

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: P452526

Luminaire Tested: **GALN-SA3C-727-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452526
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-SA3C-727-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17521 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

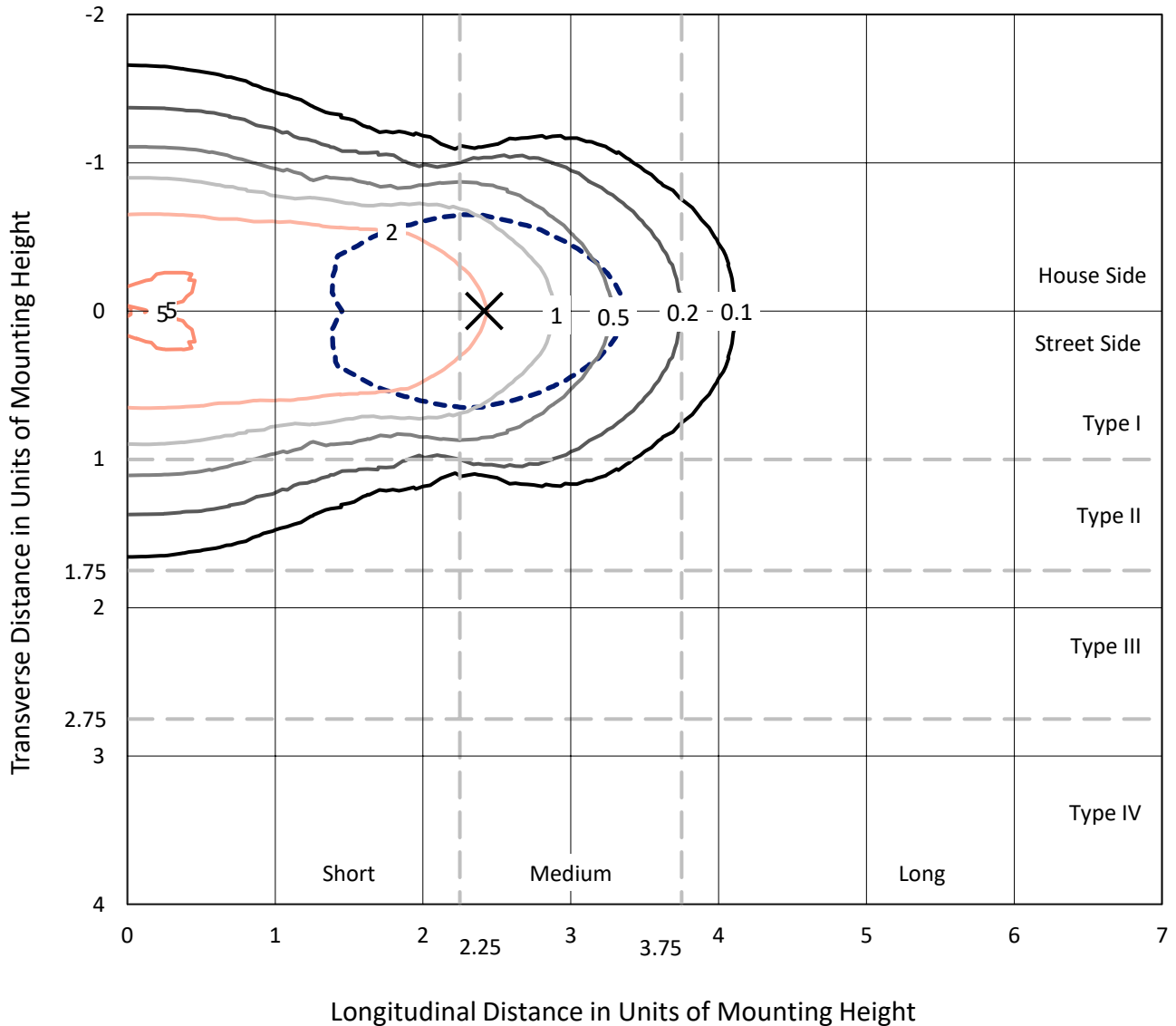
Input Watts (W): 160
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

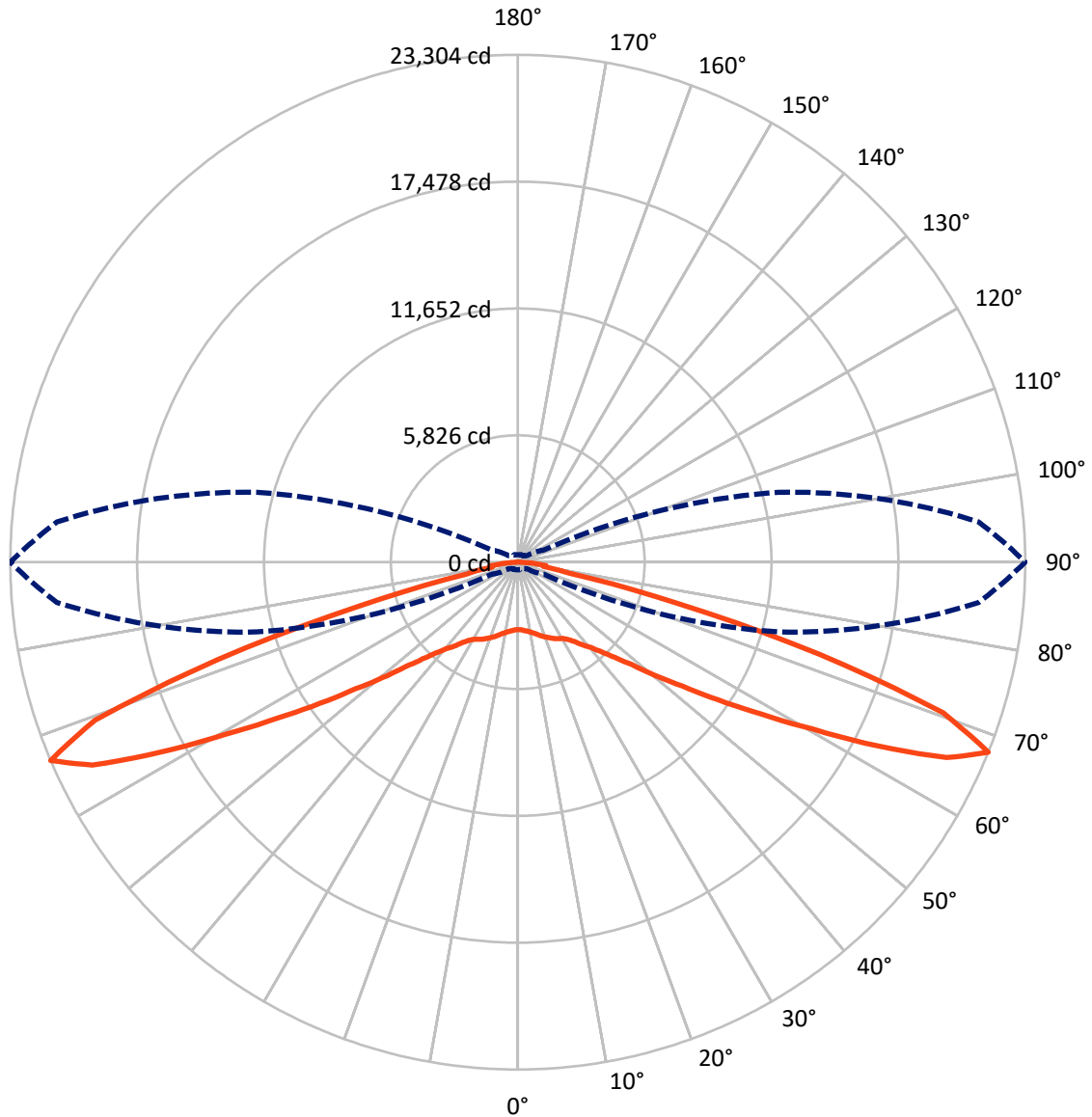
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type 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	8760.5	0.0	8760.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8760.5	0.0	8760.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	17521.0	0.0	17521.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	309.2	1.8
10°-20°	989.4	5.6
20°-30°	1656.0	9.5
30°-40°	2243.5	12.8
40°-50°	2841.8	16.2
50°-60°	3550.1	20.3
60°-70°	4172.9	23.8
70°-80°	1596.3	9.1
80°-90°	161.7	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°	17521.0	100.0
0°-180°	17521.0	100.0

Coefficient of Utilization



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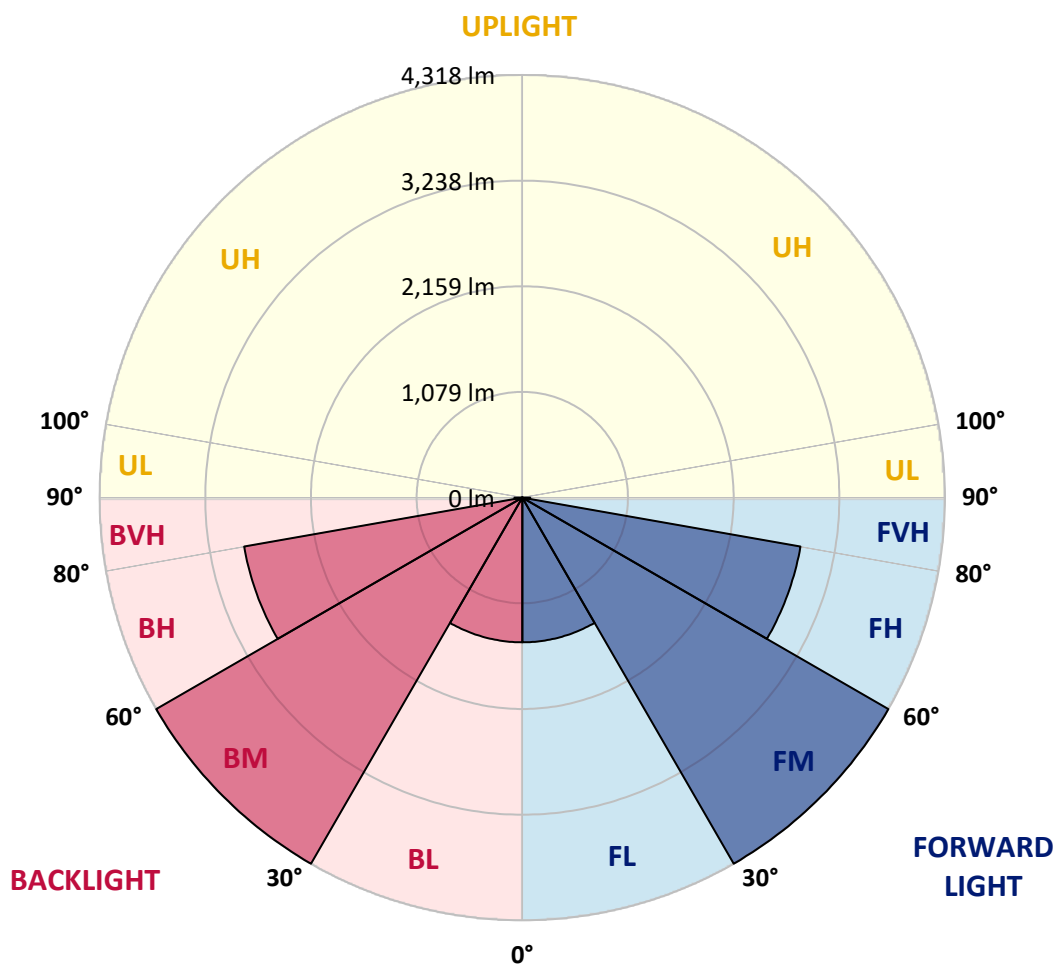
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1477.3	8.4			
FM	(30°-60°)	4317.7	24.6			
FH	(60°-80°)	2884.6	16.5			G2/5000
FVH	(80°-90°)	80.9	0.5			G1/100
BL	(0°-30°)	1477.3	8.4	B3/2500		
BM	(30°-60°)	4317.7	24.6	B3/5000		
BH	(60°-80°)	2884.6	16.5	B4/5000		G4/5000
BVH	(80°-90°)	80.9	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°	3101.8	3101.8	3101.8	3101.8	3101.8	3101.8	3101.8	3101.8	3101.8	3101.8	3101.8
2.5°	3141.5	3139.6	3140.6	3139.6	3142.5	3140.6	3128.9	3119.2	3111.5	3112.4	3109.5
5°	3208.5	3209.5	3210.4	3205.6	3212.4	3208.5	3190.1	3174.5	3159.0	3153.2	3151.2
7.5°	3263.8	3268.6	3271.5	3276.4	3288.0	3288.0	3278.3	3256.0	3222.1	3202.7	3201.7
10°	3319.1	3323.0	3331.7	3347.2	3366.6	3385.1	3381.2	3351.1	3307.4	3274.5	3266.7
12.5°	3338.5	3343.3	3372.5	3417.1	3460.7	3496.6	3496.6	3472.4	3416.1	3365.7	3351.1
15°	3270.6	3279.3	3331.7	3426.8	3541.3	3619.9	3637.3	3603.4	3543.2	3465.6	3448.1
17.5°	3135.7	3157.1	3233.7	3374.4	3564.6	3727.5	3778.0	3761.5	3683.9	3584.9	3564.6
20°	2991.2	3014.4	3095.9	3282.2	3545.1	3790.6	3937.1	3941.0	3844.9	3701.4	3671.3
22.5°	2832.0	2849.5	2954.3	3172.6	3486.9	3805.2	4073.9	4140.9	4010.8	3817.8	3775.1
25°	2653.5	2672.9	2782.6	3018.3	3377.3	3788.7	4199.1	4346.5	4184.5	3942.0	3887.6
27.5°	2482.8	2490.5	2607.9	2847.6	3232.7	3746.0	4291.2	4535.7	4376.6	4044.8	3975.9
30°	2318.8	2337.2	2441.0	2677.8	3066.8	3662.5	4370.8	4751.1	4583.3	4152.5	4064.2
32.5°	2145.1	2167.4	2280.0	2519.6	2900.9	3537.4	4419.3	4986.9	4871.4	4327.1	4233.0
35°	1978.3	1992.8	2106.3	2339.2	2738.9	3391.9	4428.0	5252.7	5243.0	4592.0	4466.8
37.5°	1807.5	1828.8	1943.3	2166.5	2567.2	3237.6	4384.4	5535.1	5691.3	4959.7	4824.9
40°	1643.5	1662.0	1774.5	1999.6	2372.2	3049.4	4280.6	5793.1	6214.2	5338.1	5147.0
42.5°	1465.0	1469.9	1593.1	1822.1	2181.0	2831.1	4131.2	6023.1	6797.3	5845.5	5607.8
45°	1262.2	1274.9	1389.3	1614.4	1961.8	2586.6	3928.4	6213.2	7536.6	6548.9	6224.9
47.5°	1059.5	1070.1	1174.9	1397.1	1722.1	2306.2	3616.0	6380.1	8295.3	7442.5	7017.5
50°	861.5	867.4	952.7	1149.7	1452.4	2011.2	3228.9	6433.5	9153.0	8707.6	8165.3
52.5°	681.1	689.8	754.8	909.1	1164.3	1662.9	2810.7	6301.5	10154.2	10207.6	9443.1
55°	552.0	555.0	603.5	717.0	910.1	1298.1	2306.2	5933.8	11231.2	12129.6	11154.5
57.5°	475.4	477.3	504.5	567.6	700.5	978.9	1789.1	5238.2	12198.5	14381.4	13127.9
60°	431.7	432.7	448.2	485.1	555.0	750.9	1281.6	4256.3	13153.1	16887.5	15580.6
62.5°	404.6	404.6	415.3	435.6	469.6	576.3	928.5	3070.7	13807.1	19430.4	18603.8
65°	378.4	378.4	386.1	400.7	419.1	471.5	685.9	2002.5	13790.6	21282.5	21644.4
67.5°	348.3	348.3	354.1	368.7	379.4	405.5	529.7	1311.7	12387.6	21241.8	23303.5
70°	312.4	312.4	320.2	332.8	341.5	358.0	418.2	897.4	9100.6	18137.1	20724.7
72.5°	276.5	277.5	282.3	294.9	301.7	311.4	347.3	628.7	5582.6	12349.8	14491.1
75°	236.7	238.7	243.5	256.1	262.0	265.8	293.0	448.2	2824.3	6658.6	7581.2
77.5°	191.1	195.0	197.9	211.5	215.4	221.2	241.6	324.1	1239.9	2392.5	2413.9
80°	139.7	144.6	153.3	165.9	168.8	172.7	184.3	229.9	561.8	1092.5	1186.6
82.5°	102.8	109.6	99.0	115.5	115.5	110.6	130.0	154.3	258.1	1081.8	1294.3
85°	56.3	57.2	51.4	59.2	63.1	62.1	68.9	75.7	125.2	721.8	744.2
87.5°	13.6	14.6	15.5	18.4	22.3	22.3	24.3	21.3	40.7	233.8	133.9
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)