

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: P453211

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453211
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-SA4B-727-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19423 lumens
Efficiency: N/A
Efficacy: 118.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

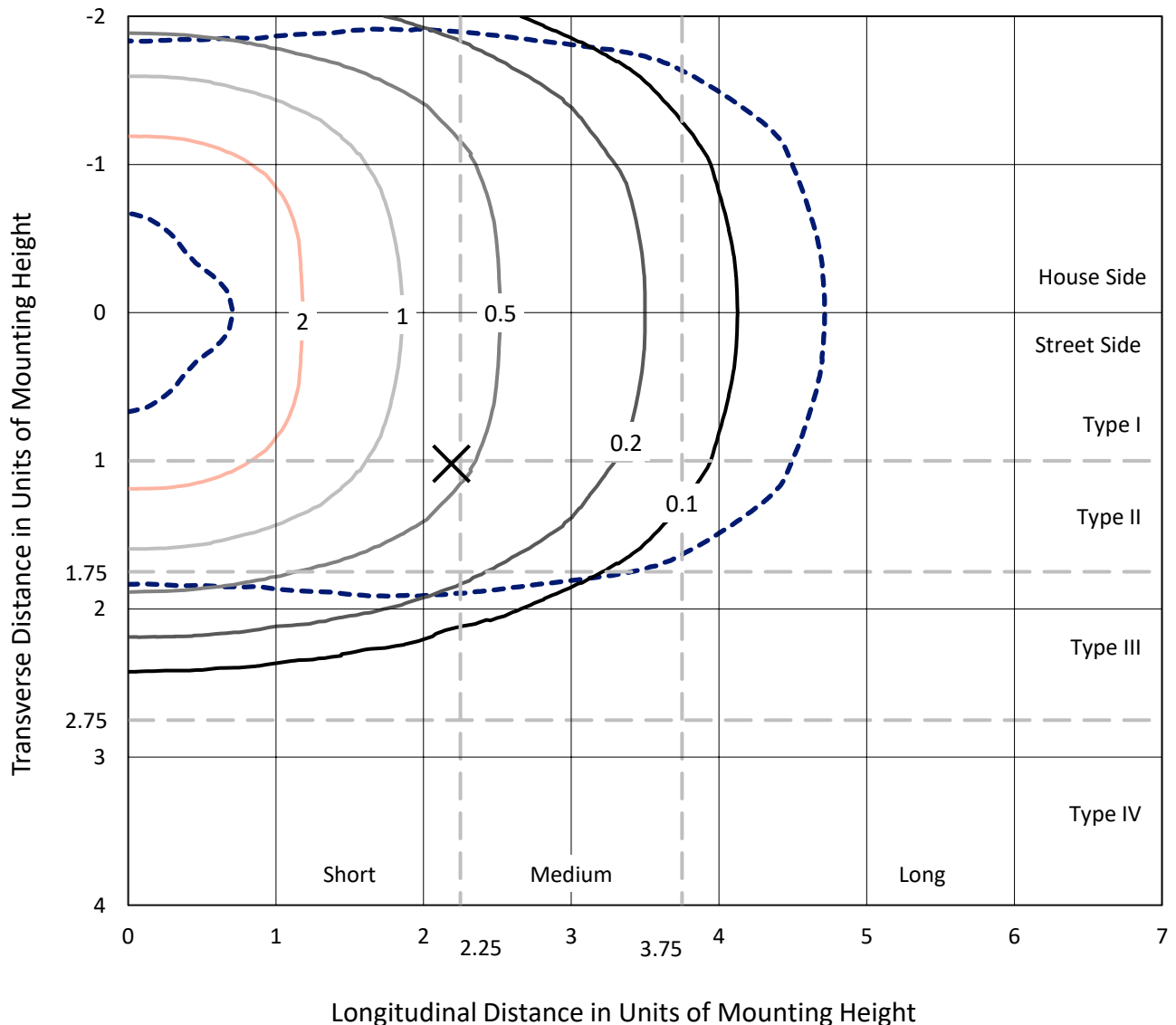
Input Watts (W): 164
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

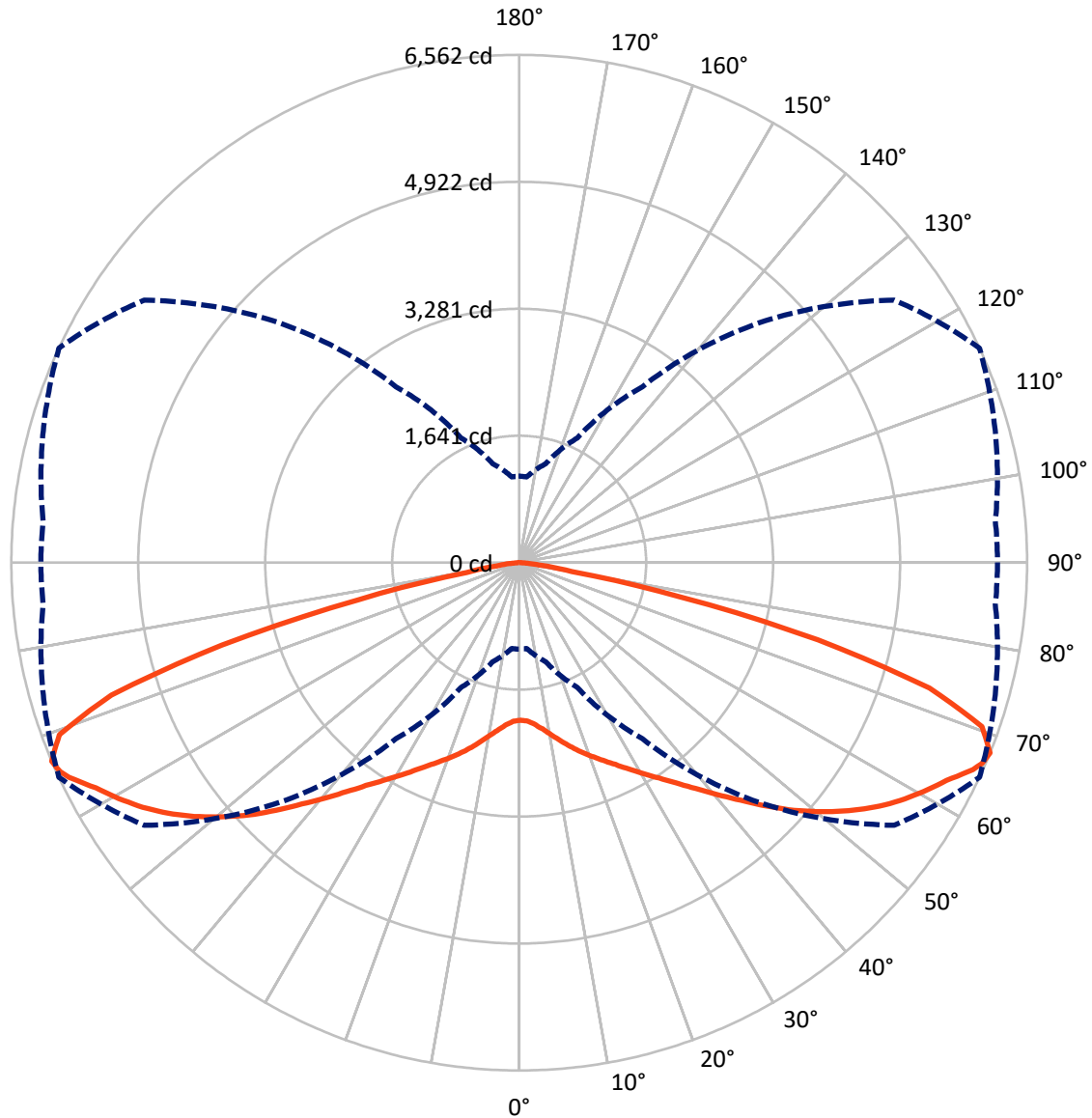
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 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	9711.5	0.0	9711.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9711.5	0.0	9711.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	19423.0	0.0	19423.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.6	1.0
10°-20°	671.5	3.5
20°-30°	1313.6	6.8
30°-40°	2234.2	11.5
40°-50°	3536.1	18.2
50°-60°	4688.8	24.1
60°-70°	4423.0	22.8
70°-80°	2186.5	11.3
80°-90°	168.5	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°	19423.0	100.0
0°-180°	19423.0	100.0

Coefficient of Utilization



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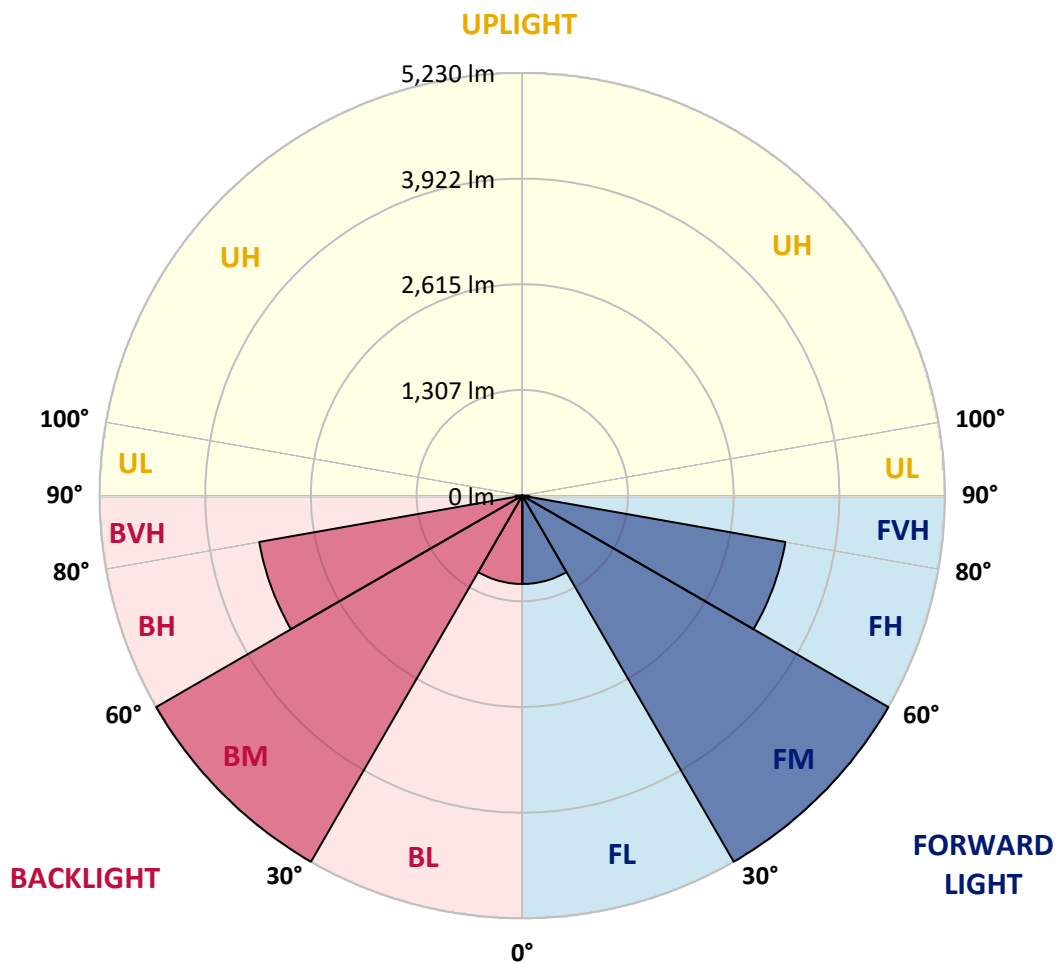
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1092.9	5.6			
FM	(30°-60°)	5229.6	26.9			
FH	(60°-80°)	3304.8	17.0			G2/5000
FVH	(80°-90°)	84.3	0.4			G1/100
BL	(0°-30°)	1092.9	5.6	B3/2500		
BM	(30°-60°)	5229.6	26.9	B4/8500		
BH	(60°-80°)	3304.8	17.0	B4/5000		G4/5000
BVH	(80°-90°)	84.3	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°	2034.4	2034.4	2034.4	2034.4	2034.4	2034.4	2034.4	2034.4	2034.4	2034.4	2034.4
2.5°	2024.0	2026.1	2028.1	2031.3	2035.4	2041.7	2045.8	2049.0	2057.3	2058.3	2057.3
5°	2016.7	2018.8	2024.0	2033.3	2046.9	2065.6	2080.2	2097.9	2111.4	2120.8	2118.7
7.5°	2015.7	2019.8	2028.1	2047.9	2073.9	2106.2	2139.5	2169.7	2195.7	2216.5	2213.4
10°	2032.3	2037.5	2051.0	2080.2	2120.8	2167.6	2214.4	2259.2	2296.6	2323.7	2333.0
12.5°	2060.4	2064.6	2089.5	2133.2	2191.5	2249.8	2302.9	2358.0	2410.0	2455.8	2455.8
15°	2109.3	2116.6	2147.8	2211.3	2283.1	2350.7	2404.8	2463.1	2519.3	2571.3	2587.0
17.5°	2177.0	2187.4	2234.2	2315.4	2406.9	2469.4	2520.4	2568.2	2617.1	2667.1	2674.4
20°	2269.6	2280.0	2342.4	2440.2	2548.4	2623.4	2657.7	2669.2	2693.1	2741.0	2747.2
22.5°	2395.5	2405.9	2475.6	2585.9	2706.6	2787.8	2802.4	2775.3	2769.1	2806.5	2810.7
25°	2538.0	2547.4	2627.5	2746.2	2871.0	2959.5	2955.3	2888.7	2851.3	2874.2	2880.4
27.5°	2698.3	2711.8	2793.0	2915.8	3051.1	3129.1	3116.6	3019.8	2939.7	2935.6	2937.6
30°	2903.3	2917.9	2994.9	3112.5	3245.7	3317.5	3291.4	3161.4	3037.5	2995.9	2995.9
32.5°	3119.7	3156.2	3234.2	3357.0	3461.1	3513.1	3473.5	3317.5	3153.0	3094.8	3091.6
35°	3401.7	3421.5	3498.5	3618.2	3696.2	3736.8	3660.9	3493.3	3303.9	3235.2	3225.9
37.5°	3677.5	3694.2	3783.6	3898.1	3992.8	3990.7	3887.7	3702.5	3491.2	3414.2	3408.0
40°	3959.5	3977.2	4079.2	4184.3	4279.0	4270.7	4145.8	3938.7	3713.9	3627.6	3644.2
42.5°	4204.1	4223.8	4339.3	4489.2	4574.5	4572.4	4427.8	4194.7	3960.6	3883.5	3898.1
45°	4426.7	4444.4	4578.7	4750.4	4875.2	4890.9	4732.7	4486.1	4245.7	4146.8	4151.0
47.5°	4583.9	4617.2	4757.7	4954.3	5124.0	5179.1	5024.1	4782.6	4505.8	4402.8	4409.1
50°	4703.5	4724.4	4877.3	5101.1	5315.4	5429.9	5305.0	5057.4	4766.0	4656.7	4671.3
52.5°	4718.1	4743.1	4909.6	5167.7	5442.4	5616.2	5554.8	5325.8	5031.3	4919.0	4950.2
55°	4599.5	4614.1	4812.8	5126.0	5492.3	5754.6	5770.2	5575.6	5284.2	5198.9	5219.7
57.5°	4261.3	4298.8	4550.6	4931.4	5423.6	5828.4	5931.5	5802.4	5540.2	5455.9	5489.2
60°	3706.6	3744.1	3997.0	4479.8	5164.5	5794.1	6064.7	6003.3	5772.3	5704.6	5722.3
62.5°	2904.3	2901.2	3214.4	3806.5	4649.4	5625.5	6163.5	6196.8	6001.2	5915.9	5942.9
65°	1882.5	1891.8	2194.6	2832.5	3872.1	5196.8	6185.4	6443.4	6226.0	6096.9	6116.7
66°	1514.1	1542.2	1799.2	2387.2	3475.6	4915.8	6119.8	6516.3	6294.6	6138.5	6147.9
67.5°	1117.6	1112.4	1323.7	1777.4	2775.3	4382.0	5914.8	6562.1	6372.7	6176.0	6180.2
70°	637.9	636.9	711.8	976.1	1631.7	3085.4	4985.6	6342.5	6530.9	6311.3	6299.8
72.5°	466.2	463.1	473.5	539.0	796.1	1557.8	3439.2	5543.3	6449.7	6289.4	6257.2
75°	391.3	389.2	387.1	395.4	446.4	705.5	1825.2	3987.6	5596.4	5903.4	5870.1
77.5°	319.5	319.5	320.5	318.4	320.5	371.5	756.5	2137.4	3408.0	3804.5	3897.1
80°	249.7	248.7	266.4	259.1	242.5	238.3	335.1	687.8	1131.1	1124.9	928.2
82.5°	184.2	171.7	202.9	197.7	179.0	151.9	195.6	293.5	377.7	245.6	182.1
85°	116.5	115.5	143.6	131.1	109.3	71.8	93.7	125.9	156.1	94.7	77.0
87.5°	20.8	19.8	45.8	33.3	33.3	20.8	26.0	34.3	51.0	35.4	26.0
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)