

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: P454150

Luminaire Tested: **GALN-SA5B-727-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454150
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-727-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 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: 23789 lumens
Efficiency: N/A
Efficacy: 116.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

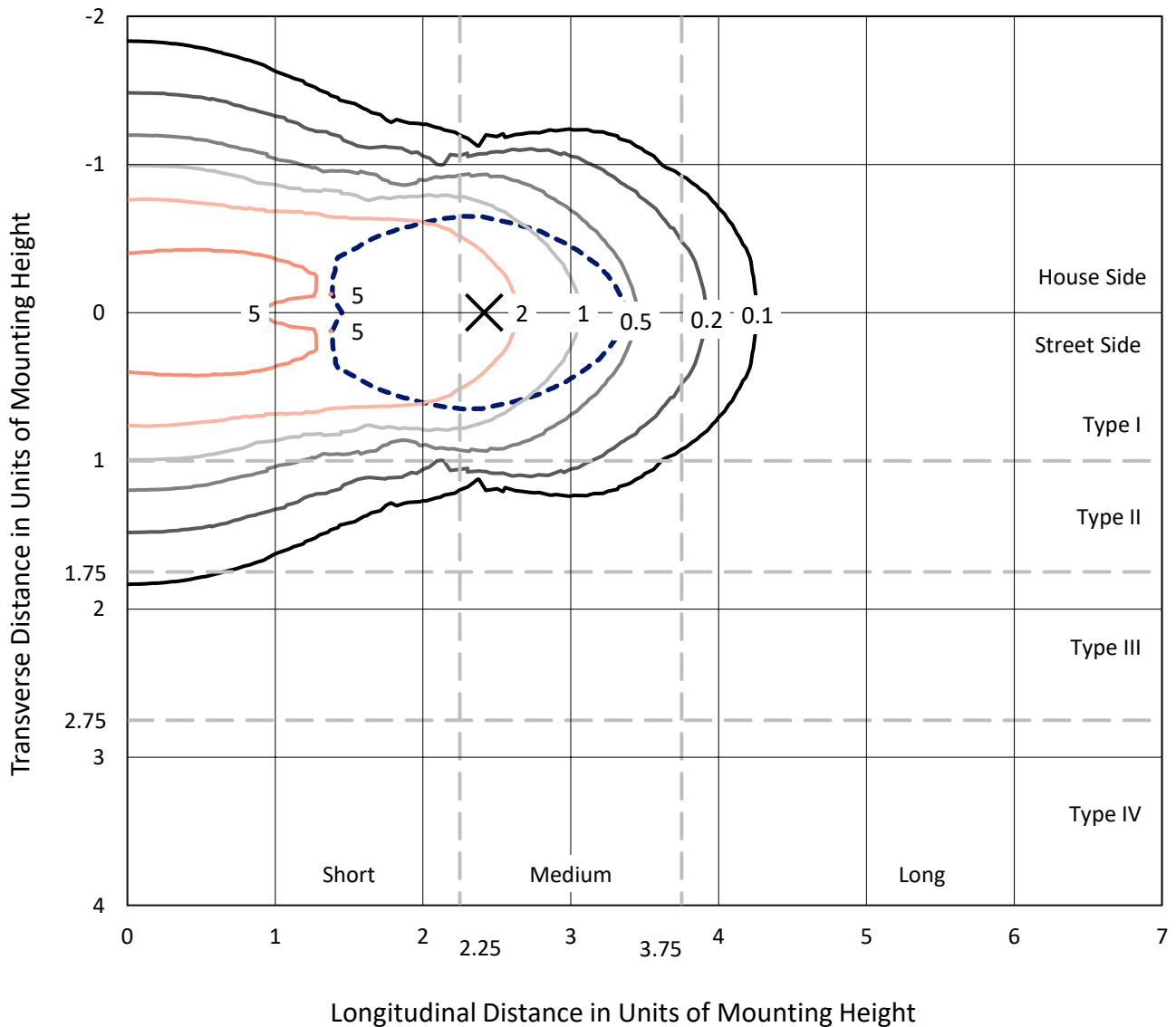
Input Watts (W): 204
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

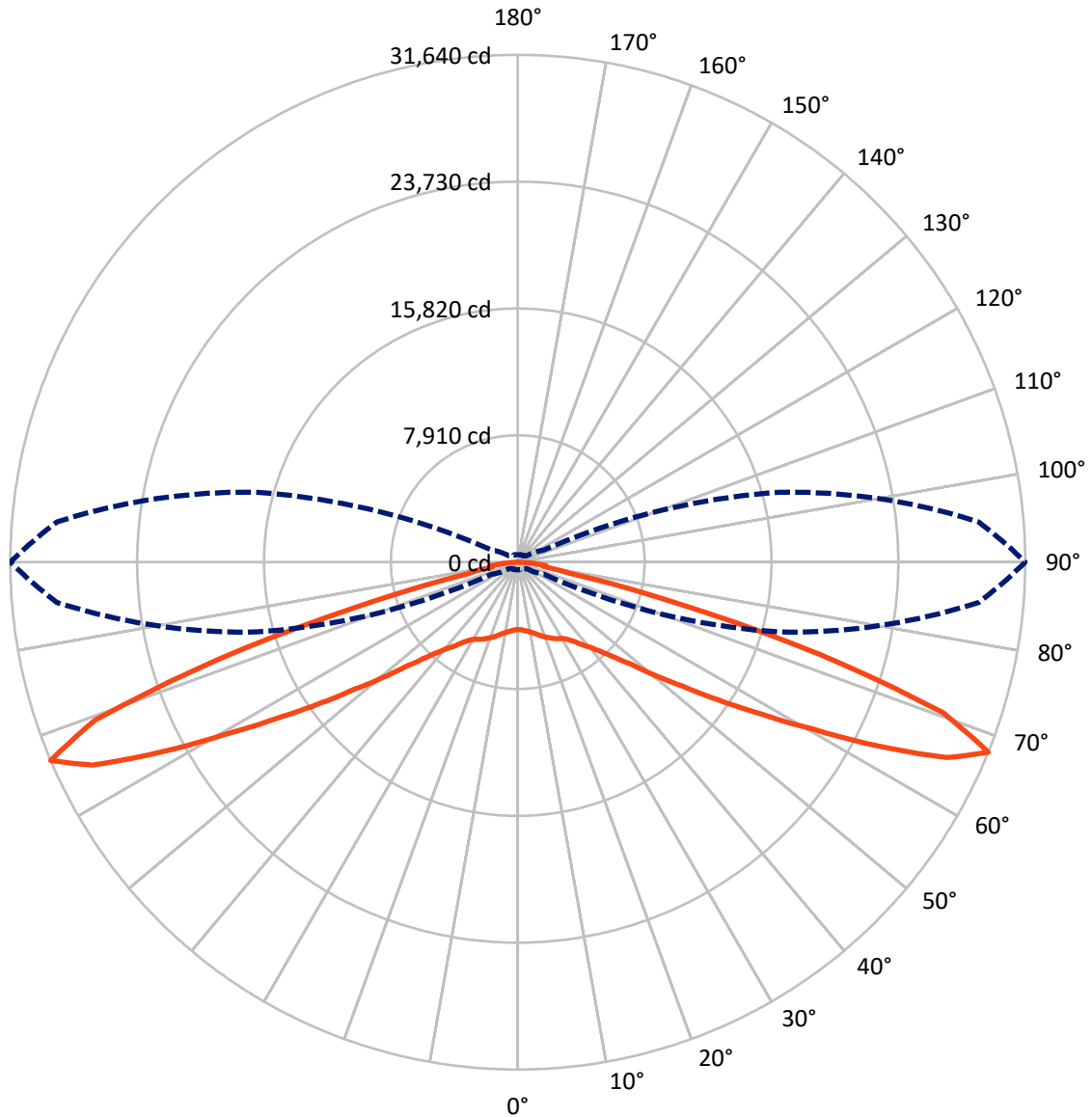
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 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	11894.5	0.0	11894.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11894.5	0.0	11894.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	23789.0	0.0	23789.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	419.9	1.8
10°-20°	1343.4	5.6
20°-30°	2248.5	9.5
30°-40°	3046.1	12.8
40°-50°	3858.4	16.2
50°-60°	4820.1	20.3
60°-70°	5665.8	23.8
70°-80°	2167.4	9.1
80°-90°	219.6	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°	23789.0	100.0
0°-180°	23789.0	100.0

Coefficient of Utilization



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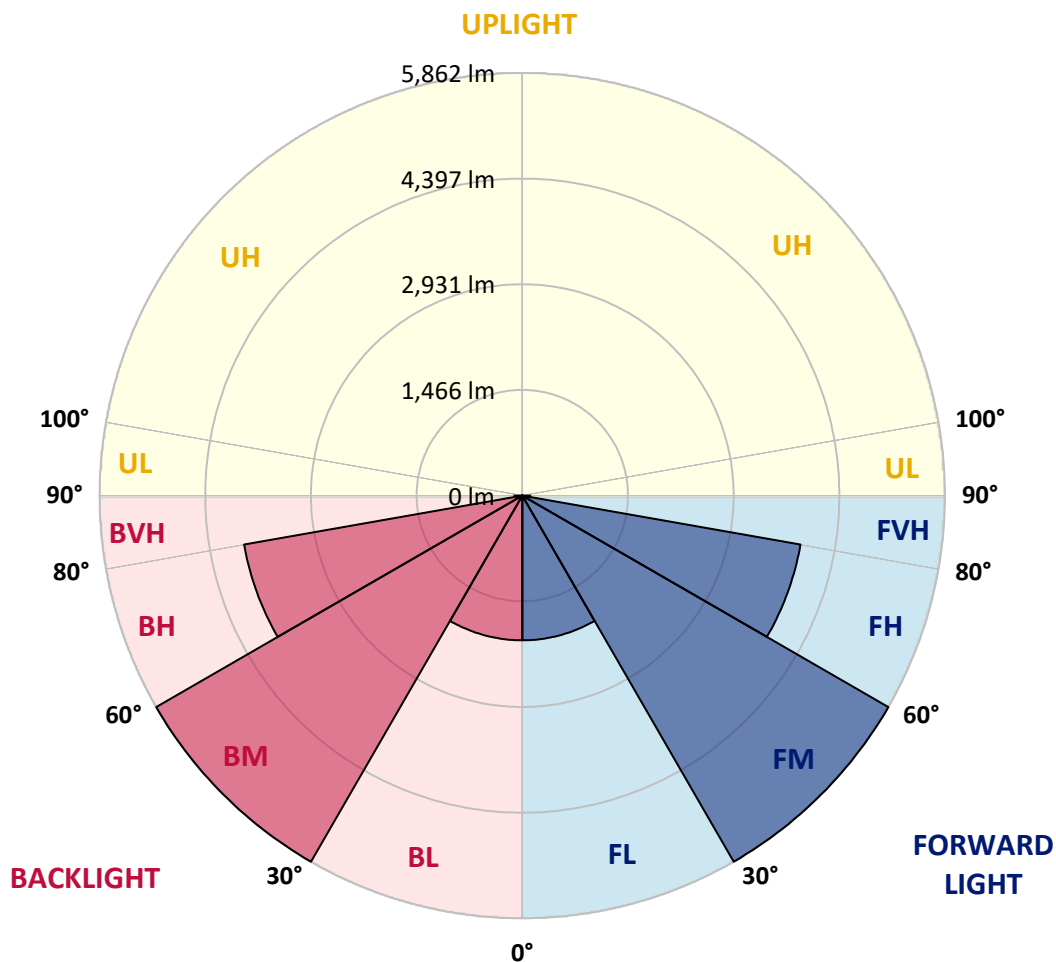
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2005.9	8.4			
FM (30°-60°)	5862.3	24.6			
FH (60°-80°)	3916.6	16.5			G2/5000
FVH (80°-90°)	109.8	0.5			G2/225
BL (0°-30°)	2005.9	8.4	B3/2500		
BM (30°-60°)	5862.3	24.6	B4/8500		
BH (60°-80°)	3916.6	16.5	B4/5000		G4/5000
BVH (80°-90°)	109.8	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°	4211.4	4211.4	4211.4	4211.4	4211.4	4211.4	4211.4	4211.4	4211.4	4211.4	4211.4
2.5°	4265.4	4262.8	4264.1	4262.8	4266.7	4264.1	4248.3	4235.1	4224.6	4225.9	4221.9
5°	4356.3	4357.6	4358.9	4352.3	4361.6	4356.3	4331.3	4310.2	4289.1	4281.2	4278.6
7.5°	4431.4	4438.0	4441.9	4448.5	4464.3	4464.3	4451.1	4420.8	4374.7	4348.4	4347.1
10°	4506.5	4511.7	4523.6	4544.7	4571.0	4596.0	4590.8	4549.9	4490.7	4445.9	4435.3
12.5°	4532.8	4539.4	4578.9	4639.5	4698.8	4747.5	4747.5	4714.6	4638.2	4569.7	4549.9
15°	4440.6	4452.5	4523.6	4652.7	4808.1	4914.8	4938.5	4892.4	4810.8	4705.4	4681.7
17.5°	4257.5	4286.5	4390.5	4581.6	4839.7	5061.0	5129.5	5107.2	5001.8	4867.4	4839.7
20°	4061.2	4092.8	4203.5	4456.4	4813.4	5146.7	5345.6	5350.9	5220.4	5025.5	4984.6
22.5°	3845.2	3868.9	4011.2	4307.6	4734.4	5166.4	5531.3	5622.2	5445.7	5183.6	5125.6
25°	3602.8	3629.1	3778.0	4098.1	4585.5	5144.0	5701.3	5901.5	5681.5	5352.2	5278.4
27.5°	3371.0	3381.5	3540.9	3866.3	4389.2	5086.1	5826.4	6158.4	5942.3	5491.8	5398.3
30°	3148.3	3173.4	3314.3	3635.7	4164.0	4972.8	5934.4	6450.8	6222.9	5638.0	5518.2
32.5°	2912.5	2942.8	3095.6	3421.0	3938.7	4802.9	6000.3	6770.9	6614.1	5875.1	5747.4
35°	2686.0	2705.7	2859.8	3176.0	3718.7	4605.3	6012.1	7131.8	7118.7	6234.8	6064.8
37.5°	2454.1	2483.1	2638.5	2941.5	3485.6	4395.8	5952.9	7515.2	7727.3	6734.0	6550.9
40°	2231.5	2256.5	2409.3	2714.9	3220.8	4140.3	5811.9	7865.6	8437.3	7247.8	6988.3
42.5°	1989.1	1995.7	2163.0	2473.9	2961.3	3843.9	5609.0	8177.8	9229.0	7936.7	7614.0
45°	1713.8	1730.9	1886.4	2192.0	2663.6	3511.9	5333.7	8436.0	10232.8	8891.7	8451.8
47.5°	1438.5	1453.0	1595.2	1896.9	2338.2	3131.2	4909.6	8662.5	11262.9	10105.0	9528.0
50°	1169.8	1177.7	1293.6	1561.0	1972.0	2730.8	4384.0	8735.0	12427.4	11822.7	11086.4
52.5°	924.7	936.6	1024.9	1234.3	1580.8	2257.8	3816.2	8555.8	13786.8	13859.3	12821.2
55°	749.5	753.5	819.4	973.5	1235.6	1762.5	3131.2	8056.6	15249.0	16468.8	15144.9
57.5°	645.5	648.1	685.0	770.6	951.1	1329.2	2429.1	7112.1	16562.4	19526.3	17824.3
60°	586.2	587.5	608.6	658.6	753.5	1019.6	1740.1	5779.0	17858.6	22928.8	21154.4
62.5°	549.3	549.3	563.8	591.5	637.6	782.5	1260.7	4169.2	18746.4	26381.5	25259.1
65°	513.7	513.7	524.3	544.0	569.1	640.2	931.3	2718.9	18724.0	28896.2	29387.5
67.5°	472.9	472.9	480.8	500.6	515.1	550.6	719.2	1781.0	16819.2	28840.9	31640.1
70°	424.2	424.2	434.7	451.8	463.7	486.1	567.8	1218.5	12356.2	24625.5	28138.7
72.5°	375.4	376.7	383.3	400.5	409.7	422.9	471.6	853.6	7579.7	16767.9	19675.1
75°	321.4	324.1	330.6	347.8	355.7	360.9	397.8	608.6	3834.6	9040.6	10293.3
77.5°	259.5	264.8	268.7	287.2	292.4	300.3	328.0	440.0	1683.5	3248.5	3277.4
80°	189.7	196.3	208.1	225.3	229.2	234.5	250.3	312.2	762.7	1483.3	1611.1
82.5°	139.6	148.9	134.4	156.8	156.8	150.2	176.5	209.4	350.4	1468.8	1757.3
85°	76.4	77.7	69.8	80.4	85.6	84.3	93.5	102.7	169.9	980.1	1010.4
87.5°	18.4	19.8	21.1	25.0	30.3	30.3	32.9	29.0	55.3	317.5	181.8
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)