

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: P530643

Luminaire Tested: **GALN-SA5D-827-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530643
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5D-827-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14855 lumens
Efficiency: N/A
Efficacy: 48.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

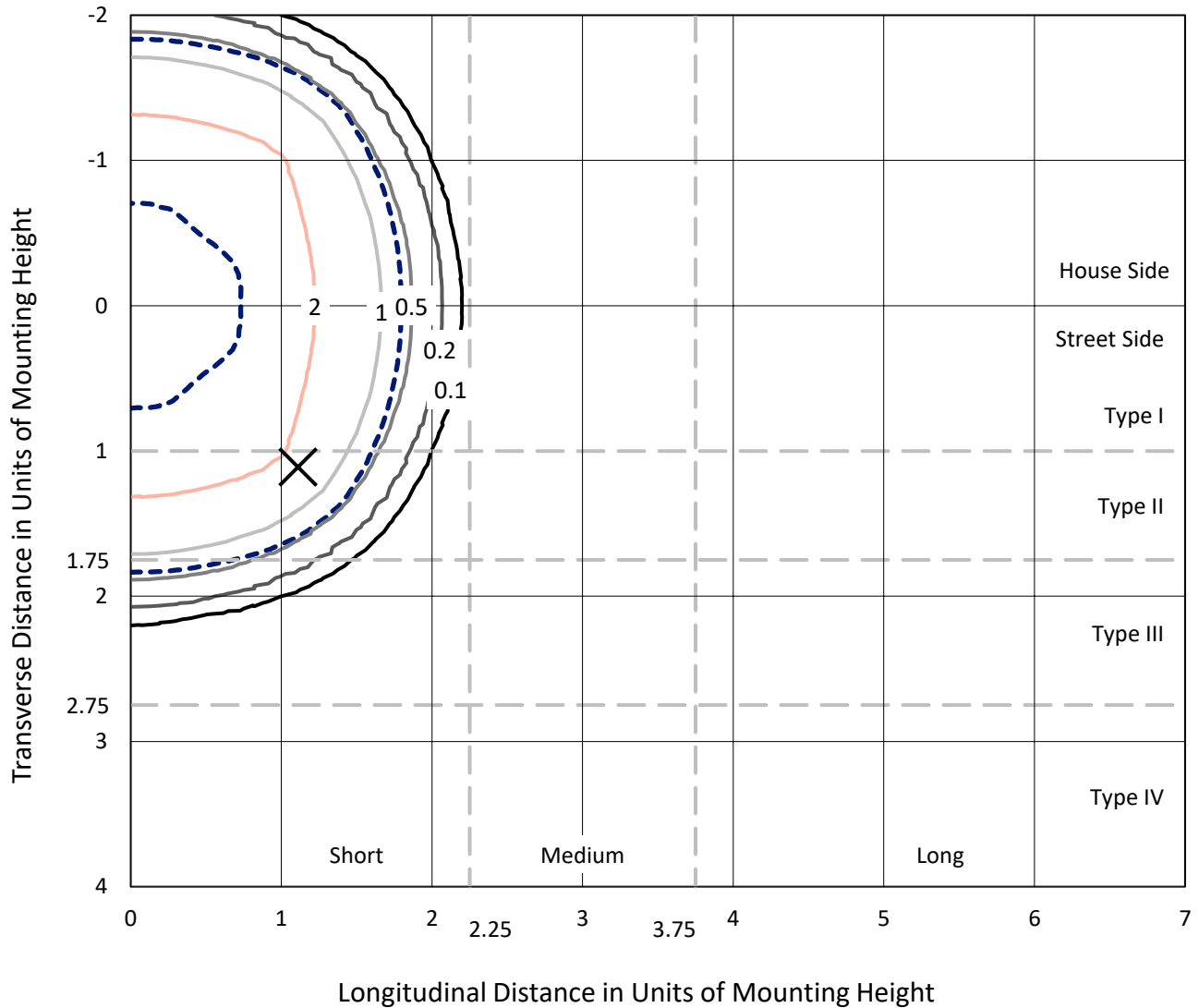
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

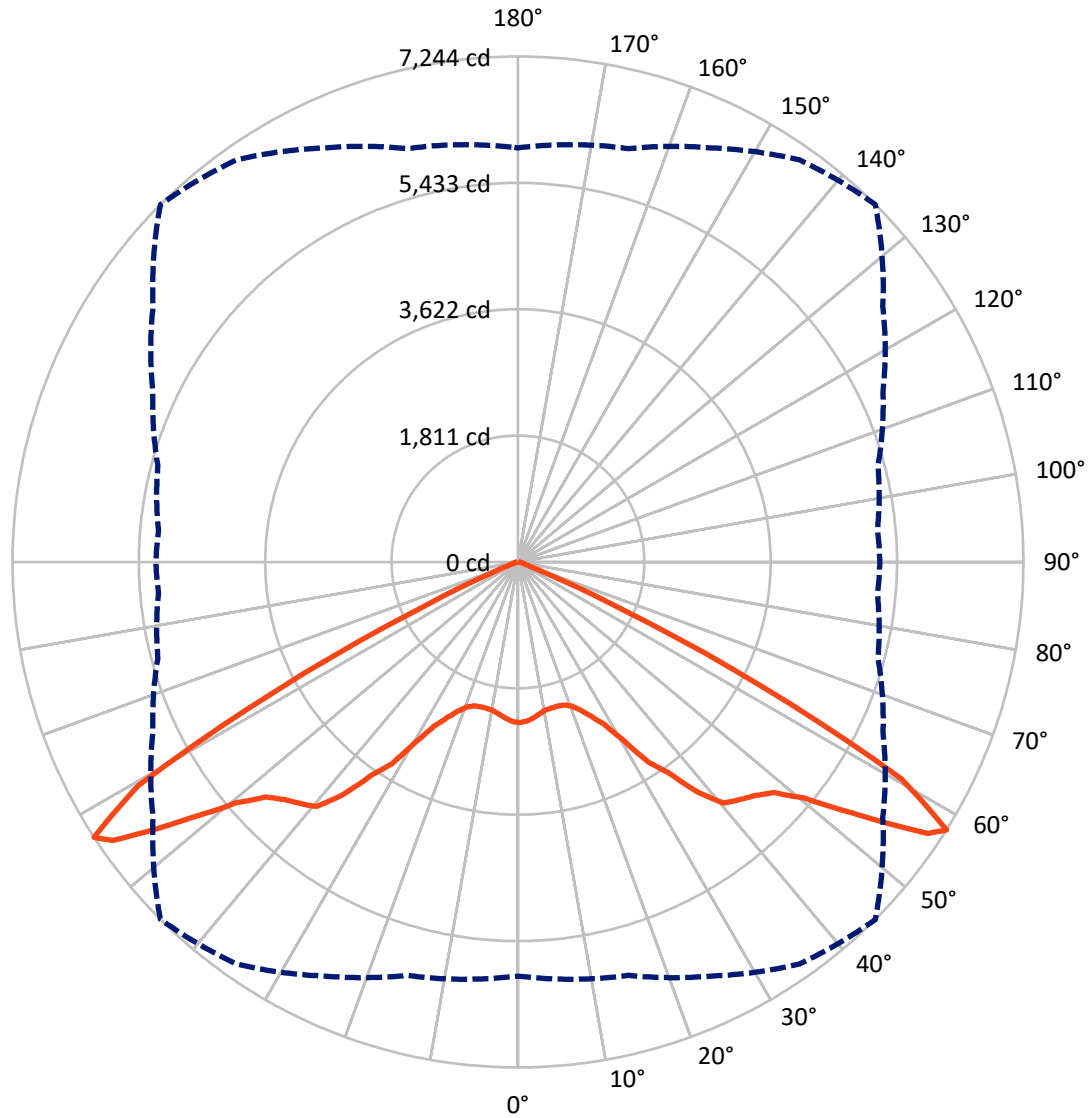
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7427.5	0.0	7427.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7427.5	0.0	7427.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	14855.0	0.0	14855.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.7	1.4
10°-20°	612.0	4.1
20°-30°	1129.7	7.6
30°-40°	2221.7	15.0
40°-50°	3618.6	24.4
50°-60°	5160.6	34.7
60°-70°	1786.7	12.0
70°-80°	95.8	0.6
80°-90°	18.0	0.1
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°	14855.0	100.0
0°-180°	14855.0	100.0

Coefficient of Utilization

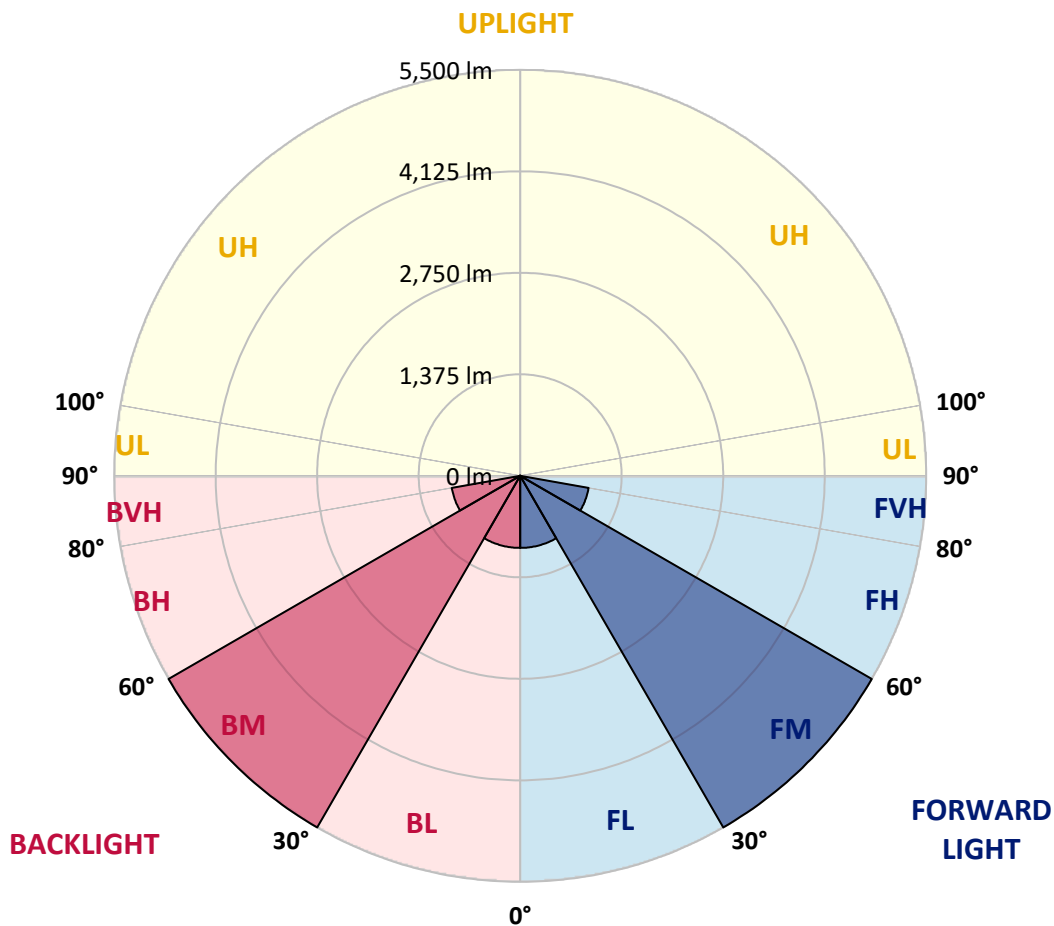


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	976.7	6.6			
FM (30°-60°)	5500.5	37.0			
FH (60°-80°)	941.3	6.3			G1/1800
FVH (80°-90°)	9.0	0.1			G0/10
BL (0°-30°)	976.7	6.6	B2/1000		
BM (30°-60°)	5500.5	37.0	B4/8500		
BH (60°-80°)	941.3	6.3	B2/1000		G1/1800
BVH (80°-90°)	9.0	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2304.2	2304.2	2304.2	2304.2	2304.2	2304.2	2304.2	2304.2	2304.2	2304.2	2304.2
2.5°	2298.0	2310.4	2294.9	2288.7	2285.6	2285.6	2276.3	2276.3	2273.2	2276.3	2263.9
5°	2260.8	2273.2	2273.2	2270.1	2251.5	2248.4	2239.1	2232.9	2236.0	2223.6	2232.9
7.5°	2223.6	2232.9	2220.5	2217.5	2211.3	2198.9	2195.8	2167.9	2171.0	2171.0	2177.2
10°	2217.5	2214.4	2195.8	2180.3	2161.7	2158.6	2149.3	2143.1	2143.1	2140.0	2149.3
12.5°	2217.5	2202.0	2198.9	2164.8	2133.8	2146.2	2121.4	2106.0	2127.6	2133.8	2146.2
15°	2214.4	2229.8	2177.2	2161.7	2140.0	2143.1	2121.4	2106.0	2118.3	2124.5	2133.8
17.5°	2232.9	2223.6	2208.2	2177.2	2167.9	2155.5	2127.6	2115.2	2115.2	2130.7	2133.8
20°	2282.5	2257.7	2226.7	2211.3	2220.5	2205.1	2171.0	2124.5	2136.9	2149.3	2158.6
22.5°	2328.9	2310.4	2288.7	2279.4	2332.0	2307.3	2248.4	2195.8	2177.2	2198.9	2214.4
25°	2418.8	2418.8	2378.5	2390.9	2449.7	2452.8	2384.7	2291.8	2279.4	2288.7	2294.9
27.5°	2601.5	2610.8	2576.7	2589.1	2613.9	2635.5	2576.7	2499.3	2471.4	2468.3	2477.6
30°	2799.7	2818.3	2815.2	2867.8	2939.1	2951.4	2864.7	2737.7	2654.1	2638.6	2651.0
32.5°	3059.8	3069.1	3062.9	3124.9	3316.9	3406.7	3180.6	3001.0	2889.5	2917.4	2889.5
35°	3549.2	3539.9	3471.7	3484.1	3642.1	3707.1	3490.3	3375.7	3323.1	3378.8	3366.4
37.5°	3970.4	3936.3	3880.5	3961.1	4125.2	4184.0	3958.0	3756.7	3660.7	3753.6	3793.8
40°	4326.5	4239.8	4162.4	4242.9	4462.8	4543.3	4211.9	4047.8	4010.6	4078.7	4165.5
42.5°	4626.9	4571.2	4469.0	4475.2	4620.7	4657.9	4391.5	4295.5	4258.4	4366.8	4410.1
45°	4840.6	4788.0	4692.0	4685.8	4797.2	4772.5	4534.0	4469.0	4490.6	4561.9	4583.6
47.5°	4949.0	4976.9	4921.1	4936.6	4995.5	4936.6	4747.7	4747.7	4698.1	4741.5	4719.8
50°	5261.8	5175.1	5246.3	5246.3	5308.3	5314.4	5125.5	5057.4	4924.2	4849.9	4849.9
52.5°	5627.2	5633.4	5661.3	5763.5	5868.8	5958.6	5689.2	5398.1	5175.1	5079.1	5066.7
55°	5927.7	5989.6	6101.1	6293.1	6596.6	6720.5	6255.9	5735.6	5463.1	5314.4	5283.5
56°	6091.8	6033.0	6225.0	6488.2	6884.6	7045.7	6348.8	5803.8	5503.4	5336.1	5333.0
57.5°	5933.8	5998.9	6132.1	6547.1	7033.3	7243.9	6382.9	5772.8	5342.3	5172.0	5187.5
60°	4685.8	4747.7	4927.3	5391.9	6153.7	6317.9	5401.2	4760.1	4376.1	4131.4	4134.5
62.5°	2651.0	2697.5	2836.8	3267.3	3741.2	3899.1	3366.4	2939.1	2672.7	2536.4	2493.1
65°	975.6	957.0	978.7	1198.5	1489.7	1622.8	1399.8	1183.1	1043.7	994.1	975.6
67.5°	365.4	337.6	315.9	337.6	424.3	449.1	411.9	343.8	322.1	331.4	337.6
70°	226.1	213.7	170.3	161.0	157.9	154.8	164.1	173.4	198.2	232.3	238.5
72.5°	157.9	148.7	120.8	114.6	108.4	105.3	120.8	133.2	154.8	179.6	182.7
75°	61.9	65.0	61.9	68.1	71.2	74.3	86.7	96.0	105.3	105.3	102.2
77.5°	12.4	12.4	18.6	24.8	31.0	40.3	58.8	68.1	71.2	68.1	58.8
80°	0.0	0.0	6.2	12.4	24.8	34.1	52.6	58.8	65.0	58.8	46.5
82.5°	0.0	0.0	6.2	15.5	24.8	31.0	49.6	61.9	71.2	65.0	49.6
85°	0.0	0.0	6.2	12.4	18.6	21.7	21.7	15.5	15.5	9.3	6.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)