

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: P530873

Luminaire Tested: **GALN-SA6A-827-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530873
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-3)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6A-827-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11964 lumens
Efficiency: N/A
Efficacy: 65.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G0

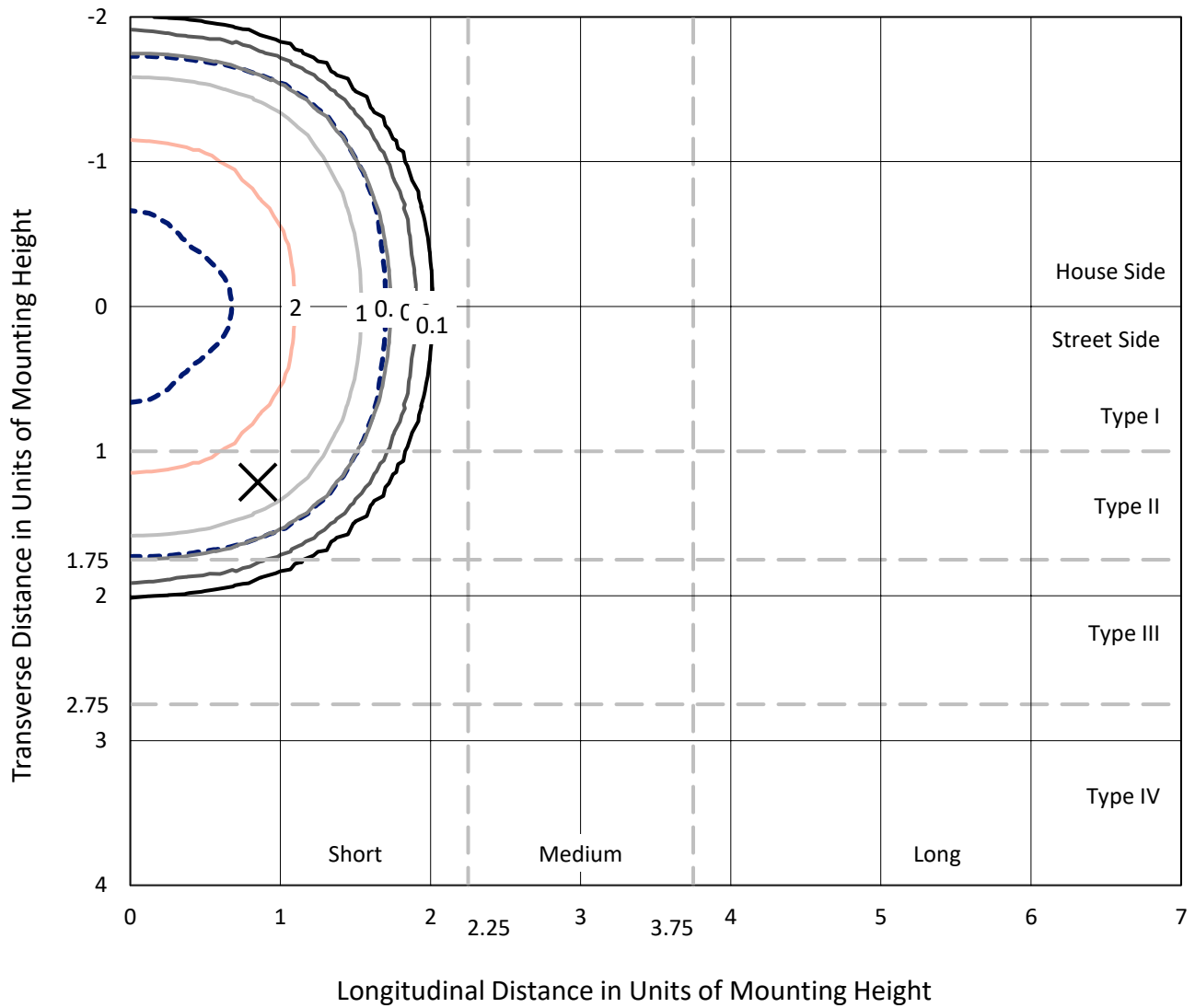
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

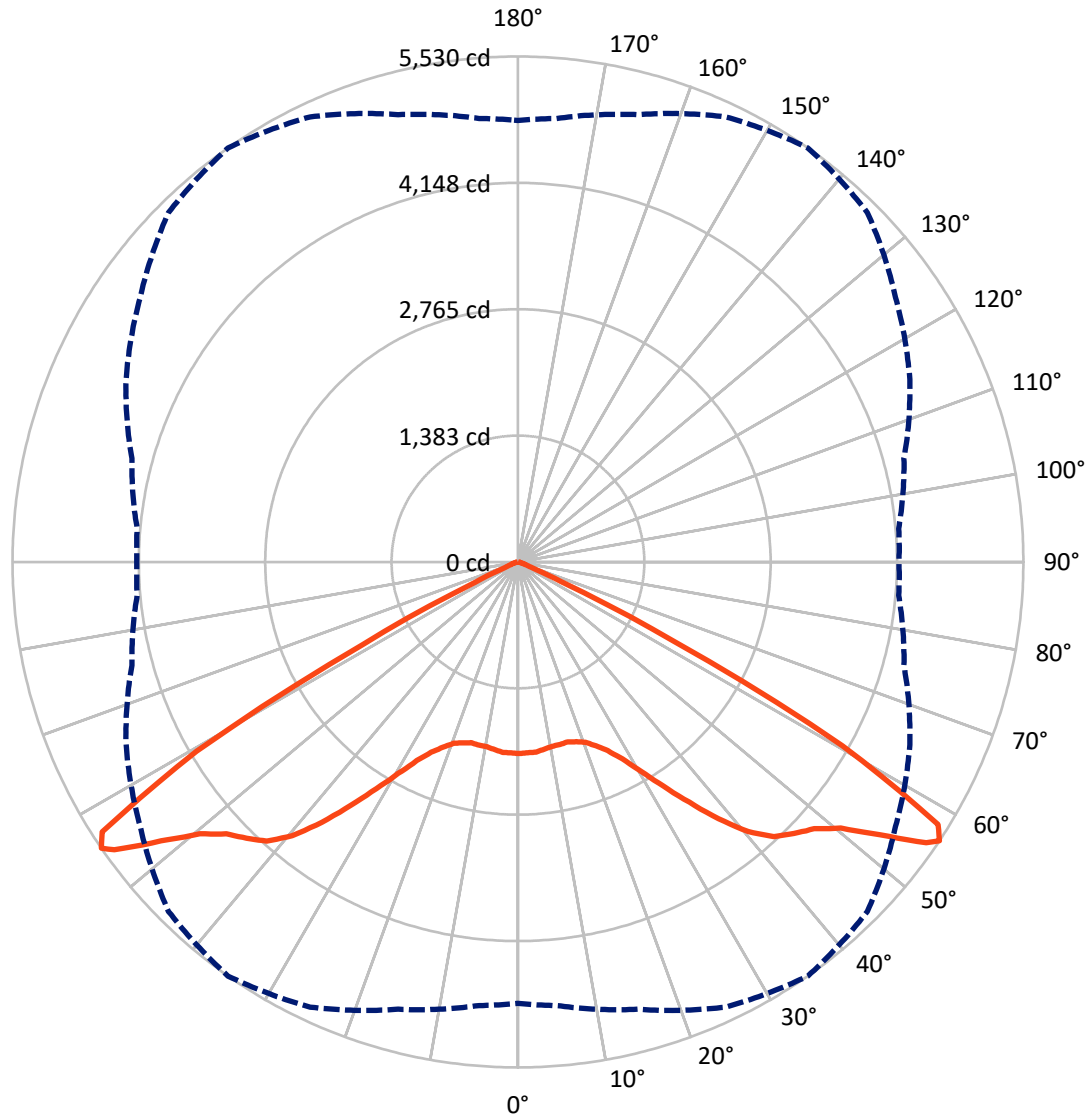
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5982.0	0.0	5982.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5982.0	0.0	5982.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	11964.0	0.0	11964.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.0	1.6
10°-20°	575.2	4.8
20°-30°	1041.6	8.7
30°-40°	1931.6	16.1
40°-50°	3170.5	26.5
50°-60°	4084.6	34.1
60°-70°	900.2	7.5
70°-80°	52.2	0.4
80°-90°	11.0	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°	11964.0	100.0
0°-180°	11964.0	100.0

Coefficient of Utilization



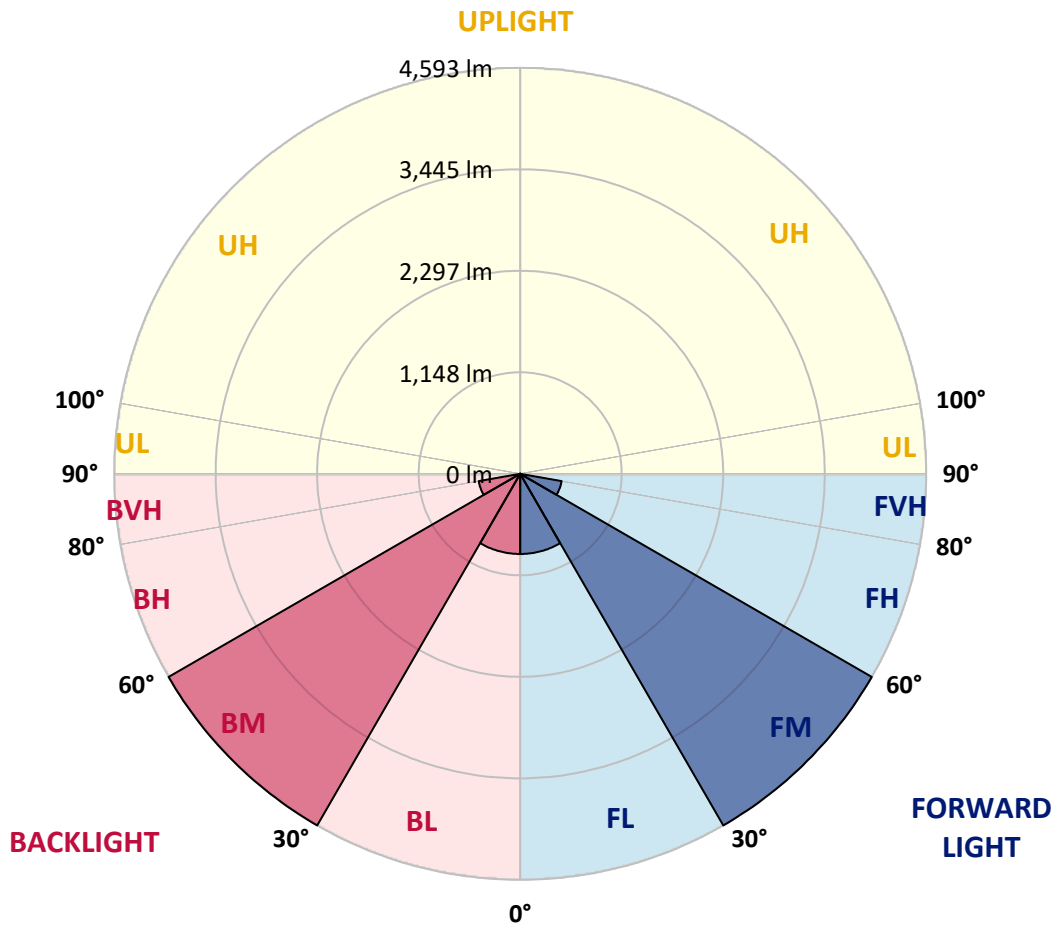
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	906.9	7.6			
FM (30°-60°)	4593.4	38.4			
FH (60°-80°)	476.2	4.0			G0/660
FVH (80°-90°)	5.5	0.0			G0/10
BL (0°-30°)	906.9	7.6	B2/1000		
BM (30°-60°)	4593.4	38.4	B3/5000		
BH (60°-80°)	476.2	4.0	B1/500		G0/660
BVH (80°-90°)	5.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G0

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2096.4	2096.4	2096.4	2096.4	2096.4	2096.4	2096.4	2096.4	2096.4	2096.4	2096.4
2.5°	2100.7	2100.7	2102.9	2105.0	2089.8	2083.3	2085.5	2081.2	2079.0	2085.5	2085.5
5°	2094.2	2094.2	2087.7	2089.8	2089.8	2070.3	2070.3	2074.7	2074.7	2061.7	2057.3
7.5°	2076.8	2072.5	2063.8	2074.7	2068.2	2068.2	2053.0	2042.2	2037.8	2046.5	2037.8
10°	2040.0	2042.2	2050.8	2055.2	2050.8	2063.8	2037.8	2022.6	2007.5	2001.0	2001.0
12.5°	2022.6	2035.6	2022.6	2033.5	2048.7	2037.8	2022.6	2011.8	1990.1	1981.5	1981.5
15°	2020.5	2029.1	2033.5	2048.7	2042.2	2046.5	2016.1	2003.1	1970.6	1955.4	1948.9
17.5°	2018.3	2029.1	2035.6	2063.8	2068.2	2070.3	2046.5	2007.5	1979.3	1964.1	1948.9
20°	2042.2	2046.5	2059.5	2087.7	2105.0	2135.4	2092.0	2050.8	1990.1	1972.8	1966.3
22.5°	2072.5	2094.2	2107.2	2137.5	2183.1	2209.1	2152.7	2100.7	2037.8	2016.1	1990.1
25°	2170.1	2165.7	2187.4	2250.3	2287.1	2306.6	2261.1	2185.2	2102.9	2076.8	2081.2
27.5°	2291.5	2295.8	2315.3	2384.7	2438.9	2469.2	2415.0	2315.3	2235.1	2191.7	2187.4
30°	2449.7	2445.4	2467.1	2560.3	2657.8	2703.4	2608.0	2490.9	2412.9	2356.5	2369.5
32.5°	2616.6	2618.8	2679.5	2764.1	2922.3	3011.2	2857.3	2714.2	2597.1	2558.1	2538.6
35°	2863.8	2874.6	2922.3	3052.4	3228.0	3342.9	3173.8	3002.5	2868.1	2796.6	2805.3
37.5°	3169.5	3158.6	3238.8	3379.7	3564.0	3648.6	3505.5	3310.4	3173.8	3126.1	3156.4
40°	3494.6	3505.5	3546.7	3674.6	3880.5	3936.9	3724.4	3618.2	3499.0	3475.1	3512.0
42.5°	3819.8	3813.3	3843.7	3958.6	4108.2	4069.1	3943.4	3880.5	3796.0	3748.3	3798.1
45°	4058.3	4047.5	4103.8	4181.9	4236.1	4162.3	4106.0	4084.3	4040.9	3988.9	4034.4
47.5°	4290.3	4281.6	4335.8	4357.5	4361.8	4264.2	4275.1	4314.1	4205.7	4097.3	4149.3
50°	4487.5	4472.4	4539.6	4587.3	4576.4	4420.3	4459.4	4420.3	4251.2	4123.3	4103.8
52.5°	4817.1	4823.6	4895.1	4981.8	4955.8	4825.7	4769.4	4591.6	4374.8	4259.9	4192.7
55°	5025.2	4992.7	5116.2	5391.5	5421.9	5287.5	5038.2	4775.9	4450.7	4309.8	4292.4
56°	4830.1	4871.2	5066.4	5374.2	5530.3	5406.7	5044.7	4730.3	4372.6	4181.9	4168.9
57.5°	4333.6	4311.9	4576.4	4997.0	5421.9	5369.9	4866.9	4405.2	3988.9	3774.3	3748.3
60°	2696.9	2759.7	2991.7	3512.0	4080.0	4106.0	3607.4	3210.6	2725.0	2534.3	2579.8
62.5°	1055.8	1001.6	1146.8	1534.9	1925.1	2011.8	1823.2	1515.4	1244.4	1055.8	1042.8
65°	245.0	238.5	268.8	370.7	518.1	600.5	570.2	409.7	301.3	286.2	264.5
67.5°	138.7	138.7	132.2	132.2	145.2	153.9	147.4	145.2	151.8	158.3	156.1
70°	97.6	95.4	91.1	93.2	88.9	88.9	95.4	106.2	114.9	114.9	117.1
72.5°	58.5	58.5	58.5	65.0	65.0	65.0	71.5	80.2	82.4	80.2	78.0
75°	26.0	26.0	30.4	36.9	41.2	43.4	49.9	54.2	58.5	54.2	49.9
77.5°	6.5	6.5	10.8	15.2	19.5	23.8	32.5	39.0	41.2	39.0	32.5
80°	2.2	2.2	4.3	10.8	19.5	23.8	32.5	34.7	36.9	32.5	26.0
82.5°	2.2	2.2	4.3	10.8	15.2	19.5	26.0	30.4	32.5	28.2	26.0
85°	0.0	2.2	4.3	8.7	13.0	17.3	17.3	13.0	10.8	6.5	8.7
87.5°	0.0	0.0	2.2	2.2	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)