

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: P453907

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453907
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-SA5A-727-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19761 lumens
Efficiency: N/A
Efficacy: 128.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

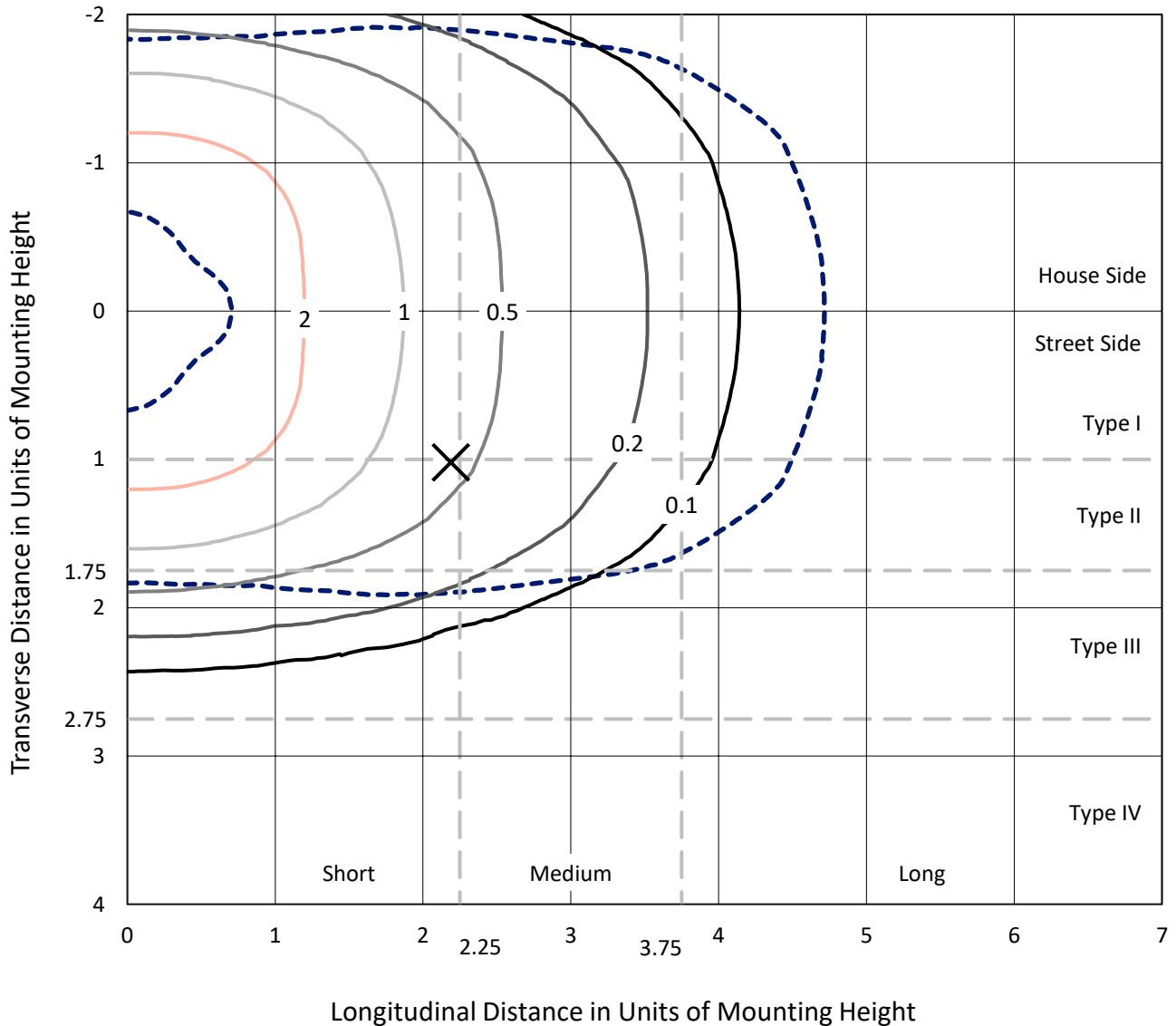
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

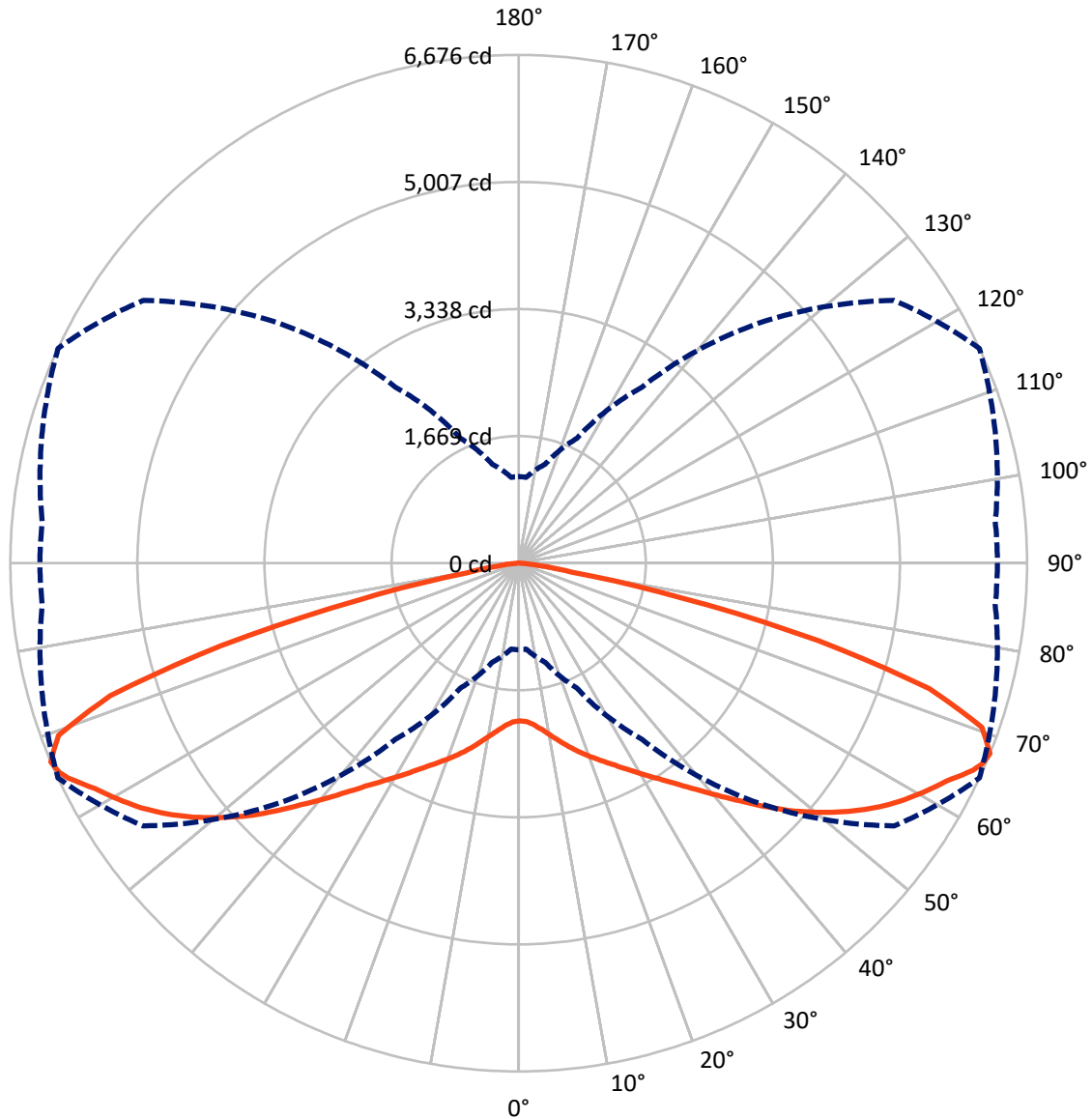
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 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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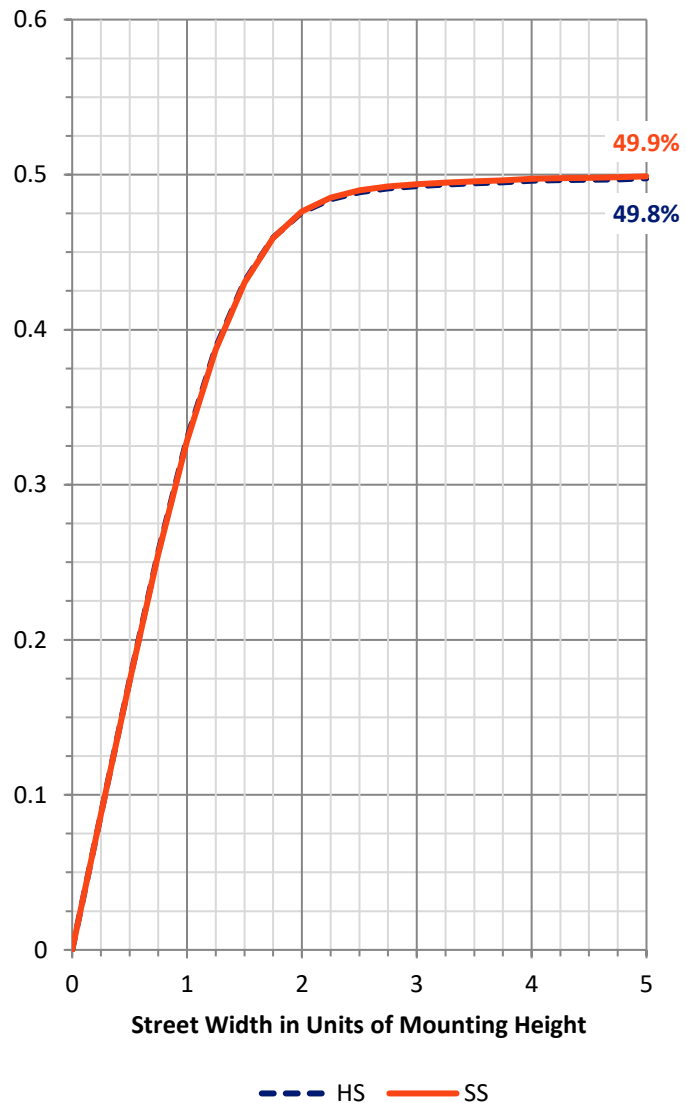
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9880.5	0.0	9880.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9880.5	0.0	9880.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	19761.0	0.0	19761.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.1	1.0
10°-20°	683.2	3.5
20°-30°	1336.4	6.8
30°-40°	2273.1	11.5
40°-50°	3597.7	18.2
50°-60°	4770.4	24.1
60°-70°	4500.0	22.8
70°-80°	2224.6	11.3
80°-90°	171.4	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°	19761.0	100.0
0°-180°	19761.0	100.0



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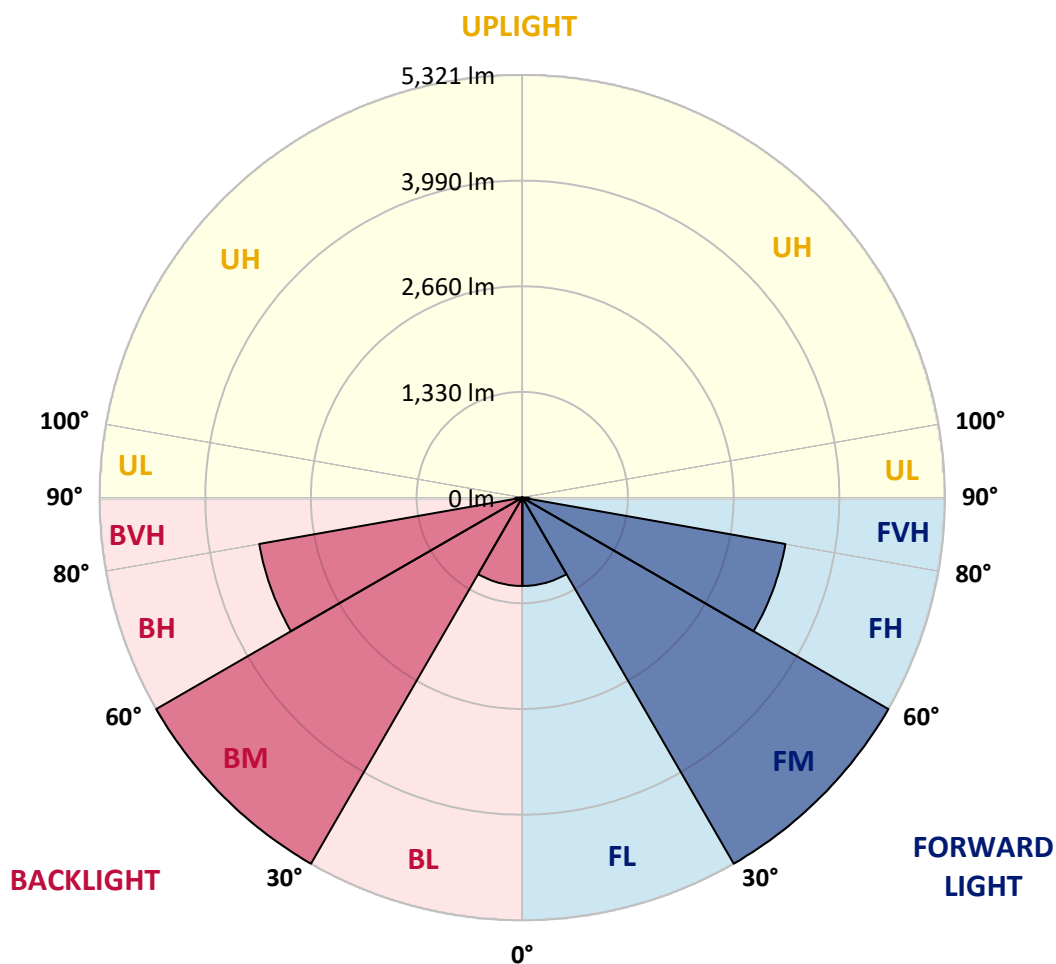
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1111.9	5.6			
FM	(30°-60°)	5320.6	26.9			
FH	(60°-80°)	3362.3	17.0			G2/5000
FVH	(80°-90°)	85.7	0.4			G1/100
BL	(0°-30°)	1111.9	5.6	B3/2500		
BM	(30°-60°)	5320.6	26.9	B4/8500		
BH	(60°-80°)	3362.3	17.0	B4/5000		G4/5000
BVH	(80°-90°)	85.7	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°	2069.8	2069.8	2069.8	2069.8	2069.8	2069.8	2069.8	2069.8	2069.8	2069.8	2069.8
2.5°	2059.2	2061.3	2063.4	2066.6	2070.8	2077.2	2081.4	2084.6	2093.1	2094.1	2093.1
5°	2051.8	2053.9	2059.2	2068.7	2082.5	2101.6	2116.4	2134.4	2148.1	2157.7	2155.5
7.5°	2050.7	2055.0	2063.4	2083.6	2110.0	2142.8	2176.7	2207.4	2233.9	2255.1	2251.9
10°	2067.7	2073.0	2086.7	2116.4	2157.7	2205.3	2252.9	2298.5	2336.6	2364.1	2373.6
12.5°	2096.3	2100.5	2125.9	2170.4	2229.7	2288.9	2342.9	2399.1	2452.0	2498.6	2498.6
15°	2146.0	2153.4	2185.2	2249.8	2322.8	2391.6	2446.7	2506.0	2563.2	2616.1	2632.0
17.5°	2214.8	2225.4	2273.1	2355.6	2448.8	2512.3	2564.2	2612.9	2662.7	2713.5	2720.9
20°	2309.1	2319.6	2383.2	2482.7	2592.8	2669.0	2704.0	2715.6	2740.0	2788.7	2795.0
22.5°	2437.2	2447.8	2518.7	2630.9	2753.7	2836.3	2851.1	2823.6	2817.2	2855.4	2859.6
25°	2582.2	2591.7	2673.3	2794.0	2921.0	3011.0	3006.8	2939.0	2900.9	2924.2	2930.5
27.5°	2745.3	2759.0	2841.6	2966.5	3104.2	3183.6	3170.9	3072.4	2990.9	2986.6	2988.8
30°	2953.8	2968.6	3047.0	3166.6	3302.1	3375.2	3348.7	3216.4	3090.4	3048.0	3048.0
32.5°	3174.0	3211.1	3290.5	3415.4	3521.3	3574.2	3534.0	3375.2	3207.9	3148.6	3145.4
35°	3460.9	3481.1	3559.4	3681.2	3760.6	3801.9	3724.6	3554.1	3361.4	3291.5	3282.0
37.5°	3741.5	3758.4	3849.5	3966.0	4062.3	4060.2	3955.4	3766.9	3552.0	3473.6	3467.3
40°	4028.4	4046.4	4150.2	4257.1	4353.4	4345.0	4217.9	4007.2	3778.6	3690.7	3707.6
42.5°	4277.2	4297.3	4414.8	4567.3	4654.1	4652.0	4504.8	4267.7	4029.5	3951.1	3966.0
45°	4503.8	4521.8	4658.4	4833.0	4960.1	4976.0	4815.0	4564.1	4319.6	4219.0	4223.2
47.5°	4663.6	4697.5	4840.5	5040.5	5213.1	5269.2	5111.5	4865.9	4584.2	4479.4	4485.8
50°	4785.4	4806.6	4962.2	5189.8	5407.9	5524.4	5397.3	5145.4	4848.9	4737.8	4752.6
52.5°	4800.2	4825.6	4995.0	5257.6	5537.1	5713.9	5651.4	5418.5	5118.9	5004.6	5036.3
55°	4679.5	4694.3	4896.6	5215.2	5587.9	5854.7	5870.6	5672.6	5376.2	5289.3	5310.5
57.5°	4335.4	4373.6	4629.8	5017.3	5518.0	5929.9	6034.7	5903.4	5636.6	5550.8	5584.7
60°	3771.1	3809.3	4066.5	4557.8	5254.4	5894.9	6170.2	6107.7	5872.7	5803.9	5821.9
62.5°	2954.9	2951.7	3270.4	3872.8	4730.3	5723.4	6270.8	6304.7	6105.6	6018.8	6046.3
65°	1915.2	1924.7	2232.8	2881.8	3939.5	5287.2	6293.0	6555.6	6334.3	6203.0	6223.1
66°	1540.4	1569.0	1830.5	2428.7	3536.1	5001.4	6226.3	6629.7	6404.2	6245.4	6254.9
67.5°	1137.1	1131.8	1346.7	1808.3	2823.6	4458.3	6017.7	6676.3	6483.6	6283.5	6287.7
70°	649.0	647.9	724.2	993.1	1660.1	3139.1	5072.3	6452.9	6644.5	6421.1	6409.5
72.5°	474.3	471.1	481.7	548.4	809.9	1584.9	3499.1	5639.8	6561.9	6398.9	6366.1
75°	398.1	396.0	393.8	402.3	454.2	717.8	1857.0	4057.0	5693.8	6006.1	5972.2
77.5°	325.0	325.0	326.1	324.0	326.1	378.0	769.7	2174.6	3467.3	3870.7	3964.9
80°	254.1	253.0	271.0	263.6	246.7	242.4	340.9	699.8	1150.8	1144.5	944.4
82.5°	187.4	174.7	206.4	201.2	182.1	154.6	199.0	298.6	384.3	249.9	185.3
85°	118.6	117.5	146.1	133.4	111.2	73.1	95.3	128.1	158.8	96.3	78.3
87.5°	21.2	20.1	46.6	33.9	33.9	21.2	26.5	34.9	51.9	36.0	26.5
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)