

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: P452742

Luminaire Tested: **GALN-SA3D-727-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452742
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-SA3D-727-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20256 lumens
Efficiency: N/A
Efficacy: 110.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

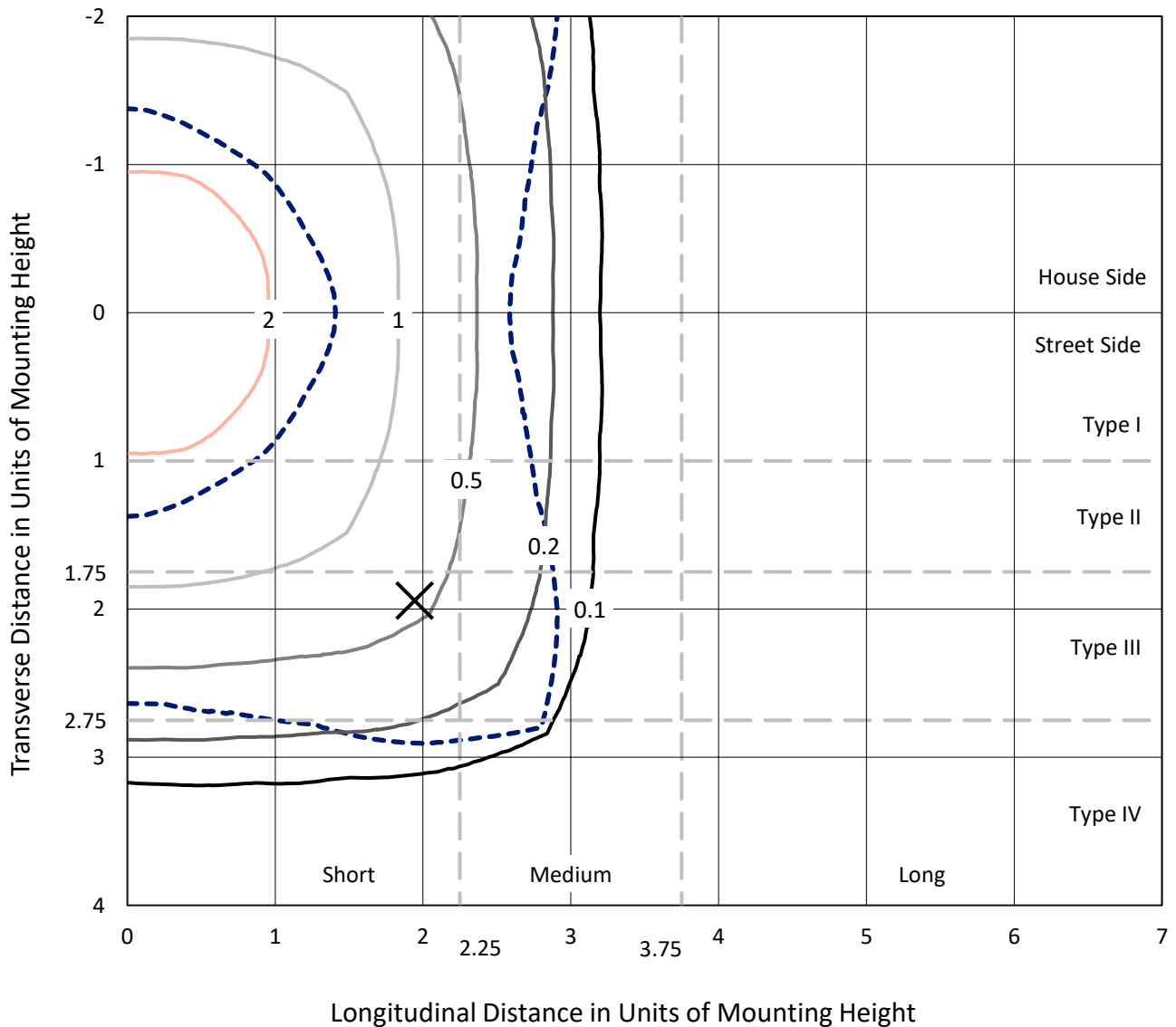
Input Watts (W): 184
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

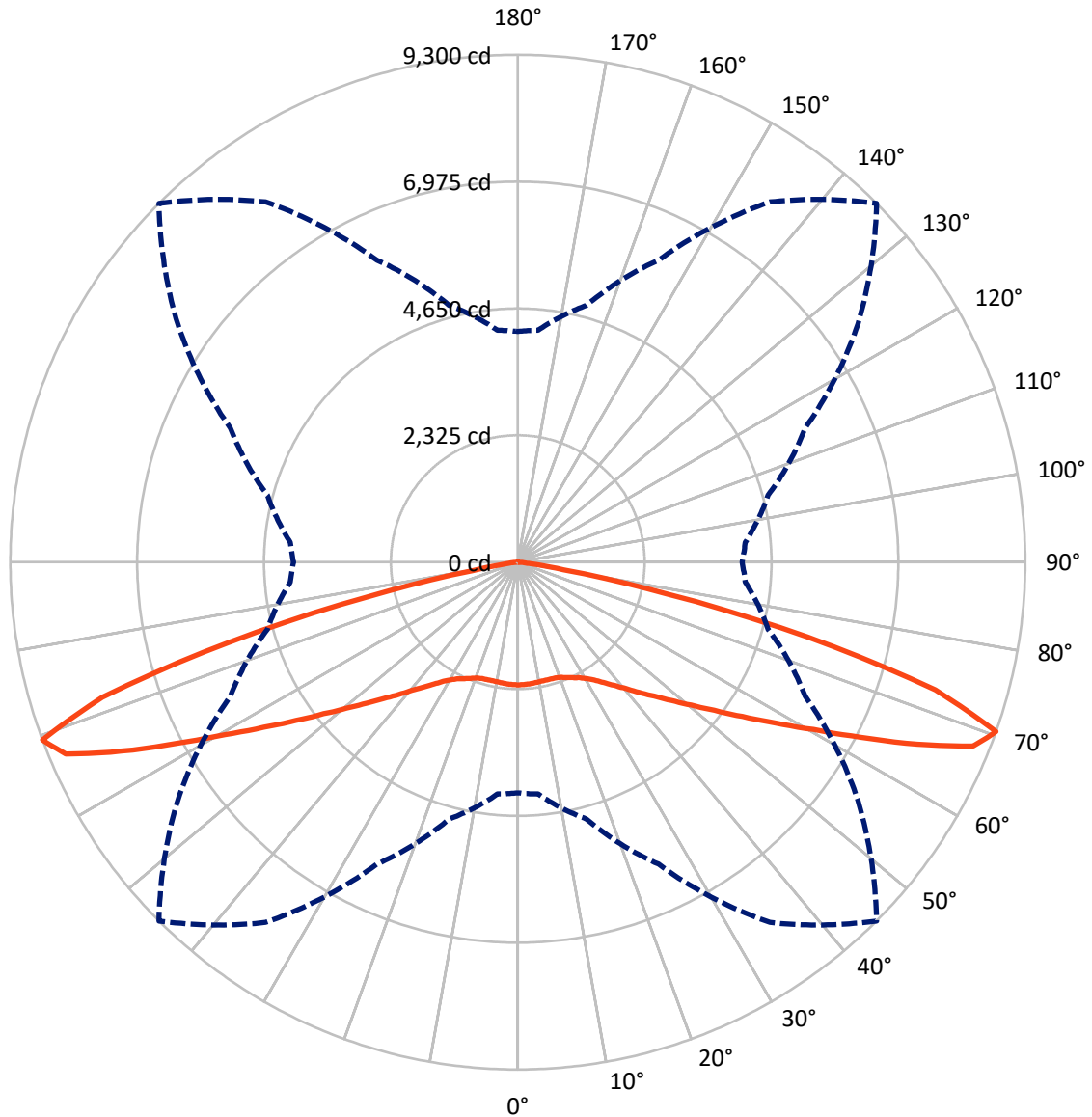
× Max cd
 - - - 1/2 Max cd



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	10128.0	0.0	10128.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10128.0	0.0	10128.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	20256.0	0.0	20256.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.3	1.1
10°-20°	625.9	3.1
20°-30°	1070.5	5.3
30°-40°	1699.1	8.4
40°-50°	2741.1	13.5
50°-60°	4459.9	22.0
60°-70°	6465.2	31.9
70°-80°	2867.7	14.2
80°-90°	113.1	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°	20256.0	100.0
0°-180°	20256.0	100.0

Coefficient of Utilization



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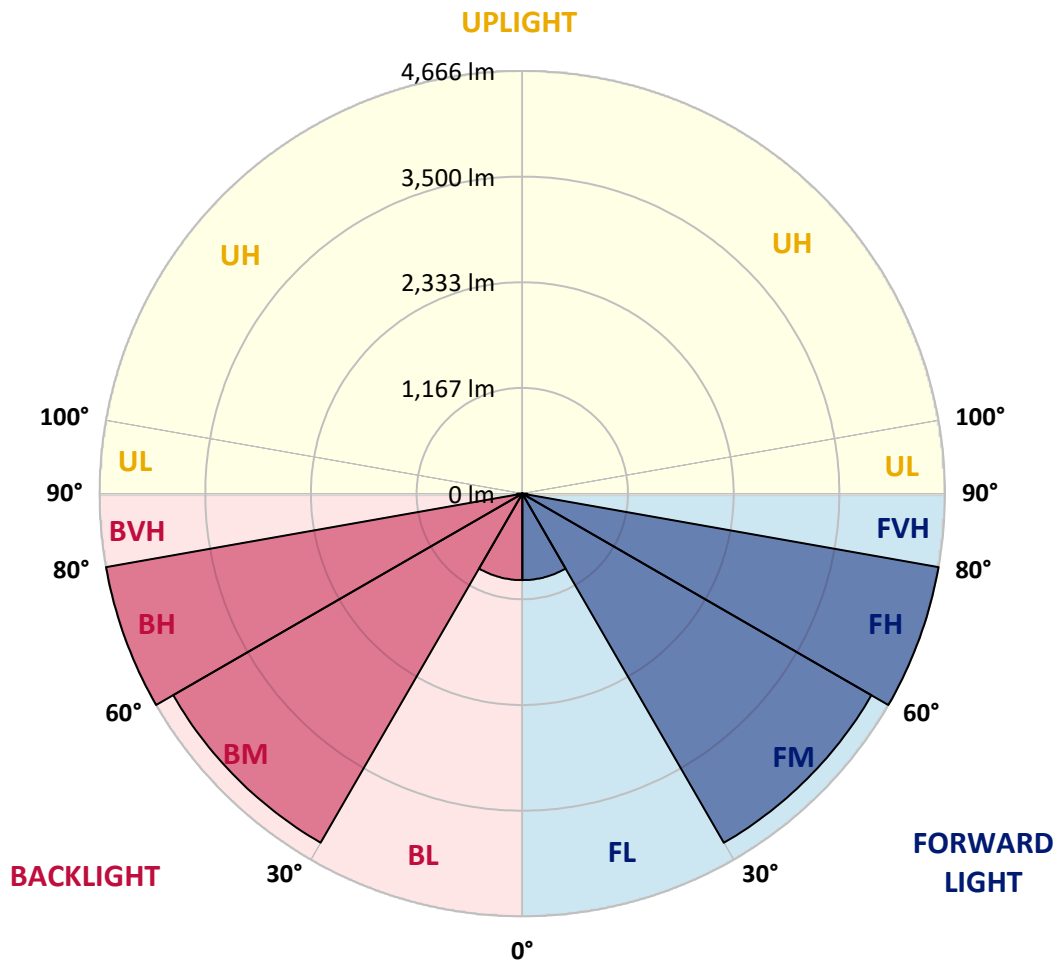
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	954.9	4.7			
FM (30°-60°)	4450.1	22.0			
FH (60°-80°)	4666.5	23.0			G2/5000
FVH (80°-90°)	56.6	0.3			G1/100
BL (0°-30°)	954.9	4.7	B2/1000		
BM (30°-60°)	4450.1	22.0	B3/5000		
BH (60°-80°)	4666.5	23.0	B4/5000		G2/5000
BVH (80°-90°)	56.6	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°	2249.3	2249.3	2249.3	2249.3	2249.3	2249.3	2249.3	2249.3	2249.3	2249.3	2249.3
2.5°	2249.3	2251.5	2248.3	2246.1	2245.1	2245.1	2244.0	2245.1	2251.5	2252.5	2249.3
5°	2242.9	2245.1	2244.0	2241.9	2240.8	2240.8	2239.7	2238.7	2244.0	2246.1	2245.1
7.5°	2234.4	2235.5	2234.4	2233.3	2234.4	2233.3	2230.1	2228.0	2232.3	2232.3	2231.2
10°	2219.4	2221.6	2220.5	2221.6	2223.7	2223.7	2219.4	2215.2	2216.2	2214.1	2214.1
12.5°	2201.3	2204.5	2205.6	2209.8	2215.2	2221.6	2212.0	2202.4	2200.2	2199.2	2198.1
15°	2189.6	2192.8	2197.0	2201.3	2210.9	2224.8	2210.9	2196.0	2191.7	2187.4	2185.3
17.5°	2186.3	2190.6	2197.0	2203.4	2216.2	2230.1	2218.4	2203.4	2192.8	2186.3	2184.2
20°	2194.9	2198.1	2207.7	2219.4	2237.6	2251.5	2239.7	2223.7	2207.7	2198.1	2194.9
22.5°	2212.0	2217.3	2229.0	2250.4	2276.0	2296.3	2280.3	2253.6	2228.0	2215.2	2210.9
25°	2249.3	2253.6	2267.5	2296.3	2326.2	2345.4	2328.3	2297.4	2262.1	2245.1	2239.7
27.5°	2305.9	2312.3	2327.3	2361.4	2386.0	2396.7	2384.9	2363.6	2337.9	2319.8	2315.5
30°	2386.0	2393.5	2415.9	2452.2	2468.2	2474.6	2469.2	2455.4	2437.2	2418.0	2413.7
32.5°	2493.8	2498.1	2523.7	2557.9	2572.8	2574.9	2568.5	2562.1	2532.2	2500.2	2498.1
35°	2614.4	2621.9	2652.9	2693.4	2707.3	2708.4	2695.6	2686.0	2650.7	2625.1	2625.1
37.5°	2774.6	2777.8	2807.7	2853.6	2868.5	2864.2	2857.8	2849.3	2811.9	2778.8	2779.9
40°	2962.5	2968.9	2994.5	3047.9	3047.9	3042.5	3046.8	3040.4	3003.0	2971.0	2972.1
42.5°	3185.6	3188.8	3219.7	3276.3	3272.0	3261.4	3265.6	3257.1	3233.6	3197.3	3184.5
45°	3423.6	3436.5	3489.8	3544.3	3535.7	3501.6	3518.7	3516.5	3495.2	3440.7	3443.9
47.5°	3710.8	3732.2	3783.4	3848.5	3838.9	3785.5	3804.8	3817.6	3787.7	3727.9	3717.2
50°	4034.3	4048.2	4124.0	4184.8	4176.3	4119.7	4163.5	4165.6	4090.9	4006.5	4006.5
52.5°	4379.1	4393.0	4495.5	4590.5	4595.8	4513.6	4548.8	4546.7	4425.0	4314.0	4292.6
55°	4765.6	4772.0	4904.3	5044.2	5074.1	4994.0	4998.3	4955.6	4797.6	4668.4	4656.7
57.5°	5164.8	5188.3	5334.6	5516.0	5604.7	5555.5	5533.1	5418.9	5266.2	5117.8	5110.4
60°	5606.8	5607.9	5797.9	6012.5	6191.8	6224.9	6133.1	5980.4	5782.9	5586.5	5578.0
62.5°	5913.2	5959.1	6199.3	6562.2	6883.6	7069.3	6827.0	6506.7	6118.1	5801.1	5769.1
65°	5976.2	6007.1	6373.3	6988.2	7644.7	8045.1	7484.6	6803.5	6140.6	5717.8	5696.5
67.5°	5466.9	5500.0	5993.2	6937.0	8178.5	8999.5	7911.6	6660.5	5760.5	5237.4	5195.8
70°	4228.6	4265.9	4875.5	6106.4	8060.0	9299.5	7607.4	5809.6	4750.6	4185.9	4110.1
72.5°	2248.3	2386.0	2906.9	4191.2	6542.0	8006.6	6237.7	4239.3	3063.9	2504.5	2404.1
75°	820.9	838.0	1128.4	1858.6	3805.8	5490.4	3952.1	2021.9	1162.6	897.8	851.9
77.5°	339.5	338.4	371.5	561.5	1382.5	2811.9	1542.6	593.6	370.4	342.7	338.4
80°	200.7	200.7	221.0	233.8	364.0	848.7	406.7	264.8	222.1	202.8	206.0
82.5°	89.7	95.0	139.8	147.3	176.1	232.7	196.4	168.7	145.2	100.3	90.7
85°	49.1	42.7	73.7	76.9	84.3	86.5	92.9	91.8	84.3	49.1	50.2
87.5°	9.6	11.7	21.4	16.0	18.1	16.0	21.4	29.9	31.0	17.1	13.9
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)