

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: P527706

Luminaire Tested: **GALN-SA2D-730-U-5WQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527706
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-730-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12020 lumens
Efficiency: N/A
Efficacy: 96.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

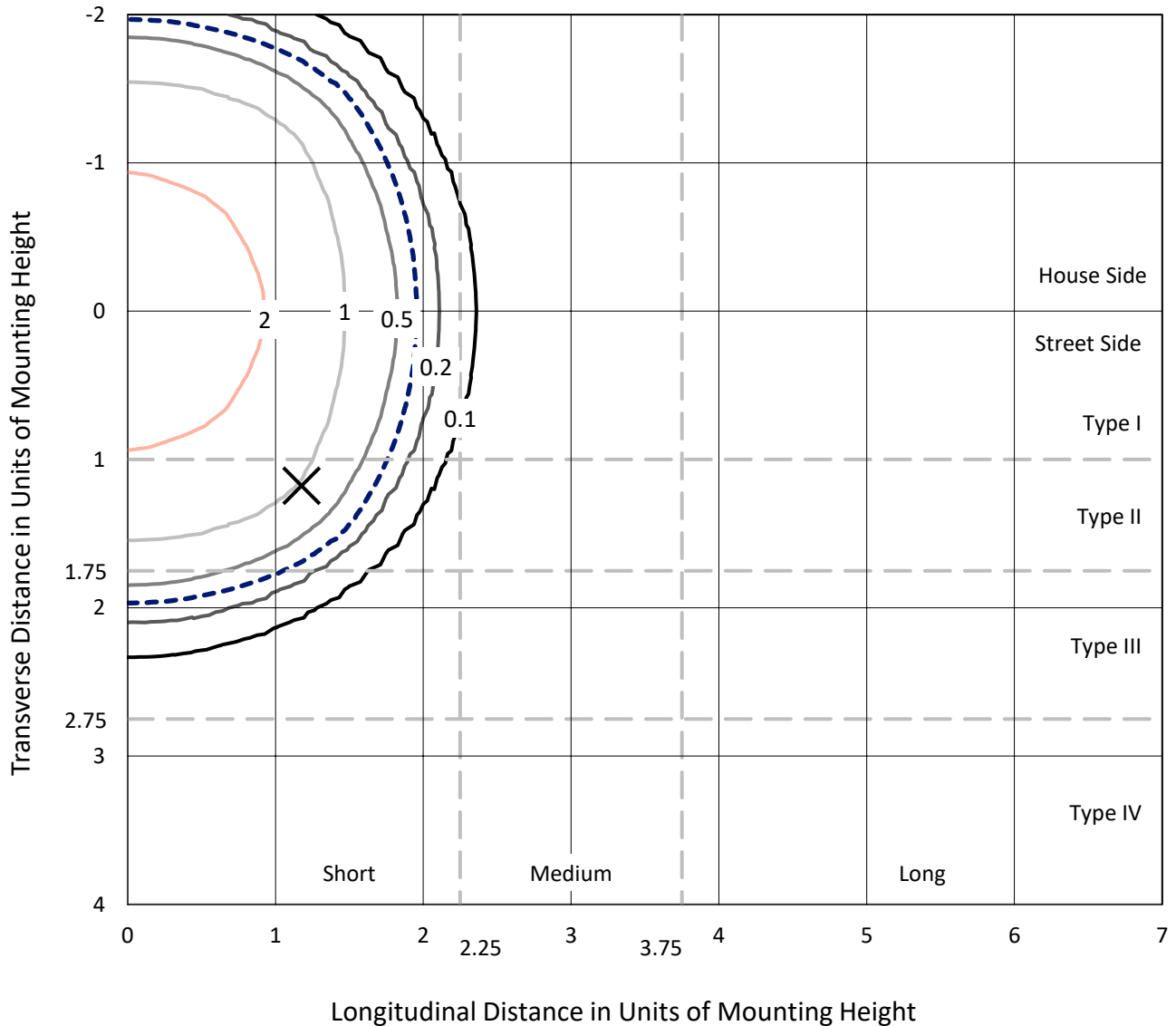
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

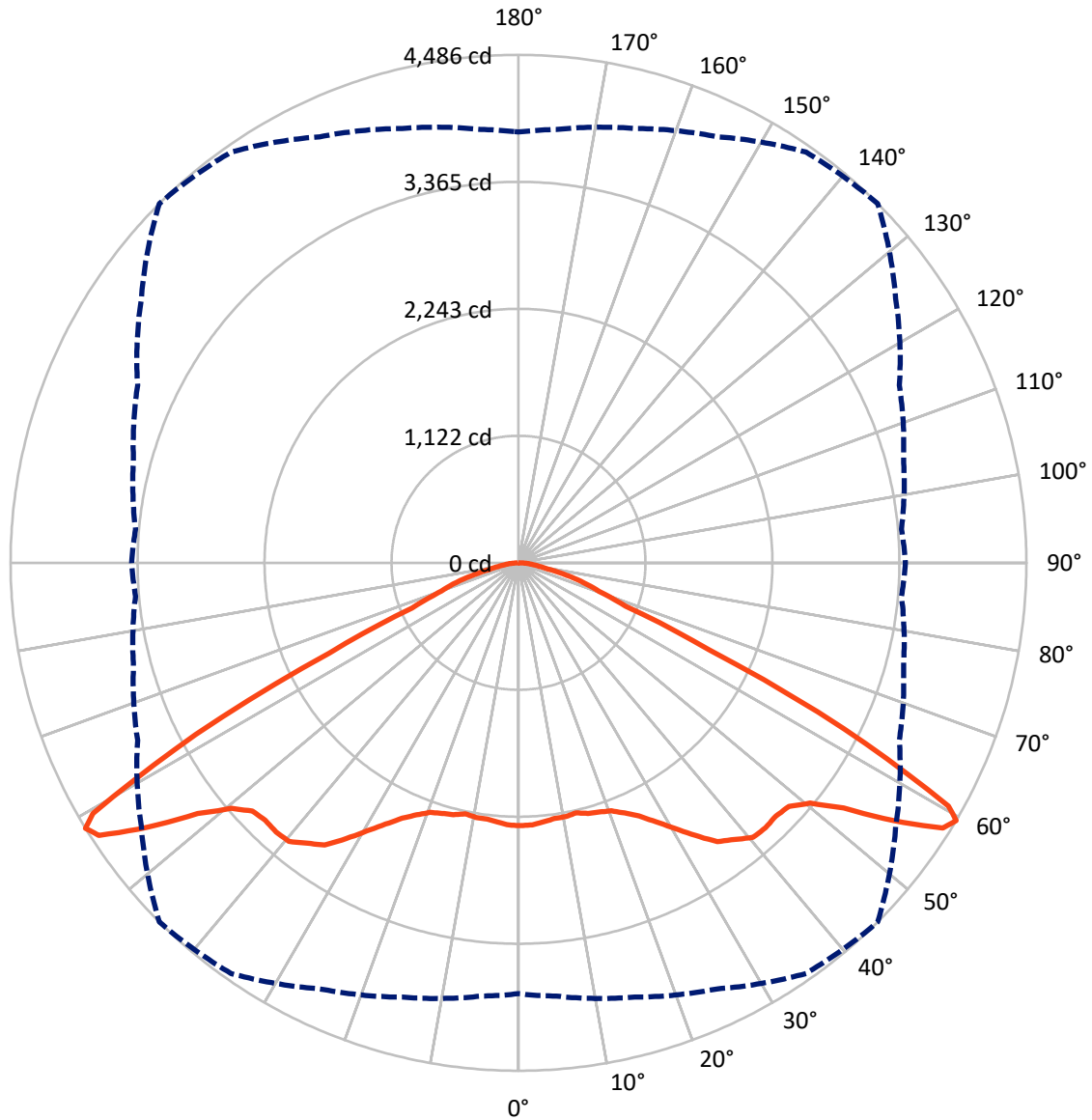
× Max cd
 - - - 1/2 Max cd



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 59-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6010.0	0.0	6010.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6010.0	0.0	6010.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	12020.0	0.0	12020.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.9	1.8
10°-20°	650.9	5.4
20°-30°	1136.5	9.5
30°-40°	1815.1	15.1
40°-50°	2472.5	20.6
50°-60°	3343.5	27.8
60°-70°	1833.6	15.3
70°-80°	469.1	3.9
80°-90°	80.0	0.7
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°	12020.0	100.0
0°-180°	12020.0	100.0

Coefficient of Utilization



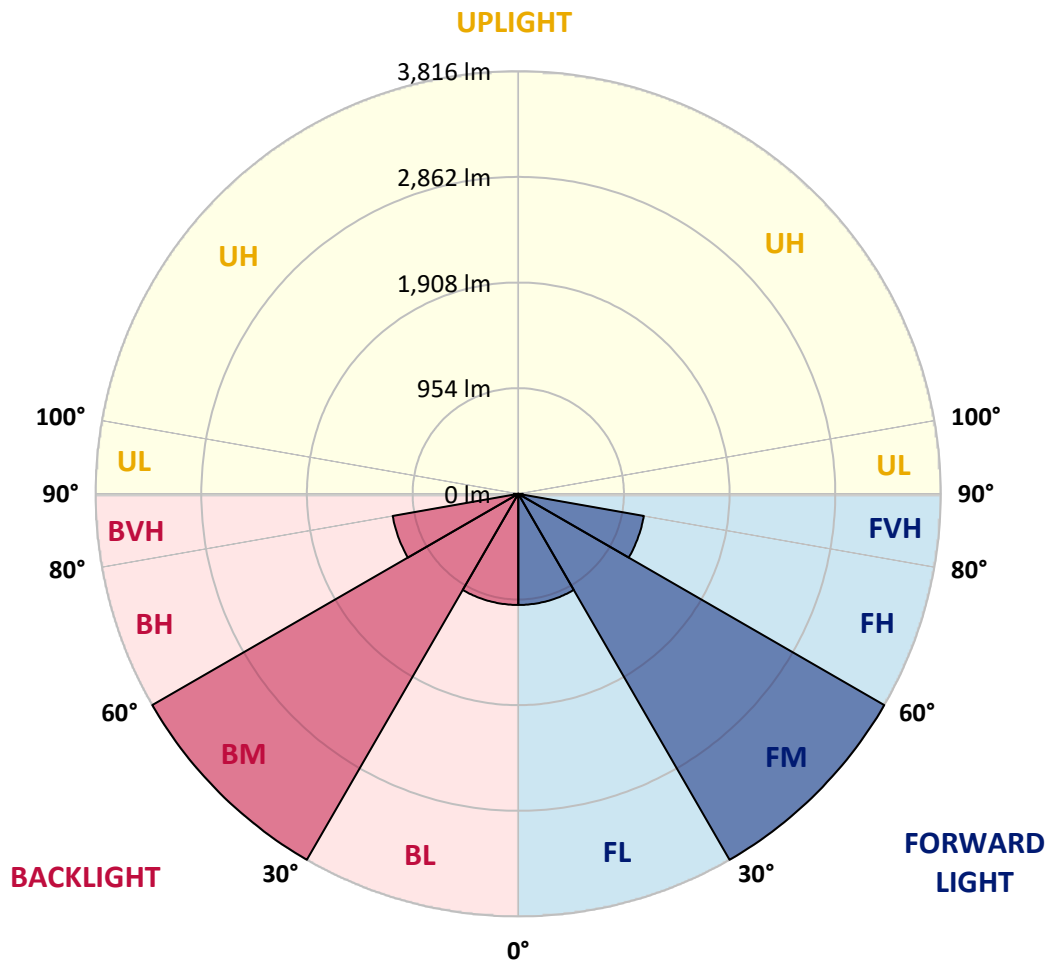
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1003.1	8.3			
FM (30°-60°)	3815.6	31.7			
FH (60°-80°)	1151.3	9.6			G1/1800
FVH (80°-90°)	40.0	0.3			G1/100
BL (0°-30°)	1003.1	8.3	B3/2500		
BM (30°-60°)	3815.6	31.7	B3/5000		
BH (60°-80°)	1151.3	9.6	B3/2500		G1/1800
BVH (80°-90°)	40.0	0.3			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°	2321.7	2321.7	2321.7	2321.7	2321.7	2321.7	2321.7	2321.7	2321.7	2321.7	2321.7
2.5°	2307.8	2324.8	2312.4	2323.2	2321.7	2317.1	2309.4	2304.7	2298.6	2307.8	2292.4
5°	2298.6	2312.4	2326.3	2307.8	2307.8	2298.6	2294.0	2284.7	2284.7	2283.2	2281.6
7.5°	2314.0	2300.1	2294.0	2297.0	2300.1	2280.1	2294.0	2275.5	2260.1	2270.8	2283.2
10°	2300.1	2306.3	2283.2	2294.0	2277.0	2280.1	2270.8	2283.2	2266.2	2266.2	2266.2
12.5°	2314.0	2297.0	2304.7	2297.0	2292.4	2266.2	2278.6	2264.7	2263.1	2278.6	2264.7
15°	2341.7	2314.0	2307.8	2292.4	2297.0	2297.0	2284.7	2286.3	2269.3	2278.6	2281.6
17.5°	2332.5	2317.1	2312.4	2294.0	2309.4	2314.0	2290.9	2275.5	2286.3	2284.7	2283.2
20°	2340.2	2346.3	2341.7	2344.8	2351.0	2338.6	2317.1	2295.5	2281.6	2301.7	2300.1
22.5°	2389.5	2383.3	2380.2	2377.2	2387.9	2400.3	2371.0	2337.1	2337.1	2351.0	2357.1
25°	2429.5	2428.0	2426.5	2440.3	2477.3	2477.3	2440.3	2397.2	2386.4	2395.6	2387.9
27.5°	2488.1	2505.0	2498.9	2523.5	2577.4	2589.8	2540.5	2489.6	2460.3	2449.6	2463.4
30°	2622.1	2602.1	2606.7	2632.9	2680.6	2720.7	2645.2	2591.3	2551.2	2549.7	2555.9
32.5°	2711.5	2726.9	2740.7	2765.4	2840.9	2871.7	2780.8	2693.0	2668.3	2654.5	2659.1
35°	2890.2	2876.3	2873.2	2897.9	2973.4	3024.2	2910.2	2833.2	2800.8	2831.6	2831.6
37.5°	3059.6	3021.1	2991.9	3024.2	3093.5	3099.7	3002.6	2961.0	2944.1	2979.5	2978.0
40°	3139.7	3136.7	3068.9	3087.4	3179.8	3189.0	3098.2	3048.9	3045.8	3092.0	3138.2
42.5°	3222.9	3193.7	3125.9	3138.2	3195.2	3198.3	3112.0	3098.2	3132.0	3176.7	3179.8
45°	3236.8	3212.2	3169.0	3138.2	3179.8	3189.0	3138.2	3147.5	3150.5	3204.5	3204.5
47.5°	3264.5	3261.5	3236.8	3213.7	3221.4	3213.7	3181.3	3195.2	3241.4	3267.6	3255.3
50°	3341.6	3309.2	3333.9	3313.8	3315.4	3336.9	3307.7	3321.5	3312.3	3289.2	3273.8
52.5°	3511.0	3495.6	3517.2	3531.1	3546.5	3595.8	3561.9	3487.9	3418.6	3357.0	3355.4
55°	3759.1	3769.9	3811.5	3882.3	3942.4	4021.0	3857.7	3680.5	3569.6	3472.5	3478.7
57.5°	3993.2	3985.5	4042.5	4204.3	4379.9	4420.0	4099.5	3846.9	3666.6	3605.0	3578.8
59°	3805.3	3842.3	3971.7	4151.9	4427.7	4486.2	4067.2	3711.3	3520.3	3395.5	3417.1
60°	3509.5	3523.4	3638.9	3890.0	4262.8	4363.0	3850.0	3501.8	3247.6	3175.2	3207.5
62.5°	2480.4	2469.6	2552.8	2757.7	3092.0	3227.6	2862.4	2617.5	2457.3	2377.2	2395.6
65°	1318.8	1368.1	1401.9	1529.8	1707.0	1850.3	1699.3	1593.0	1503.6	1437.4	1435.8
67.5°	890.5	884.3	892.0	921.3	981.4	1021.4	1018.3	964.4	956.7	944.4	958.3
70°	750.3	747.2	733.3	733.3	745.7	754.9	765.7	771.8	784.2	799.6	798.0
72.5°	608.5	600.8	591.6	587.0	602.4	607.0	620.9	627.0	637.8	636.3	650.1
75°	402.1	402.1	412.9	425.2	429.8	439.1	440.6	459.1	459.1	462.2	449.9
77.5°	224.9	218.8	226.5	238.8	249.6	266.5	283.5	297.3	305.0	302.0	302.0
80°	131.0	131.0	138.7	152.5	166.4	181.8	194.1	204.9	212.6	209.5	203.4
82.5°	81.7	81.7	89.4	103.2	114.0	123.2	140.2	154.1	163.3	160.2	152.5
85°	41.6	41.6	50.8	60.1	73.9	80.1	78.6	72.4	70.9	63.2	63.2
87.5°	10.8	10.8	15.4	16.9	13.9	15.4	15.4	15.4	15.4	15.4	16.9
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)