

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: P527470

Luminaire Tested: **GALN-SA2C-730-U-5NQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527470
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-730-U-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 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: 11597 lumens
Efficiency: N/A
Efficacy: 107.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

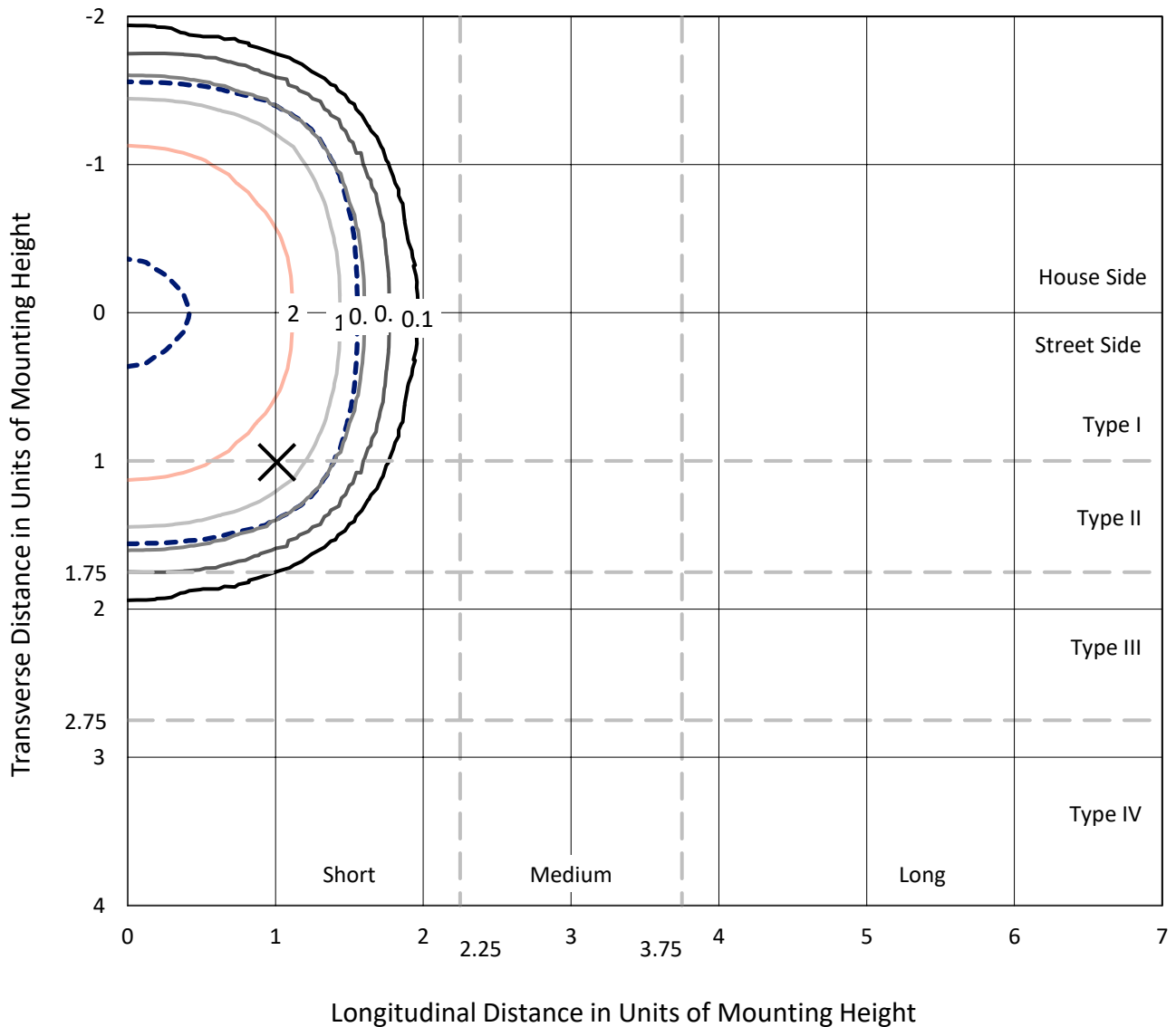
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

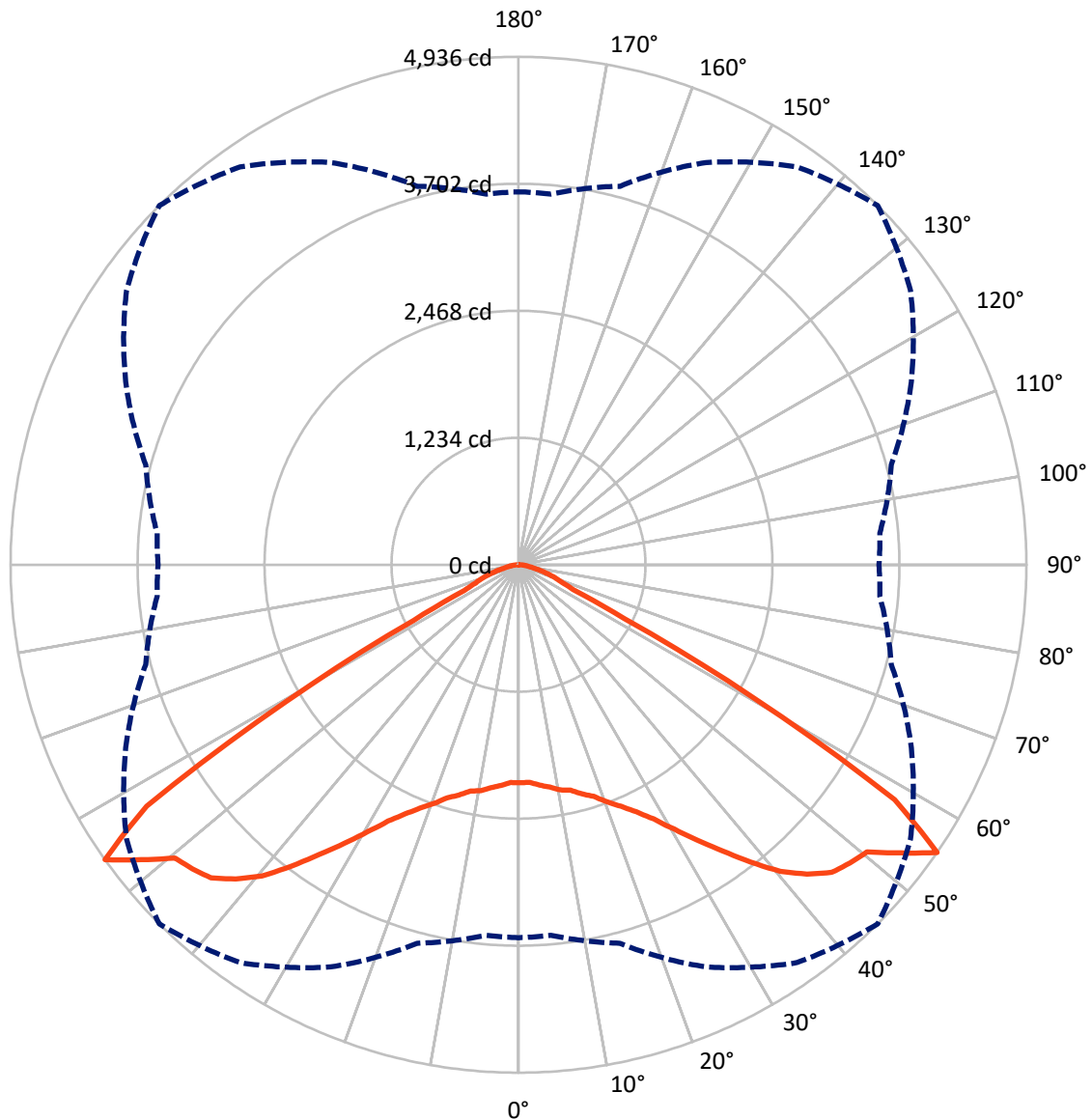
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5798.5	0.0	5798.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5798.5	0.0	5798.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	11597.0	0.0	11597.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.9	1.8
10°-20°	655.4	5.7
20°-30°	1222.1	10.5
30°-40°	2046.3	17.6
40°-50°	3184.2	27.5
50°-60°	3306.2	28.5
60°-70°	701.1	6.0
70°-80°	230.9	2.0
80°-90°	44.0	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°	11597.0	100.0
0°-180°	11597.0	100.0

Coefficient of Utilization



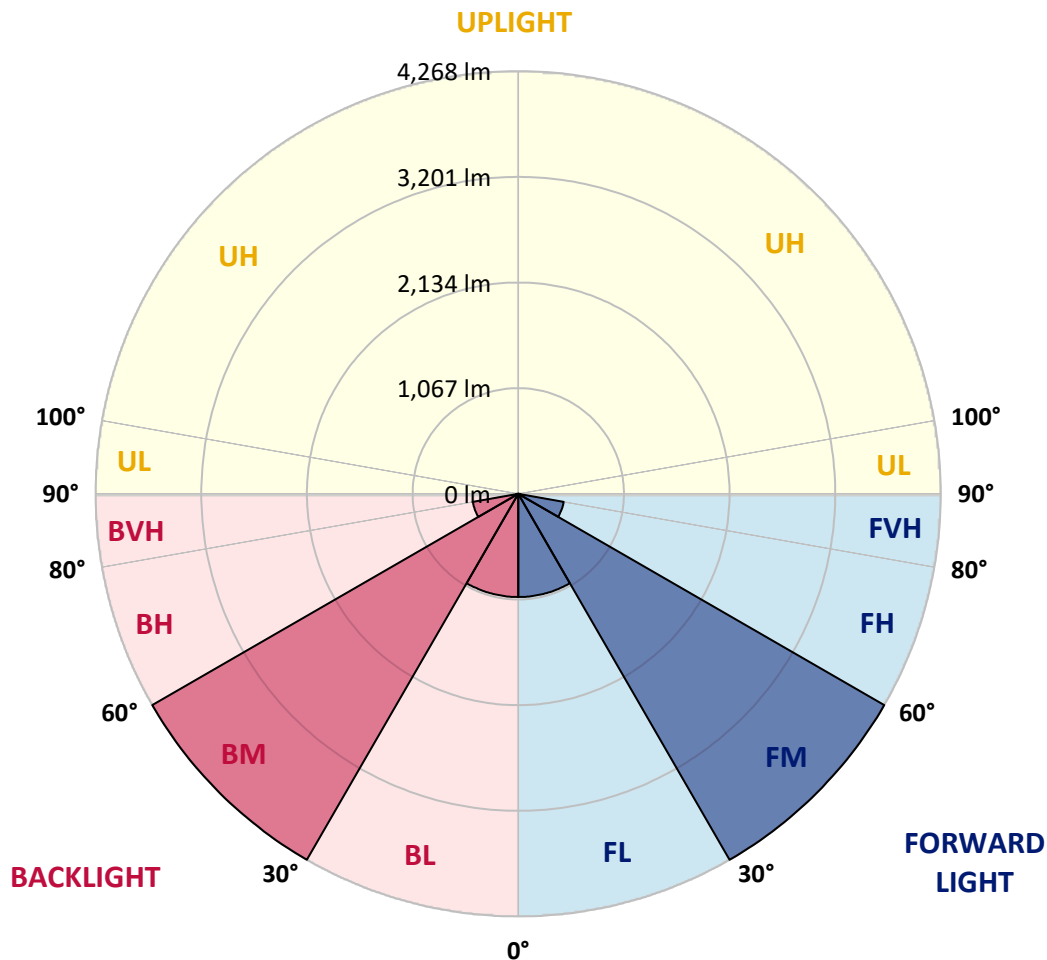
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1042.2	9.0			
FM (30°-60°)	4268.3	36.8			
FH (60°-80°)	466.0	4.0			G0/660
FVH (80°-90°)	22.0	0.2			G1/100
BL (0°-30°)	1042.2	9.0	B3/2500		
BM (30°-60°)	4268.3	36.8	B3/5000		
BH (60°-80°)	466.0	4.0	B1/500		G0/660
BVH (80°-90°)	22.0	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°	2117.4	2117.4	2117.4	2117.4	2117.4	2117.4	2117.4	2117.4	2117.4	2117.4	2117.4
2.5°	2142.7	2132.9	2116.0	2128.7	2138.5	2117.4	2125.8	2130.1	2127.2	2116.0	2120.2
5°	2173.5	2167.9	2153.9	2163.7	2151.1	2151.1	2142.7	2131.5	2148.3	2145.5	2152.5
7.5°	2173.5	2166.5	2194.5	2176.3	2181.9	2181.9	2167.9	2156.7	2165.1	2152.5	2145.5
10°	2216.9	2226.7	2214.1	2218.3	2215.5	2225.3	2204.3	2197.3	2190.3	2186.1	2177.7
12.5°	2268.8	2261.8	2266.0	2263.2	2273.0	2247.8	2235.2	2219.7	2232.3	2214.1	2226.7
15°	2310.8	2306.6	2310.8	2322.0	2312.2	2310.8	2288.4	2273.0	2253.4	2257.6	2238.0
17.5°	2368.3	2364.1	2365.5	2375.3	2373.9	2366.9	2350.1	2320.6	2313.6	2302.4	2289.8
20°	2453.8	2446.8	2444.0	2448.2	2455.2	2460.8	2427.1	2415.9	2392.1	2373.9	2352.9
22.5°	2526.6	2523.8	2535.0	2516.8	2532.2	2549.1	2516.8	2511.2	2452.4	2442.6	2420.1
25°	2627.5	2623.3	2616.3	2642.9	2661.2	2659.8	2628.9	2598.1	2553.3	2542.0	2542.0
27.5°	2734.0	2710.2	2746.6	2753.7	2785.9	2795.7	2769.1	2724.2	2682.2	2658.4	2664.0
30°	2867.2	2844.7	2853.1	2903.6	2945.6	2982.1	2914.8	2848.9	2790.1	2748.0	2741.0
32.5°	3000.3	2977.9	3003.1	3052.1	3136.2	3190.9	3125.0	3010.1	2941.4	2879.8	2892.4
35°	3108.2	3125.0	3165.6	3239.9	3326.8	3415.1	3310.0	3221.7	3123.6	3054.9	3064.8
37.5°	3282.0	3333.8	3366.0	3451.5	3574.8	3665.9	3556.6	3441.7	3336.6	3246.9	3216.1
40°	3509.0	3544.0	3580.4	3681.3	3827.1	3918.2	3814.5	3664.5	3560.8	3468.3	3464.1
42.5°	3758.4	3792.1	3829.9	3953.2	4040.1	4108.8	4013.5	3933.6	3818.7	3745.8	3741.6
45°	4048.5	4024.7	4066.7	4148.0	4220.9	4265.7	4204.0	4164.8	4082.1	4014.9	4007.9
47.5°	4241.9	4220.9	4296.5	4369.4	4380.6	4331.6	4344.2	4380.6	4293.7	4183.0	4218.1
50°	4354.0	4354.0	4404.4	4471.7	4450.7	4387.6	4487.1	4489.9	4403.0	4304.9	4304.9
52.5°	4159.2	4202.6	4345.6	4565.6	4635.7	4653.9	4631.5	4536.2	4309.1	4108.8	4098.9
55°	3623.9	3614.1	3807.5	4312.0	4719.7	4935.6	4649.7	4211.1	3750.0	3524.4	3502.0
57.5°	2357.1	2368.3	2657.0	3171.3	3907.0	4309.1	3827.1	3210.5	2657.0	2345.9	2375.3
60°	1060.8	1098.7	1273.8	1657.8	2289.8	2617.7	2295.4	1741.9	1336.9	1160.3	1175.7
62.5°	609.6	616.6	623.6	739.9	975.3	1153.3	1013.2	782.0	689.5	658.6	658.6
65°	514.3	510.1	511.5	521.3	546.5	583.0	567.5	546.5	549.3	546.5	542.3
67.5°	437.2	442.8	438.6	445.6	447.0	452.6	462.4	470.9	472.3	475.1	472.3
70°	358.7	360.1	362.9	368.6	370.0	374.2	388.2	395.2	399.4	399.4	405.0
72.5°	274.7	273.3	276.1	281.7	288.7	290.1	302.7	312.5	318.1	311.1	312.5
75°	180.8	182.2	186.4	190.6	200.4	210.2	214.4	224.2	225.6	228.4	221.4
77.5°	107.9	110.7	114.9	123.3	131.7	140.1	149.9	157.0	159.8	157.0	148.5
80°	70.1	70.1	75.7	82.7	92.5	99.5	105.1	110.7	114.9	110.7	107.9
82.5°	43.4	43.4	50.4	58.9	65.9	70.1	78.5	85.5	89.7	86.9	82.7
85°	22.4	23.8	29.4	36.4	42.0	44.8	43.4	39.2	35.0	33.6	30.8
87.5°	7.0	7.0	8.4	8.4	7.0	7.0	8.4	7.0	8.4	8.4	8.4
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)