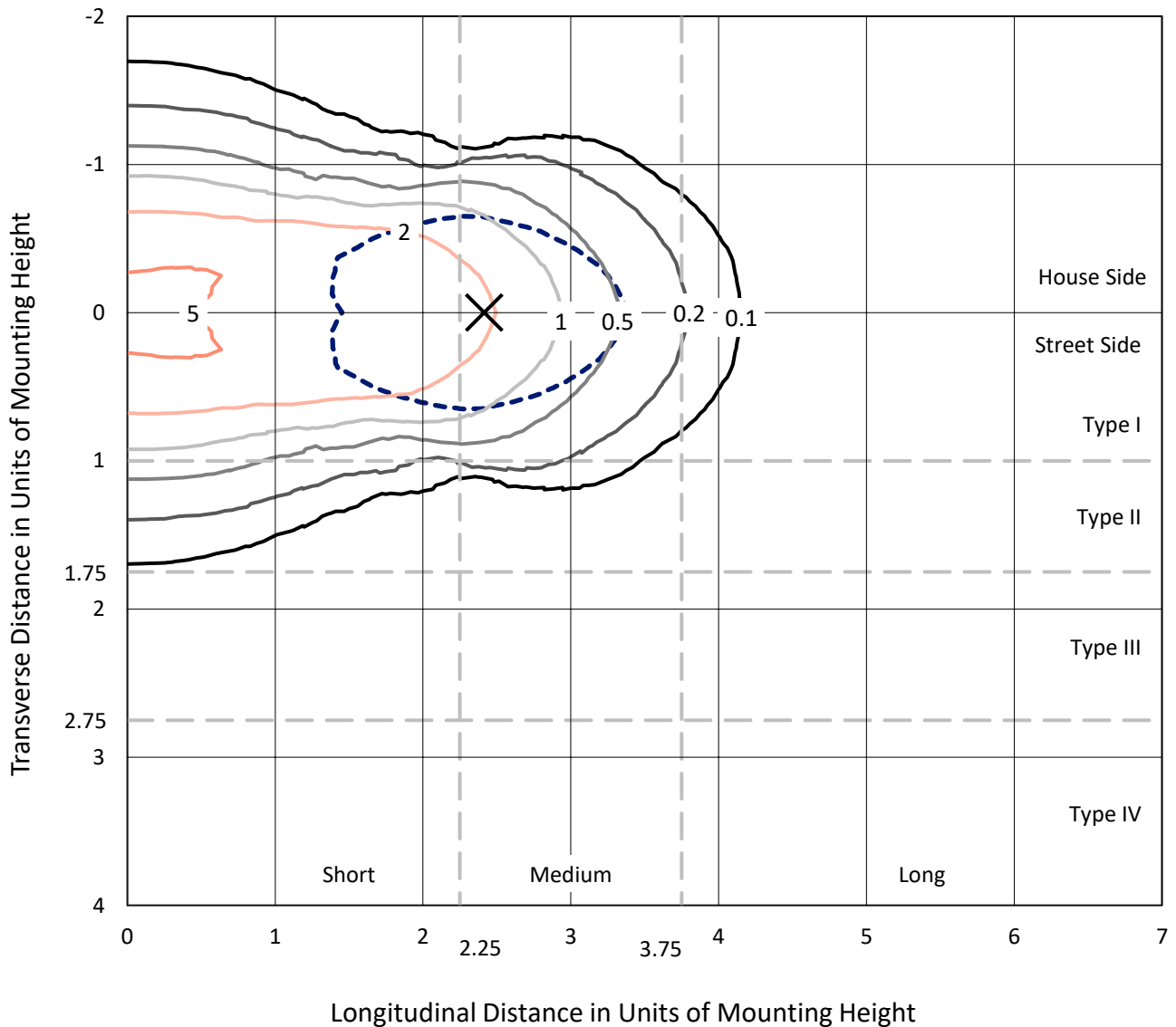
Input Watts (W): 164
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

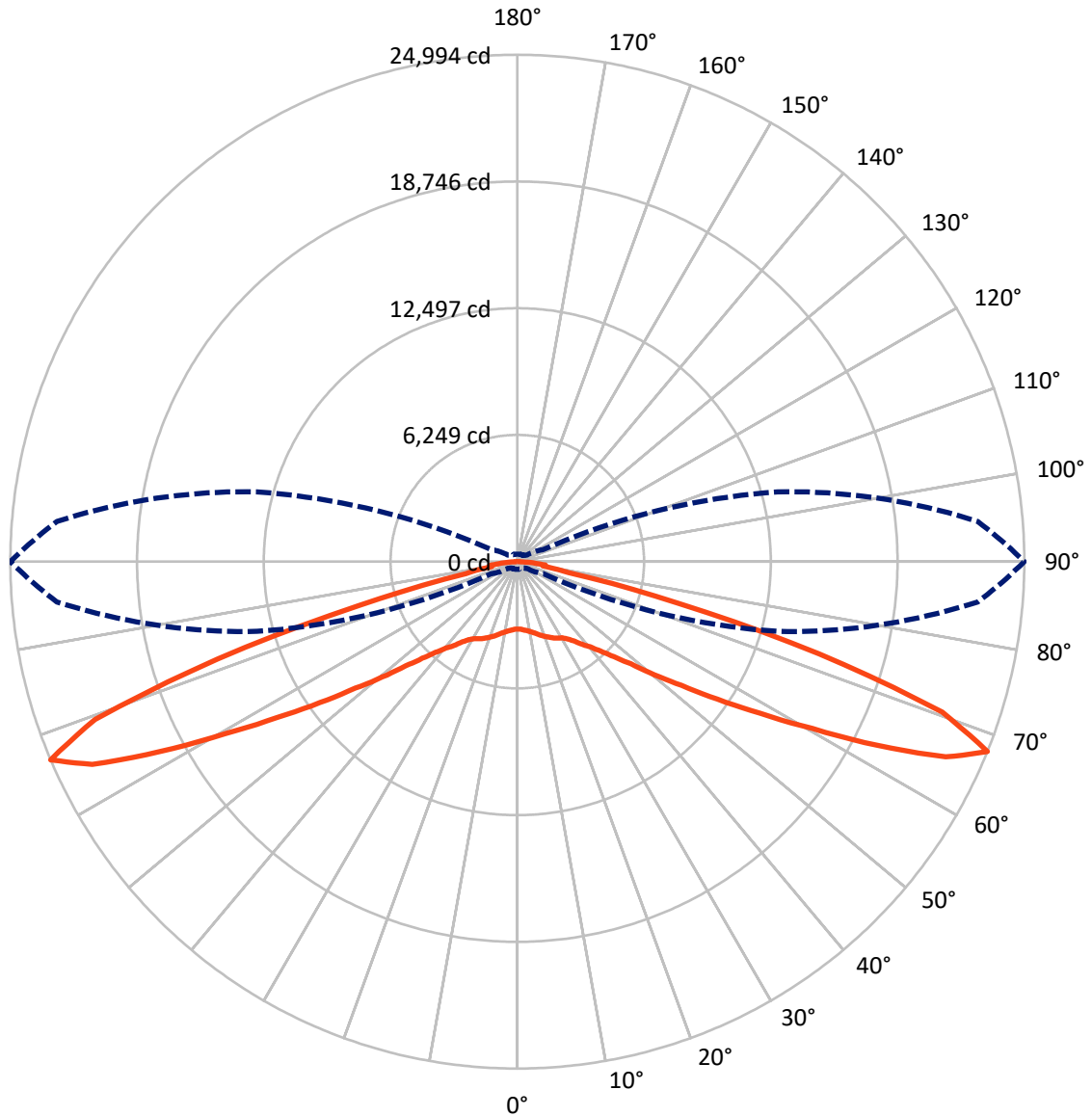
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9396.0	0.0	9396.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9396.0	0.0	9396.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	18792.0	0.0	18792.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	331.7	1.8
10°-20°	1061.2	5.6
20°-30°	1776.2	9.5
30°-40°	2406.2	12.8
40°-50°	3047.9	16.2
50°-60°	3807.6	20.3
60°-70°	4475.6	23.8
70°-80°	1712.1	9.1
80°-90°	173.5	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°	18792.0	100.0
0°-180°	18792.0	100.0

Coefficient of Utilization



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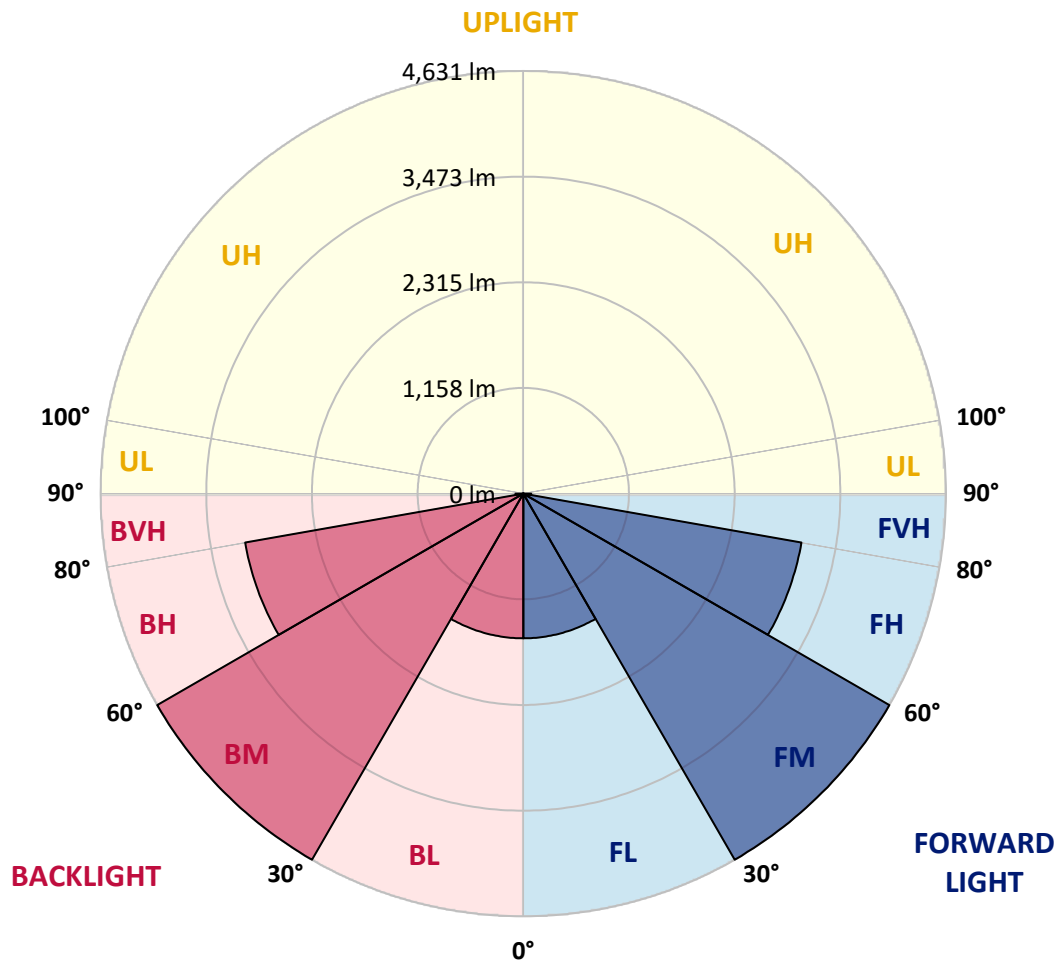
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1584.5	8.4			
FM (30°-60°)	4630.9	24.6			
FH (60°-80°)	3093.9	16.5			G2/5000
FVH (80°-90°)	86.7	0.5			G1/100
BL (0°-30°)	1584.5	8.4	B3/2500		
BM (30°-60°)	4630.9	24.6	B3/5000		
BH (60°-80°)	3093.9	16.5	B4/5000		G4/5000
BVH (80°-90°)	86.7	0.5			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 I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3326.8	3326.8	3326.8	3326.8	3326.8	3326.8	3326.8	3326.8	3326.8	3326.8	3326.8
2.5°	3369.4	3367.4	3368.4	3367.4	3370.5	3368.4	3355.9	3345.5	3337.2	3338.2	3335.1
5°	3441.2	3442.3	3443.3	3438.1	3445.4	3441.2	3421.5	3404.8	3388.2	3381.9	3379.8
7.5°	3500.5	3505.8	3508.9	3514.1	3526.6	3526.6	3516.2	3492.2	3455.8	3435.0	3433.9
10°	3559.9	3564.0	3573.4	3590.0	3610.9	3630.6	3626.5	3594.2	3547.4	3512.0	3503.7
12.5°	3580.7	3585.9	3617.1	3665.0	3711.8	3750.3	3750.3	3724.3	3663.9	3609.8	3594.2
15°	3507.8	3517.2	3573.4	3675.4	3798.2	3882.4	3901.2	3864.8	3800.2	3717.0	3698.3
17.5°	3363.2	3386.1	3468.3	3619.2	3823.1	3998.0	4052.1	4034.4	3951.1	3845.0	3823.1
20°	3208.1	3233.1	3320.5	3520.3	3802.3	4065.6	4222.7	4226.9	4123.9	3969.9	3937.6
22.5°	3037.5	3056.2	3168.6	3402.7	3739.9	4081.2	4369.4	4441.2	4301.8	4094.7	4048.9
25°	2846.0	2866.8	2984.4	3237.3	3622.3	4063.5	4503.7	4661.8	4488.1	4227.9	4169.6
27.5°	2662.9	2671.2	2797.1	3054.1	3467.2	4017.7	4602.5	4864.8	4694.1	4338.2	4264.3
30°	2487.0	2506.8	2618.1	2872.0	3289.3	3928.2	4687.9	5095.8	4915.8	4453.7	4359.0
32.5°	2300.7	2324.7	2445.4	2702.4	3111.4	3794.0	4739.9	5348.6	5224.8	4641.0	4540.1
35°	2121.8	2137.4	2259.1	2508.9	2937.6	3637.9	4749.3	5633.8	5623.4	4925.1	4790.9
37.5°	1938.6	1961.5	2084.3	2323.6	2753.4	3472.5	4702.4	5936.6	6104.1	5319.5	5174.9
40°	1762.8	1782.5	1903.2	2144.7	2544.2	3270.6	4591.1	6213.4	6665.0	5725.3	5520.3
42.5°	1571.3	1576.5	1708.7	1954.2	2339.2	3036.4	4430.8	6460.0	7290.4	6269.6	6014.6
45°	1353.8	1367.3	1490.1	1731.5	2104.1	2774.2	4213.4	6663.9	8083.3	7024.0	6676.4
47.5°	1136.3	1147.8	1260.2	1498.5	1847.0	2473.5	3878.3	6842.9	8897.1	7982.4	7526.6
50°	924.0	930.3	1021.9	1233.1	1557.8	2157.1	3463.1	6900.2	9816.9	9339.3	8757.6
52.5°	730.5	739.9	809.6	975.0	1248.7	1783.6	3014.6	6758.6	10890.8	10948.1	10128.1
55°	592.1	595.2	647.2	769.0	976.1	1392.3	2473.5	6364.3	12045.9	13009.5	11963.7
57.5°	509.9	512.0	541.1	608.7	751.3	1050.0	1918.8	5618.2	13083.3	15424.7	14080.2
60°	463.1	464.1	480.8	520.3	595.2	805.4	1374.6	4565.1	14107.3	18112.5	16710.8
62.5°	433.9	433.9	445.4	467.2	503.6	618.1	995.8	3293.5	14808.6	20839.9	19953.3
65°	405.8	405.8	414.2	429.8	449.5	505.7	735.7	2147.8	14791.0	22826.4	23214.5
67.5°	373.6	373.6	379.8	395.4	406.9	435.0	568.2	1406.9	13286.3	22782.7	24994.0
70°	335.1	335.1	343.4	356.9	366.3	384.0	448.5	962.5	9760.7	19452.8	22228.1
72.5°	296.6	297.6	302.8	316.3	323.6	334.0	372.5	674.3	5987.6	13245.7	15542.3
75°	253.9	256.0	261.2	274.7	281.0	285.1	314.3	480.8	3029.2	7141.6	8131.2
77.5°	205.0	209.2	212.3	226.8	231.0	237.3	259.1	347.6	1329.9	2566.1	2589.0
80°	149.8	155.0	164.4	177.9	181.1	185.2	197.7	246.6	602.5	1171.7	1272.6
82.5°	110.3	117.6	106.1	123.8	123.8	118.6	139.4	165.5	276.8	1160.3	1388.1
85°	60.4	61.4	55.2	63.5	67.6	66.6	73.9	81.2	134.2	774.2	798.1
87.5°	14.6	15.6	16.6	19.8	23.9	23.9	26.0	22.9	43.7	250.8	143.6
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)