

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: P453918

Luminaire Tested: **GALN-SA5A-727-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453918
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-SA5A-727-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19119 lumens
Efficiency: N/A
Efficacy: 124.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

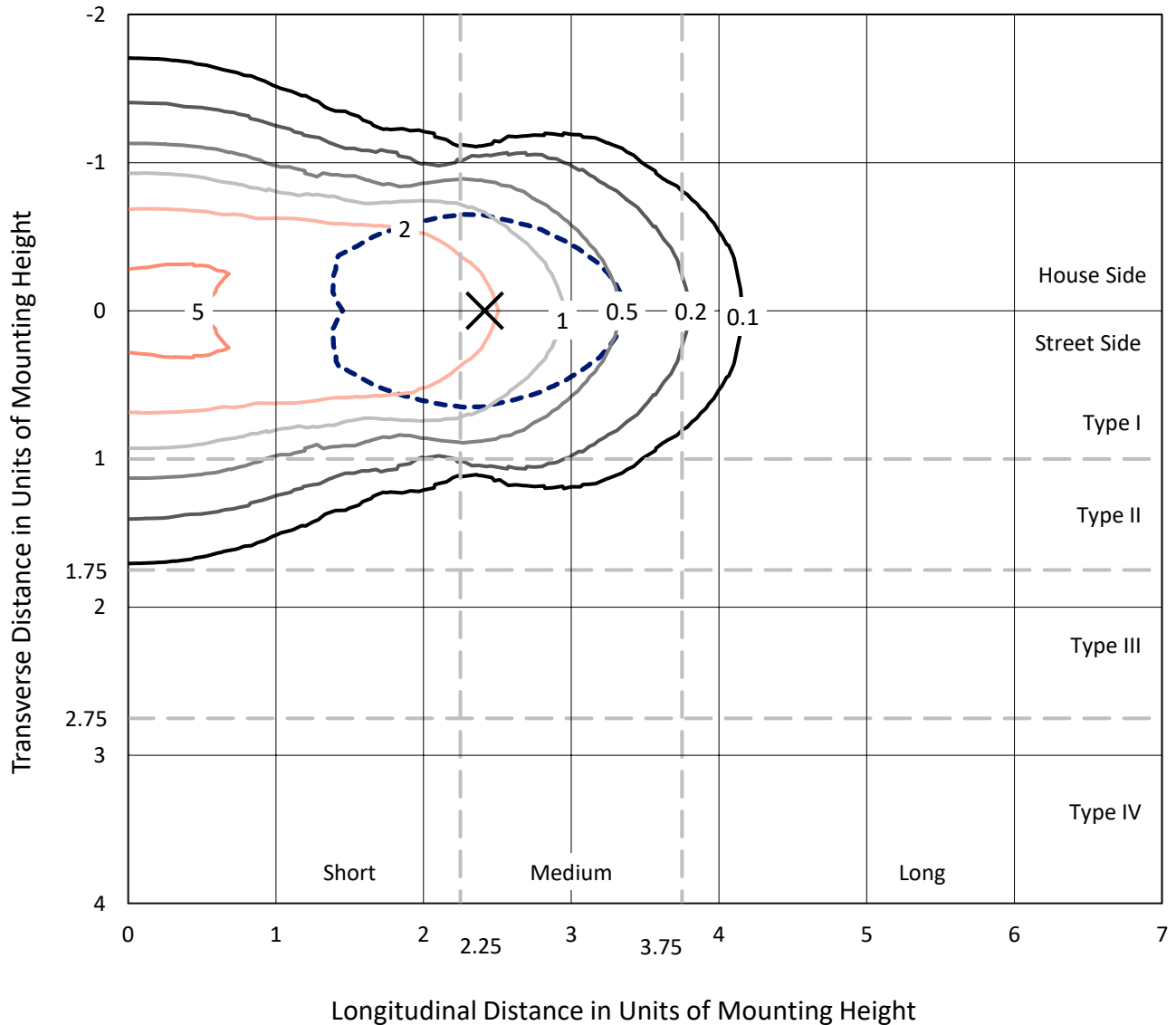
Input Watts (W): 154
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

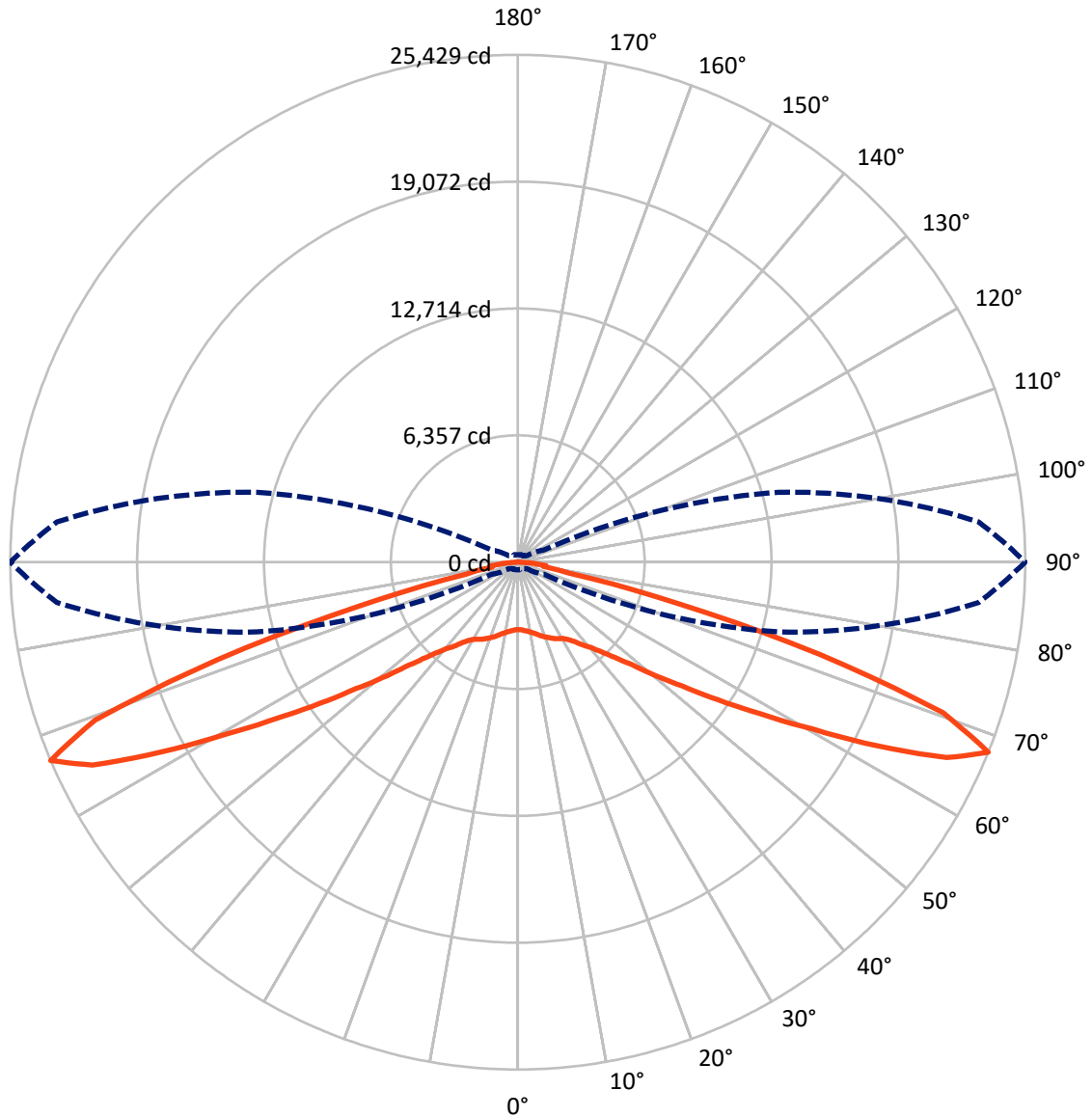
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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	9559.5	0.0	9559.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9559.5	0.0	9559.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	19119.0	0.0	19119.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	337.4	1.8
10°-20°	1079.7	5.6
20°-30°	1807.1	9.5
30°-40°	2448.1	12.8
40°-50°	3100.9	16.2
50°-60°	3873.8	20.3
60°-70°	4553.5	23.8
70°-80°	1741.9	9.1
80°-90°	176.5	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°	19119.0	100.0
0°-180°	19119.0	100.0

Coefficient of Utilization



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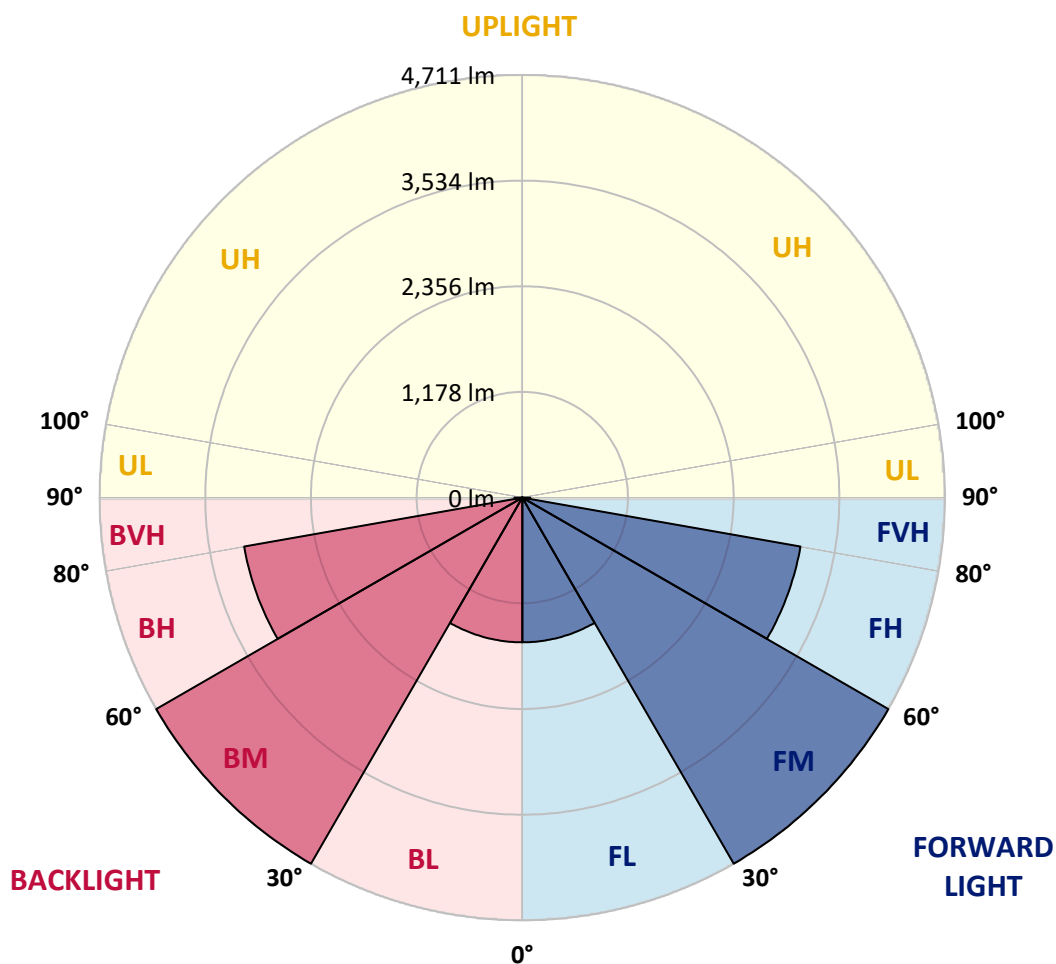
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1612.1	8.4			
FM	(30°-60°)	4711.4	24.6			
FH	(60°-80°)	3147.7	16.5			G2/5000
FVH	(80°-90°)	88.2	0.5			G1/100
BL	(0°-30°)	1612.1	8.4	B3/2500		
BM	(30°-60°)	4711.4	24.6	B3/5000		
BH	(60°-80°)	3147.7	16.5	B4/5000		G4/5000
BVH	(80°-90°)	88.2	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°	3384.7	3384.7	3384.7	3384.7	3384.7	3384.7	3384.7	3384.7	3384.7	3384.7	3384.7
2.5°	3428.1	3425.9	3427.0	3425.9	3429.1	3427.0	3414.3	3403.7	3395.2	3396.3	3393.1
5°	3501.1	3502.2	3503.2	3497.9	3505.3	3501.1	3481.0	3464.1	3447.1	3440.8	3438.7
7.5°	3561.5	3566.8	3569.9	3575.2	3587.9	3587.9	3577.3	3553.0	3515.9	3494.8	3493.7
10°	3621.8	3626.0	3635.6	3652.5	3673.7	3693.8	3689.6	3656.7	3609.1	3573.1	3564.6
12.5°	3643.0	3648.3	3680.0	3728.7	3776.4	3815.5	3815.5	3789.1	3727.7	3672.6	3656.7
15°	3568.9	3578.4	3635.6	3739.3	3864.2	3950.0	3969.1	3932.0	3866.4	3781.7	3762.6
17.5°	3421.7	3445.0	3528.6	3682.2	3889.7	4067.5	4122.6	4104.6	4019.9	3911.9	3889.7
20°	3264.0	3289.4	3378.3	3581.6	3868.5	4136.3	4296.2	4300.4	4195.6	4038.9	4006.1
22.5°	3090.3	3109.4	3223.7	3461.9	3805.0	4152.2	4445.5	4518.5	4376.7	4166.0	4119.4
25°	2895.5	2916.7	3036.3	3293.6	3685.3	4134.2	4582.0	4743.0	4566.2	4301.5	4242.2
27.5°	2709.2	2717.7	2845.8	3107.3	3527.6	4087.6	4682.6	4949.4	4775.8	4413.7	4338.5
30°	2530.3	2550.4	2663.7	2922.0	3346.5	3996.6	4769.4	5184.4	5001.3	4531.2	4434.9
32.5°	2340.8	2365.1	2487.9	2749.4	3165.5	3860.0	4822.4	5441.7	5315.7	4721.8	4619.1
35°	2158.7	2174.6	2298.4	2552.5	2988.7	3701.2	4831.9	5731.8	5721.2	5010.8	4874.2
37.5°	1972.4	1995.6	2120.6	2364.1	2801.3	3532.9	4784.3	6039.9	6210.3	5412.1	5264.9
40°	1793.4	1813.6	1936.4	2182.0	2588.5	3327.5	4671.0	6321.5	6781.0	5825.0	5616.4
42.5°	1598.6	1603.9	1738.4	1988.2	2380.0	3089.3	4507.9	6572.4	7417.2	6378.7	6119.3
45°	1377.4	1391.1	1516.1	1761.7	2140.7	2822.5	4286.7	6779.9	8224.0	7146.2	6792.6
47.5°	1156.1	1167.7	1282.1	1524.5	1879.2	2516.5	3945.8	6962.0	9051.9	8121.3	7657.6
50°	940.1	946.5	1039.6	1254.6	1584.9	2194.7	3523.3	7020.2	9987.8	9501.8	8910.0
52.5°	743.2	752.7	823.7	992.0	1270.4	1814.6	3067.0	6876.2	11080.3	11138.6	10304.3
55°	602.4	605.6	658.5	782.4	993.1	1416.5	2516.5	6475.0	12255.5	13235.8	12171.9
57.5°	518.8	520.9	550.5	619.3	764.4	1068.2	1952.2	5715.9	13311.0	15693.1	14325.2
60°	471.1	472.2	489.1	529.3	605.6	819.4	1398.5	4644.5	14352.8	18427.7	17001.6
62.5°	441.5	441.5	453.1	475.4	512.4	628.9	1013.2	3350.8	15066.3	21202.5	20300.5
65°	412.9	412.9	421.4	437.2	457.4	514.5	748.5	2185.2	15048.3	23223.6	23618.5
67.5°	380.1	380.1	386.4	402.3	414.0	442.5	578.0	1431.4	13517.5	23179.1	25428.9
70°	340.9	340.9	349.4	363.1	372.7	390.7	456.3	979.3	9930.6	19791.3	22614.9
72.5°	301.7	302.8	308.1	321.8	329.3	339.8	379.0	686.0	6091.7	13476.2	15812.7
75°	258.3	260.4	265.7	279.5	285.8	290.1	319.7	489.1	3081.9	7265.8	8272.7
77.5°	208.6	212.8	216.0	230.8	235.0	241.4	263.6	353.6	1353.0	2610.7	2634.0
80°	152.5	157.7	167.3	181.0	184.2	188.4	201.2	250.9	613.0	1192.1	1294.8
82.5°	112.2	119.6	108.0	126.0	126.0	120.7	141.9	168.3	281.6	1180.4	1412.3
85°	61.4	62.5	56.1	64.6	68.8	67.8	75.2	82.6	136.6	787.7	812.0
87.5°	14.8	15.9	16.9	20.1	24.4	24.4	26.5	23.3	44.5	255.1	146.1
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)