

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: P527444

Luminaire Tested: **GALN-SA2C-727-U-5NQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527444
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-6)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2C-727-U-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10649 lumens
Efficiency: N/A
Efficacy: 98.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

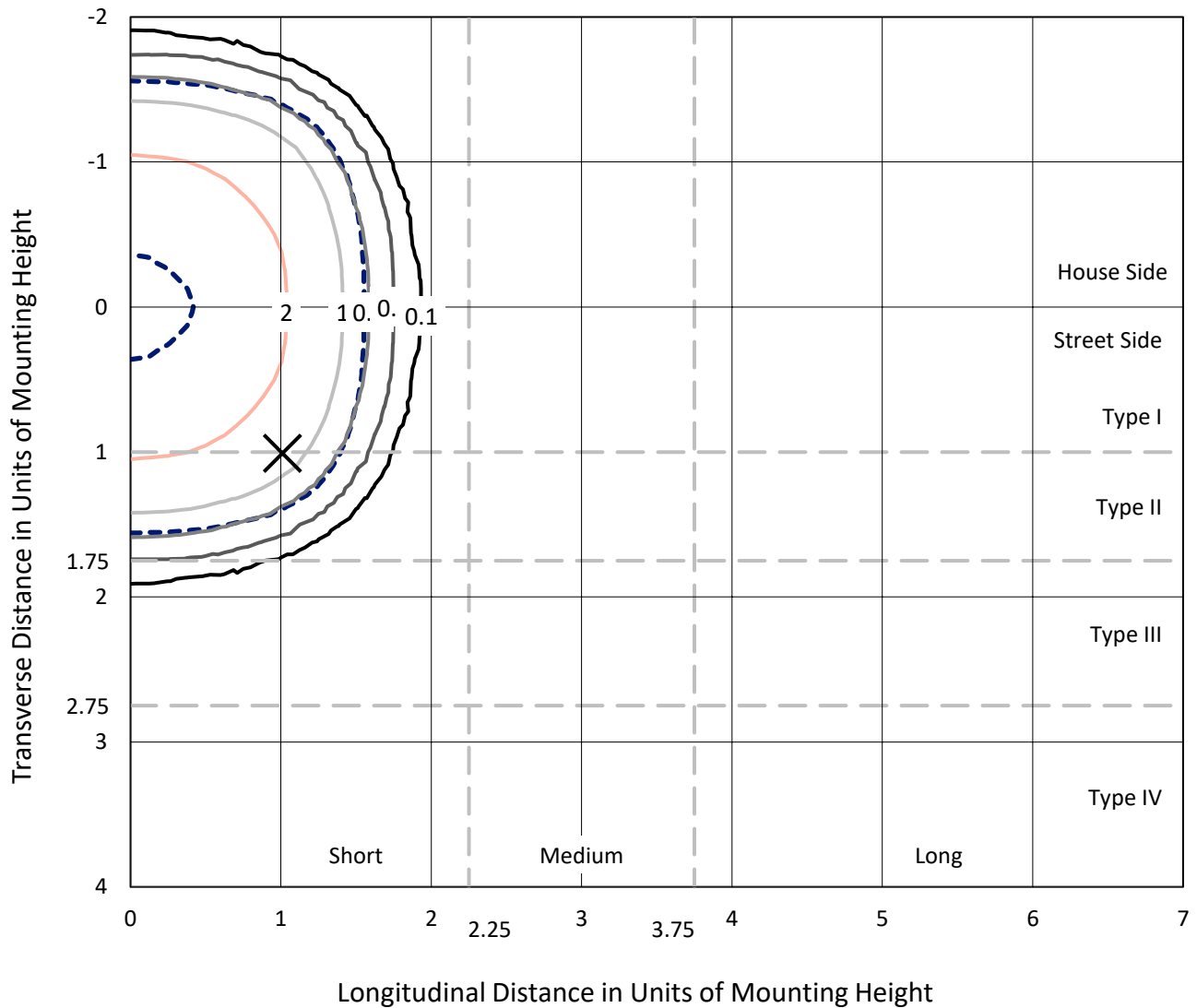
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

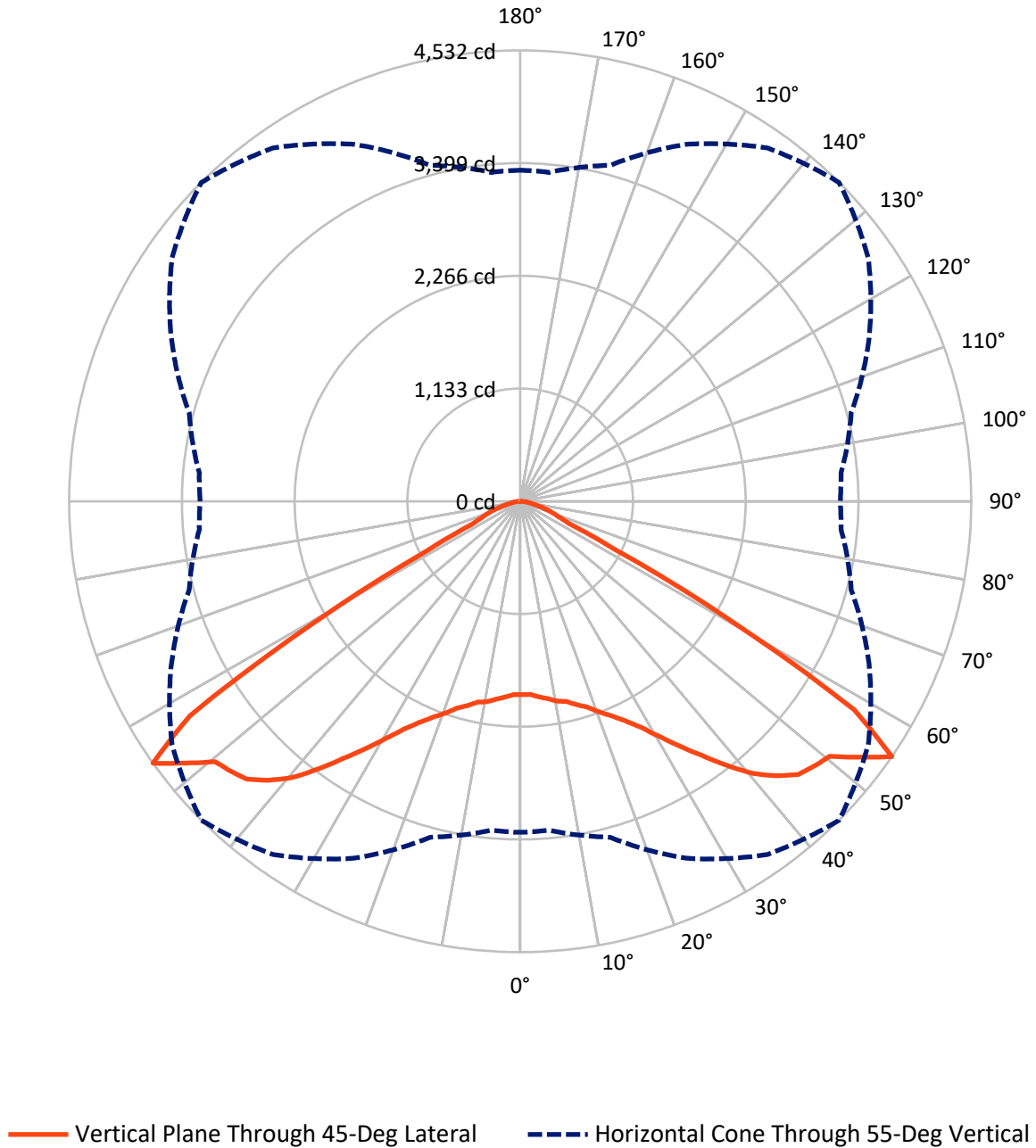
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5324.5	0.0	5324.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5324.5	0.0	5324.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	10649.0	0.0	10649.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.9	1.8
10°-20°	601.8	5.7
20°-30°	1122.2	10.5
30°-40°	1879.0	17.6
40°-50°	2923.9	27.5
50°-60°	3035.9	28.5
60°-70°	643.8	6.0
70°-80°	212.0	2.0
80°-90°	40.4	0.4
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°	10649.0	100.0
0°-180°	10649.0	100.0

Coefficient of Utilization



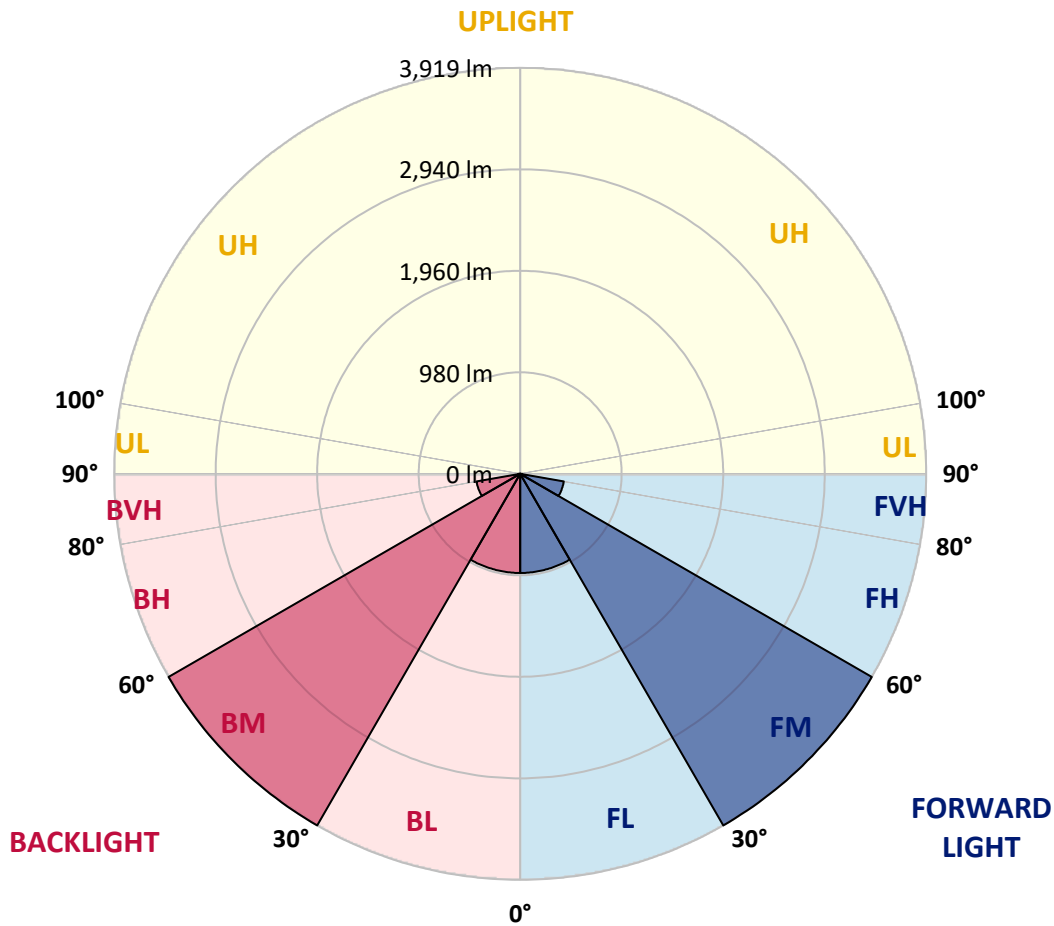
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	957.0	9.0			
FM (30°-60°)	3919.4	36.8			
FH (60°-80°)	427.9	4.0			G0/660
FVH (80°-90°)	20.2	0.2			G1/100
BL (0°-30°)	957.0	9.0	B2/1000		
BM (30°-60°)	3919.4	36.8	B3/5000		
BH (60°-80°)	427.9	4.0	B1/500		G0/660
BVH (80°-90°)	20.2	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1944.3	1944.3	1944.3	1944.3	1944.3	1944.3	1944.3	1944.3	1944.3	1944.3	1944.3
2.5°	1967.5	1958.5	1943.1	1954.6	1963.7	1944.3	1952.1	1955.9	1953.4	1943.1	1946.9
5°	1995.8	1990.7	1977.8	1986.8	1975.2	1975.2	1967.5	1957.2	1972.7	1970.1	1976.5
7.5°	1995.8	1989.4	2015.1	1998.4	2003.5	2003.5	1990.7	1980.4	1988.1	1976.5	1970.1
10°	2035.7	2044.7	2033.1	2037.0	2034.4	2043.4	2024.1	2017.7	2011.3	2007.4	1999.7
12.5°	2083.3	2076.9	2080.7	2078.2	2087.2	2064.0	2052.4	2038.3	2049.9	2033.1	2044.7
15°	2121.9	2118.1	2121.9	2132.2	2123.2	2121.9	2101.3	2087.2	2069.2	2073.0	2055.0
17.5°	2174.7	2170.8	2172.1	2181.1	2179.8	2173.4	2158.0	2130.9	2124.5	2114.2	2102.6
20°	2253.2	2246.7	2244.2	2248.0	2254.5	2259.6	2228.7	2218.4	2196.6	2179.8	2160.5
22.5°	2320.1	2317.5	2327.8	2311.1	2325.2	2340.7	2311.1	2305.9	2251.9	2242.9	2222.3
25°	2412.7	2408.9	2402.4	2426.9	2443.6	2442.3	2414.0	2385.7	2344.5	2334.2	2334.2
27.5°	2510.5	2488.7	2522.1	2528.6	2558.2	2567.2	2542.7	2501.5	2462.9	2441.1	2446.2
30°	2632.8	2612.2	2619.9	2666.2	2704.8	2738.3	2676.5	2616.1	2562.0	2523.4	2517.0
32.5°	2755.0	2734.4	2757.6	2802.6	2879.8	2930.0	2869.6	2764.0	2701.0	2644.4	2655.9
35°	2854.1	2869.6	2906.9	2975.1	3054.9	3135.9	3039.4	2958.3	2868.3	2805.2	2814.2
37.5°	3013.7	3061.3	3090.9	3169.4	3282.6	3366.3	3265.9	3160.4	3063.9	2981.5	2953.2
40°	3222.1	3254.3	3287.8	3380.4	3514.2	3597.9	3502.7	3365.0	3269.7	3184.8	3181.0
42.5°	3451.2	3482.1	3516.8	3630.1	3709.8	3772.9	3685.4	3612.0	3506.5	3439.6	3435.7
45°	3717.6	3695.7	3734.3	3808.9	3875.8	3917.0	3860.4	3824.4	3748.4	3686.7	3680.2
47.5°	3895.1	3875.8	3945.3	4012.2	4022.5	3977.5	3989.1	4022.5	3942.7	3841.1	3873.3
50°	3998.1	3998.1	4044.4	4106.2	4086.9	4029.0	4120.3	4122.9	4043.1	3953.0	3953.0
52.5°	3819.2	3859.1	3990.4	4192.4	4256.7	4273.4	4252.9	4165.4	3956.9	3772.9	3763.9
55°	3327.7	3318.6	3496.2	3959.5	4333.9	4532.1	4269.6	3866.8	3443.5	3236.3	3215.7
57.5°	2164.4	2174.7	2439.8	2912.0	3587.6	3956.9	3514.2	2948.0	2439.8	2154.1	2181.1
60°	974.1	1008.8	1169.7	1522.3	2102.6	2403.7	2107.8	1599.5	1227.6	1065.5	1079.6
62.5°	559.8	566.2	572.6	679.4	895.6	1059.0	930.4	718.0	633.1	604.8	604.8
65°	472.3	468.4	469.7	478.7	501.9	535.3	521.2	501.9	504.4	501.9	498.0
67.5°	401.5	406.6	402.8	409.2	410.5	415.6	424.6	432.4	433.7	436.2	433.7
70°	329.4	330.7	333.3	338.4	339.7	343.6	356.4	362.9	366.7	366.7	371.9
72.5°	252.2	250.9	253.5	258.6	265.1	266.4	277.9	287.0	292.1	285.7	287.0
75°	166.0	167.3	171.1	175.0	184.0	193.0	196.9	205.9	207.2	209.7	203.3
77.5°	99.1	101.7	105.5	113.2	121.0	128.7	137.7	144.1	146.7	144.1	136.4
80°	64.3	64.3	69.5	75.9	84.9	91.4	96.5	101.7	105.5	101.7	99.1
82.5°	39.9	39.9	46.3	54.0	60.5	64.3	72.1	78.5	82.4	79.8	75.9
85°	20.6	21.9	27.0	33.5	38.6	41.2	39.9	36.0	32.2	30.9	28.3
87.5°	6.4	6.4	7.7	7.7	6.4	6.4	7.7	6.4	7.7	7.7	7.7
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)