

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: P453902

Luminaire Tested: **GALN-SA5A-727-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453902
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-SA5A-727-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20088 lumens
Efficiency: N/A
Efficacy: 130.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

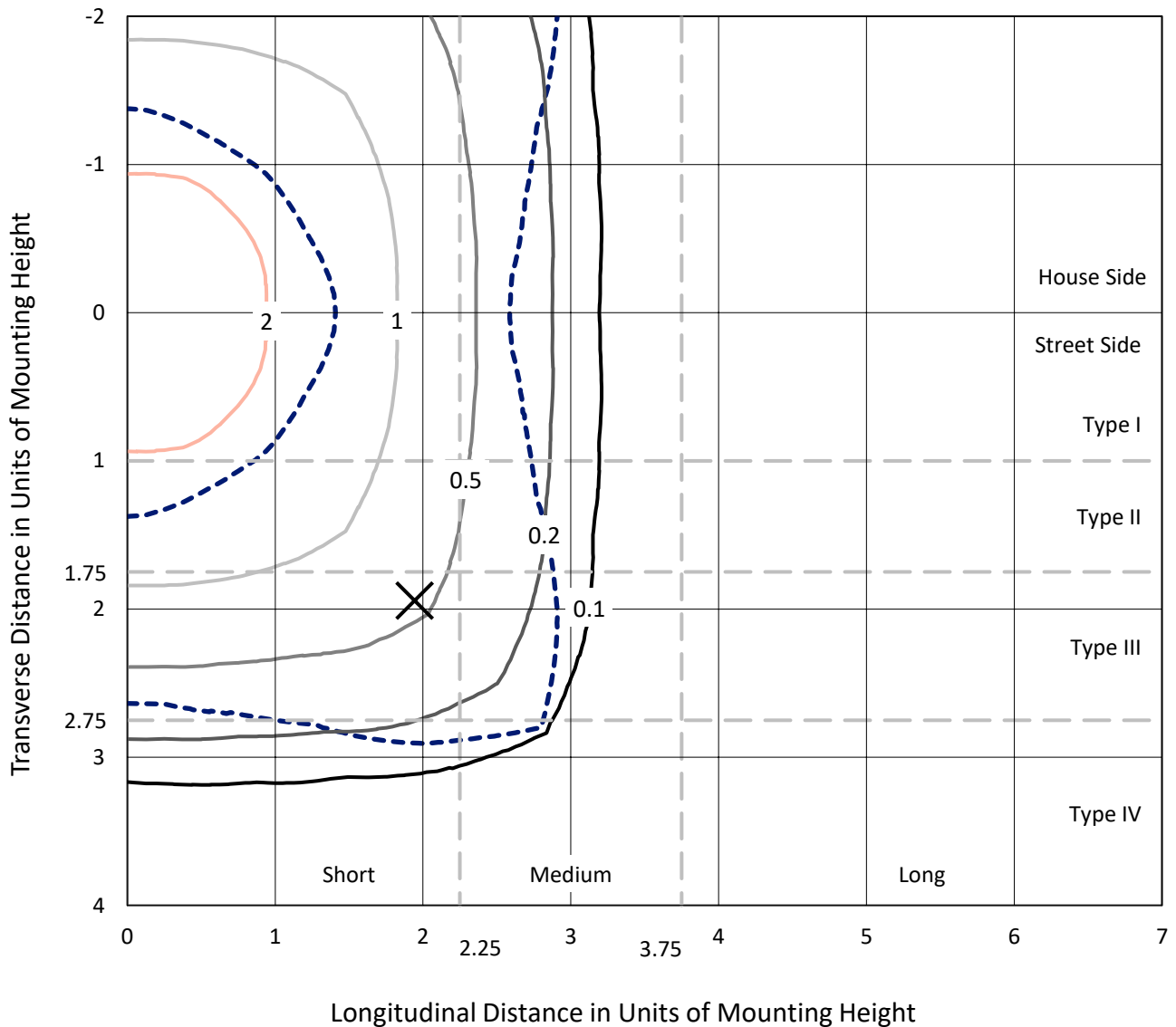
Input Watts (W): 154
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

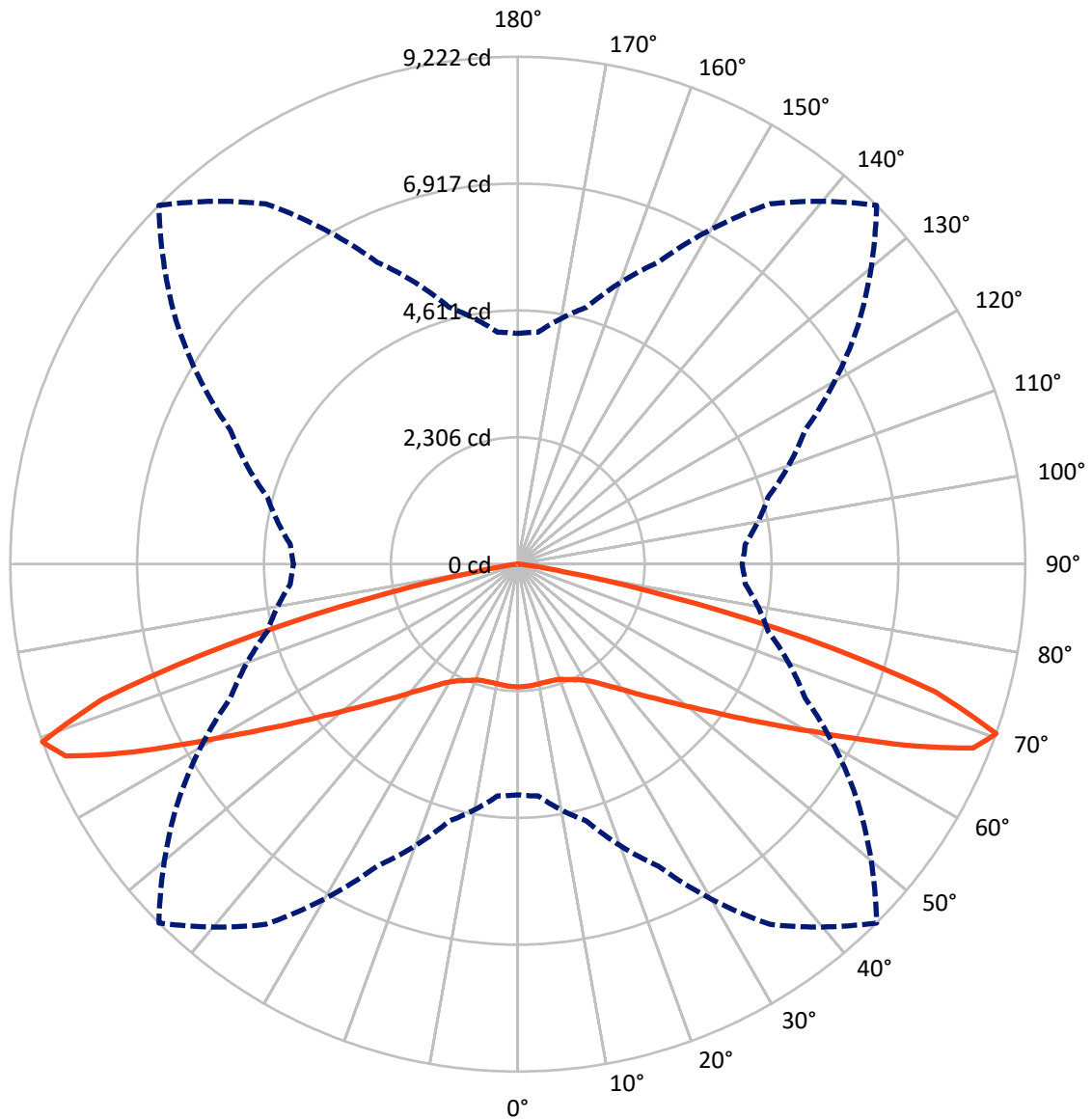
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 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	10044.0	0.0	10044.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10044.0	0.0	10044.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	20088.0	0.0	20088.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.5	1.1
10°-20°	620.7	3.1
20°-30°	1061.6	5.3
30°-40°	1685.0	8.4
40°-50°	2718.4	13.5
50°-60°	4422.9	22.0
60°-70°	6411.6	31.9
70°-80°	2844.0	14.2
80°-90°	112.2	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°	20088.0	100.0
0°-180°	20088.0	100.0

Coefficient of Utilization



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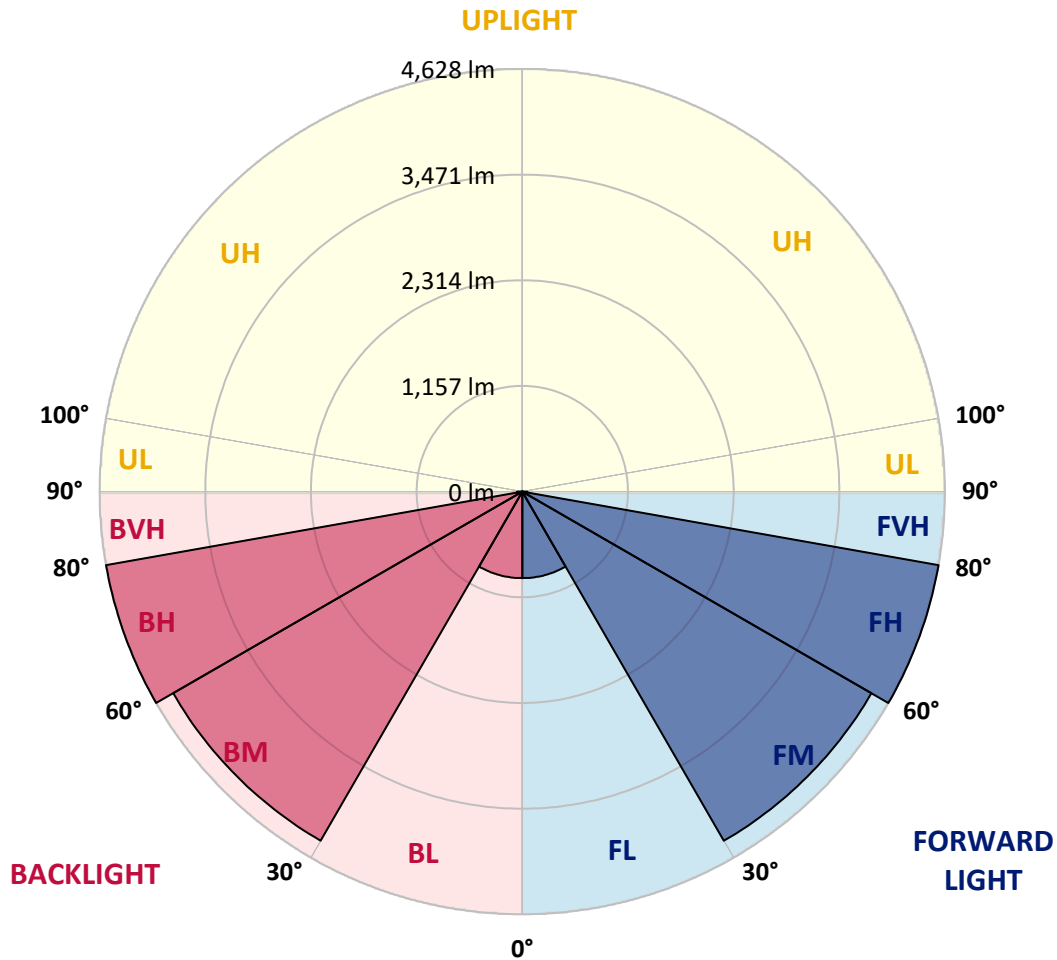
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	946.9	4.7			
FM (30°-60°)	4413.2	22.0			
FH (60°-80°)	4627.8	23.0			G2/5000
FVH (80°-90°)	56.1	0.3			G1/100
BL (0°-30°)	946.9	4.7	B2/1000		
BM (30°-60°)	4413.2	22.0	B3/5000		
BH (60°-80°)	4627.8	23.0	B4/5000		G2/5000
BVH (80°-90°)	56.1	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°	2230.7	2230.7	2230.7	2230.7	2230.7	2230.7	2230.7	2230.7	2230.7	2230.7	2230.7
2.5°	2230.7	2232.8	2229.6	2227.5	2226.4	2226.4	2225.4	2226.4	2232.8	2233.9	2230.7
5°	2224.3	2226.4	2225.4	2223.3	2222.2	2222.2	2221.1	2220.1	2225.4	2227.5	2226.4
7.5°	2215.9	2216.9	2215.9	2214.8	2215.9	2214.8	2211.6	2209.5	2213.7	2213.7	2212.7
10°	2201.0	2203.2	2202.1	2203.2	2205.3	2205.3	2201.0	2196.8	2197.9	2195.7	2195.7
12.5°	2183.0	2186.2	2187.3	2191.5	2196.8	2203.2	2193.6	2184.1	2182.0	2180.9	2179.9
15°	2171.4	2174.6	2178.8	2183.0	2192.6	2206.3	2192.6	2177.7	2173.5	2169.3	2167.2
17.5°	2168.2	2172.4	2178.8	2185.2	2197.9	2211.6	2200.0	2185.2	2174.6	2168.2	2166.1
20°	2176.7	2179.9	2189.4	2201.0	2219.0	2232.8	2221.1	2205.3	2189.4	2179.9	2176.7
22.5°	2193.6	2198.9	2210.6	2231.7	2257.1	2277.3	2261.4	2234.9	2209.5	2196.8	2192.6
25°	2230.7	2234.9	2248.7	2277.3	2306.9	2326.0	2309.0	2278.3	2243.4	2226.4	2221.1
27.5°	2286.8	2293.1	2308.0	2341.8	2366.2	2376.8	2365.1	2344.0	2318.5	2300.6	2296.3
30°	2366.2	2373.6	2395.8	2431.8	2447.7	2454.1	2448.8	2435.0	2417.0	2398.0	2393.7
32.5°	2473.1	2477.4	2502.8	2536.6	2551.5	2553.6	2547.2	2540.9	2511.2	2479.5	2477.4
35°	2592.8	2600.2	2630.9	2671.1	2684.9	2685.9	2673.2	2663.7	2628.7	2603.3	2603.3
37.5°	2751.6	2754.7	2784.4	2829.9	2844.7	2840.5	2834.1	2825.7	2788.6	2755.8	2756.9
40°	2937.9	2944.2	2969.6	3022.6	3022.6	3017.3	3021.5	3015.2	2978.1	2946.4	2947.4
42.5°	3159.2	3162.3	3193.0	3249.1	3244.9	3234.3	3238.6	3230.1	3206.8	3170.8	3158.1
45°	3395.2	3408.0	3460.9	3514.9	3506.4	3472.5	3489.5	3487.4	3466.2	3412.2	3415.4
47.5°	3680.0	3701.2	3752.0	3816.6	3807.1	3754.1	3773.2	3785.9	3756.3	3697.0	3686.4
50°	4000.8	4014.6	4089.8	4150.1	4141.6	4085.5	4128.9	4131.0	4056.9	3973.3	3973.3
52.5°	4342.8	4356.5	4458.2	4552.4	4557.7	4476.2	4511.1	4509.0	4388.3	4278.2	4257.0
55°	4726.0	4732.4	4863.7	5002.4	5032.0	4952.6	4956.8	4914.5	4757.8	4629.7	4618.0
57.5°	5122.0	5145.3	5290.3	5470.3	5558.2	5509.5	5487.2	5374.0	5222.6	5075.4	5068.0
60°	5560.3	5561.3	5749.8	5962.6	6140.5	6173.3	6082.2	5930.8	5735.0	5540.2	5531.7
62.5°	5864.1	5909.7	6147.9	6507.8	6826.5	7010.7	6770.4	6452.8	6067.4	5753.0	5721.2
65°	5926.6	5957.3	6320.4	6930.2	7581.3	7978.4	7422.5	6747.1	6089.6	5670.4	5649.2
67.5°	5421.6	5454.4	5943.5	6879.4	8110.7	8924.8	7846.0	6605.2	5712.7	5194.0	5152.7
70°	4193.5	4230.6	4835.1	6055.8	7993.2	9222.3	7544.3	5761.4	4711.2	4151.2	4076.0
72.5°	2229.6	2366.2	2882.8	4156.5	6487.7	7940.2	6186.0	4204.1	3038.5	2483.7	2384.2
75°	814.1	831.1	1119.0	1843.2	3774.3	5444.9	3919.3	2005.2	1152.9	890.4	844.8
77.5°	336.7	335.6	368.4	556.9	1371.0	2788.6	1529.8	588.6	367.4	339.8	335.6
80°	199.0	199.0	219.2	231.9	361.0	841.7	403.4	262.6	220.2	201.2	204.3
82.5°	88.9	94.2	138.7	146.1	174.7	230.8	194.8	167.3	144.0	99.5	90.0
85°	48.7	42.3	73.1	76.2	83.6	85.8	92.1	91.0	83.6	48.7	49.8
87.5°	9.5	11.6	21.2	15.9	18.0	15.9	21.2	29.6	30.7	16.9	13.8
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)