

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: P453206

Luminaire Tested: **GALN-SA4B-727-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453206
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)
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-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19744 lumens
Efficiency: N/A
Efficacy: 120.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

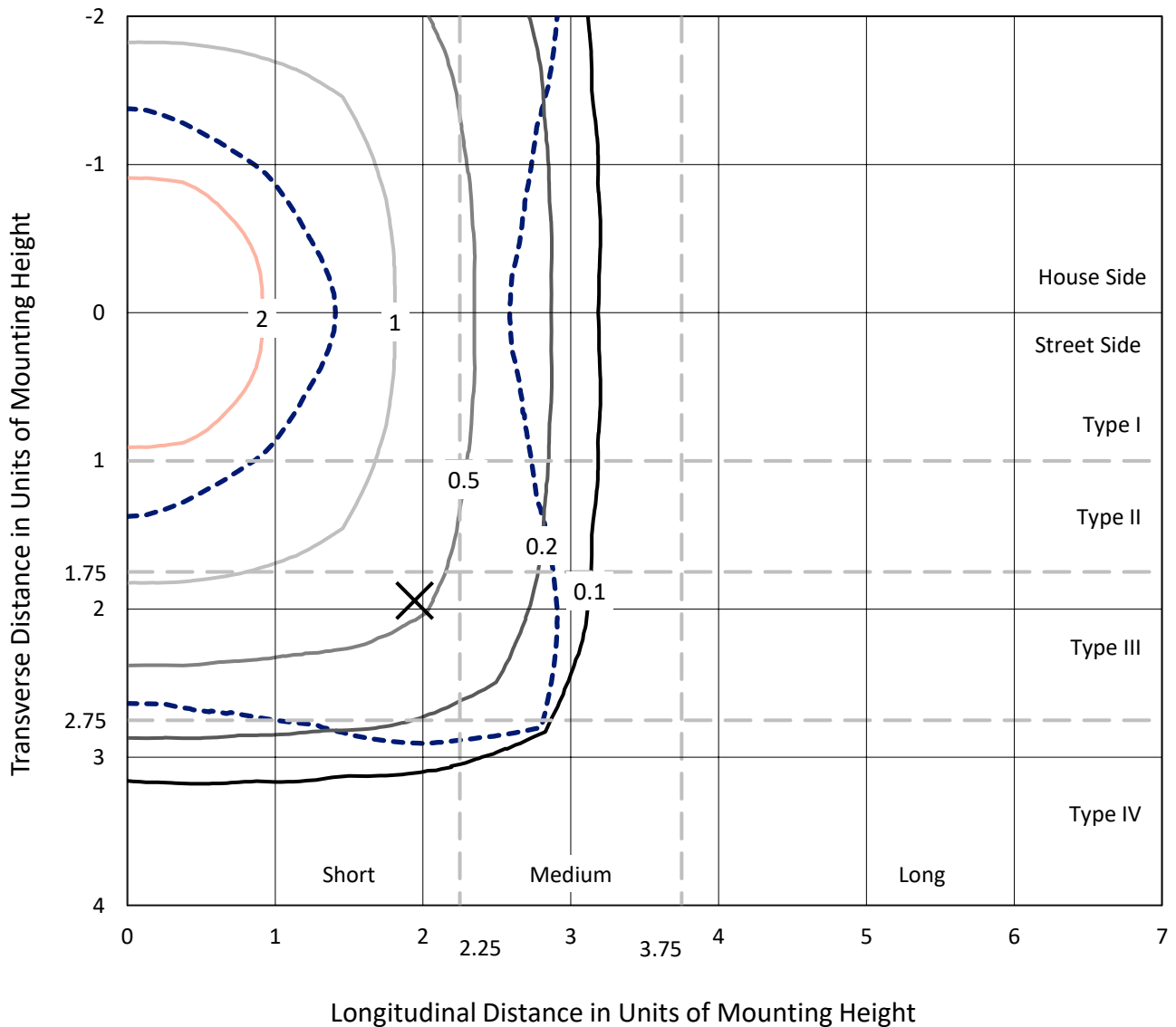
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

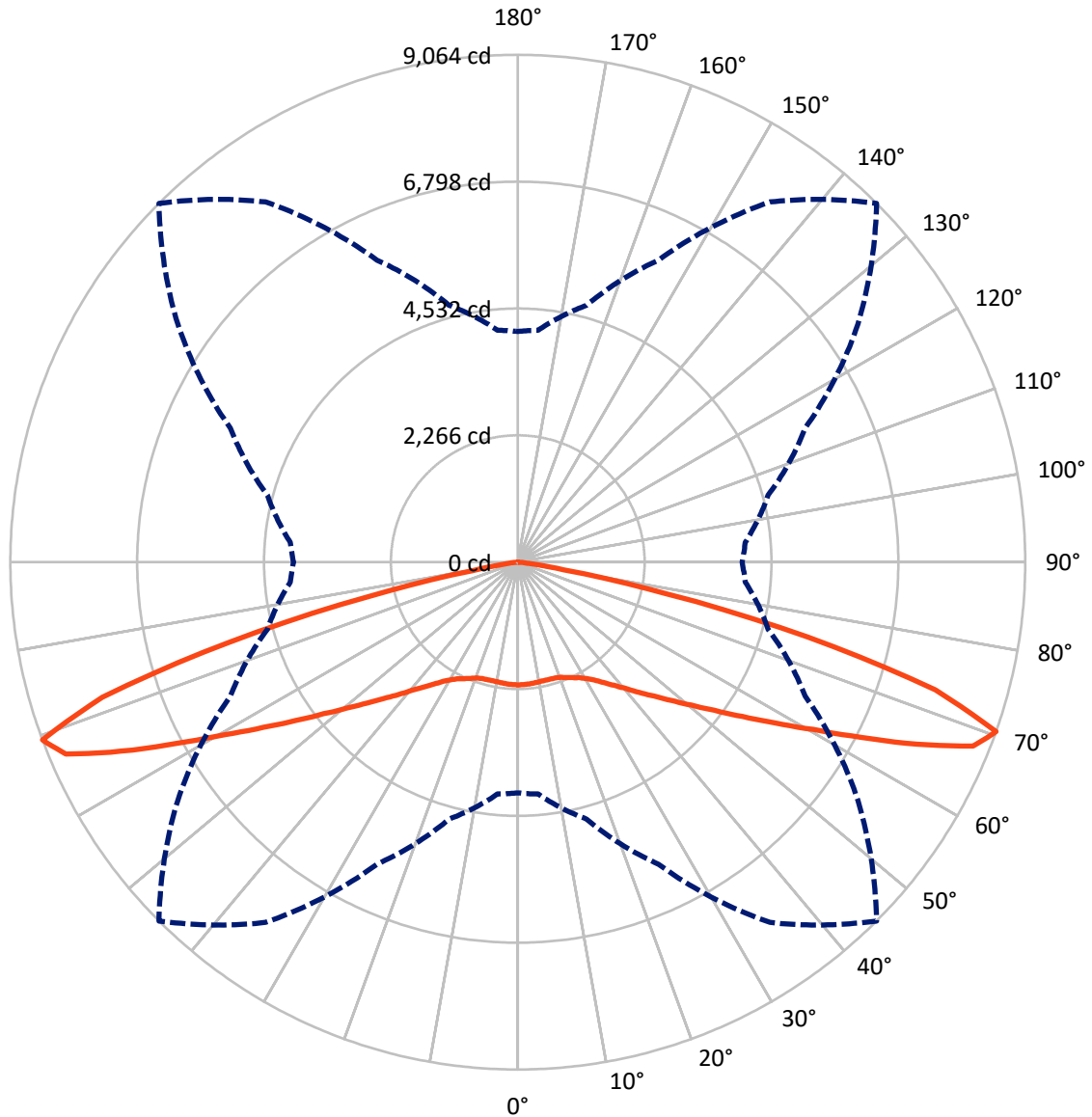
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9872.0	0.0	9872.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9872.0	0.0	9872.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	19744.0	0.0	19744.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.9	1.1
10°-20°	610.1	3.1
20°-30°	1043.4	5.3
30°-40°	1656.2	8.4
40°-50°	2671.9	13.5
50°-60°	4347.2	22.0
60°-70°	6301.8	31.9
70°-80°	2795.3	14.2
80°-90°	110.2	0.6
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°	19744.0	100.0
0°-180°	19744.0	100.0



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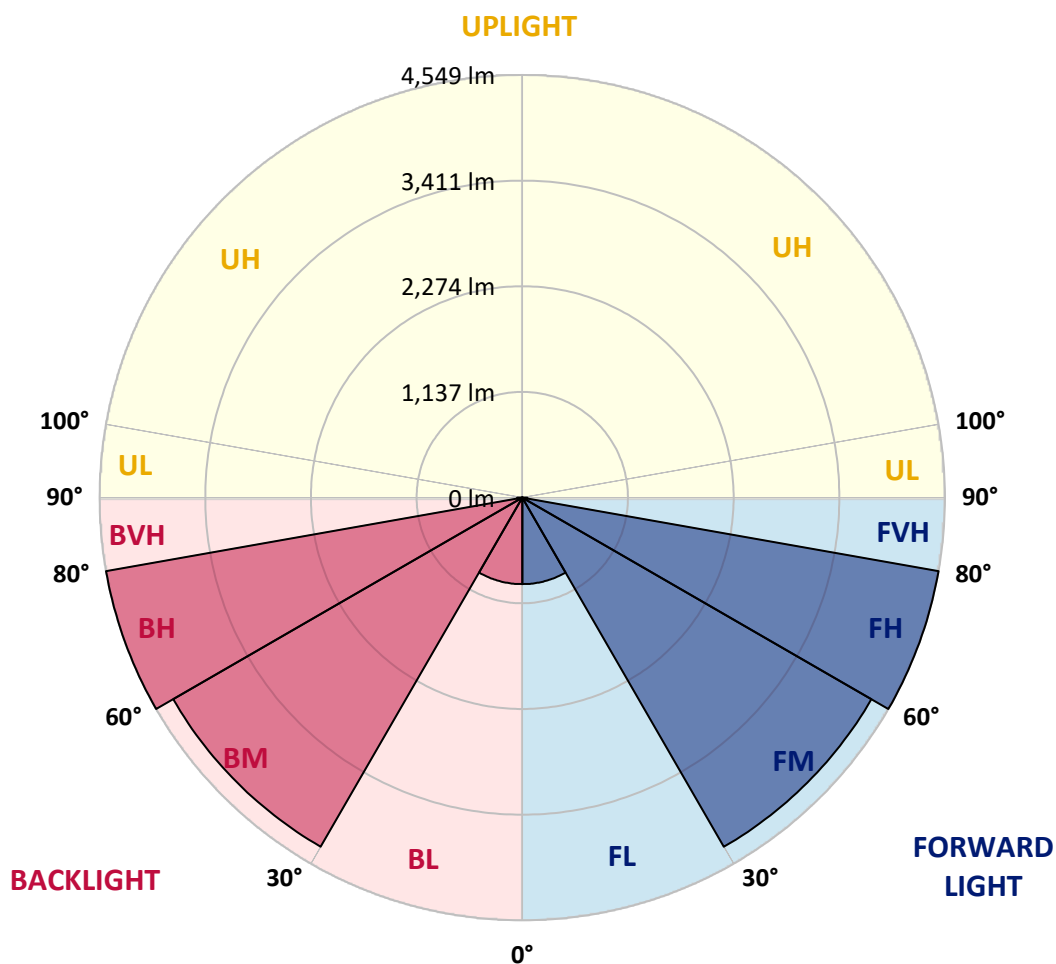
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	930.7	4.7			
FM	(30°-60°)	4337.6	22.0			
FH	(60°-80°)	4548.5	23.0			G2/5000
FVH	(80°-90°)	55.1	0.3			G1/100
BL	(0°-30°)	930.7	4.7	B2/1000		
BM	(30°-60°)	4337.6	22.0	B3/5000		
BH	(60°-80°)	4548.5	23.0	B4/5000		G2/5000
BVH	(80°-90°)	55.1	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2192.5	2192.5	2192.5	2192.5	2192.5	2192.5	2192.5	2192.5	2192.5	2192.5	2192.5
2.5°	2192.5	2194.6	2191.4	2189.4	2188.3	2188.3	2187.3	2188.3	2194.6	2195.6	2192.5
5°	2186.2	2188.3	2187.3	2185.2	2184.2	2184.2	2183.1	2182.1	2187.3	2189.4	2188.3
7.5°	2177.9	2179.0	2177.9	2176.9	2177.9	2176.9	2173.7	2171.7	2175.8	2175.8	2174.8
10°	2163.3	2165.4	2164.4	2165.4	2167.5	2167.5	2163.3	2159.2	2160.2	2158.1	2158.1
12.5°	2145.7	2148.8	2149.8	2154.0	2159.2	2159.2	2156.1	2146.7	2144.6	2143.6	2142.5
15°	2134.2	2137.3	2141.5	2145.7	2155.0	2155.0	2155.0	2140.4	2136.3	2132.1	2130.0
17.5°	2131.1	2135.2	2141.5	2147.7	2160.2	2160.2	2162.3	2147.7	2137.3	2131.1	2129.0
20°	2139.4	2142.5	2151.9	2163.3	2181.0	2181.0	2183.1	2167.5	2151.9	2142.5	2139.4
22.5°	2156.1	2161.3	2172.7	2193.5	2218.5	2218.5	2222.7	2196.6	2171.7	2159.2	2155.0
25°	2192.5	2196.6	2210.2	2238.3	2267.4	2267.4	2269.5	2239.3	2205.0	2188.3	2183.1
27.5°	2247.6	2253.9	2268.4	2301.7	2325.7	2325.7	2324.6	2303.8	2278.8	2261.2	2257.0
30°	2325.7	2333.0	2354.8	2390.2	2405.8	2405.8	2406.8	2393.3	2375.6	2356.9	2352.7
32.5°	2430.8	2434.9	2459.9	2493.2	2507.8	2507.8	2503.6	2497.4	2468.2	2437.0	2434.9
35°	2548.4	2555.6	2585.8	2625.4	2638.9	2638.9	2627.4	2618.1	2583.7	2558.8	2558.8
37.5°	2704.4	2707.6	2736.7	2781.4	2796.0	2796.0	2785.6	2777.3	2740.9	2708.6	2709.6
40°	2887.6	2893.8	2918.8	2970.8	2970.8	2965.6	2969.8	2963.5	2927.1	2895.9	2896.9
42.5°	3105.1	3108.2	3138.4	3193.5	3189.3	3178.9	3183.1	3174.8	3151.9	3116.5	3104.0
45°	3337.1	3349.6	3401.6	3454.7	3446.4	3413.1	3429.7	3427.6	3406.8	3353.8	3356.9
47.5°	3617.0	3637.8	3687.8	3751.2	3741.9	3689.9	3708.6	3721.1	3691.9	3633.7	3623.3
50°	3932.3	3945.8	4019.7	4079.0	4070.7	4015.6	4058.2	4060.3	3987.5	3905.3	3905.3
52.5°	4268.4	4281.9	4381.8	4474.4	4479.6	4399.5	4433.9	4431.8	4313.2	4204.9	4184.1
55°	4645.1	4651.3	4780.4	4916.7	4945.8	4867.8	4871.9	4830.3	4676.3	4550.4	4539.0
57.5°	5034.3	5057.2	5199.7	5376.6	5463.0	5415.1	5393.3	5281.9	5133.1	4988.5	4981.2
60°	5465.1	5466.1	5651.3	5860.5	6035.3	6067.6	5978.1	5829.3	5636.8	5445.3	5437.0
62.5°	5763.7	5808.5	6042.6	6396.4	6709.6	6890.6	6654.4	6342.3	5963.5	5654.5	5623.2
65°	5825.1	5855.3	6212.2	6811.6	7451.5	7841.7	7295.4	6631.5	5985.4	5573.3	5552.5
67.5°	5328.8	5361.0	5841.8	6761.6	7971.8	8772.0	7711.7	6492.1	5614.9	5105.0	5064.4
70°	4121.7	4158.1	4752.3	5952.1	7856.3	9064.4	7415.1	5662.8	4630.5	4080.1	4006.2
72.5°	2191.4	2325.7	2833.5	4085.3	6376.6	7804.3	6080.0	4132.1	2986.4	2441.2	2343.4
75°	800.2	816.8	1099.9	1811.6	3709.6	5351.6	3852.2	1970.8	1133.2	875.1	830.4
77.5°	330.9	329.9	362.1	547.3	1347.5	2740.9	1503.6	578.6	361.1	334.0	329.9
80°	195.6	195.6	215.4	227.9	354.8	827.3	396.5	258.1	216.4	197.7	200.8
82.5°	87.4	92.6	136.3	143.6	171.7	226.8	191.5	164.4	141.5	97.8	88.4
85°	47.9	41.6	71.8	74.9	82.2	84.3	90.5	89.5	82.2	47.9	48.9
87.5°	9.4	11.4	20.8	15.6	17.7	15.6	20.8	29.1	30.2	16.6	13.5
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)