

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: P528588

Luminaire Tested: **GALN-SA3D-722-U-5NQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528588
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-SA3D-722-U-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2200K, 1200mA 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: 15291 lumens
Efficiency: N/A
Efficacy: 83.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

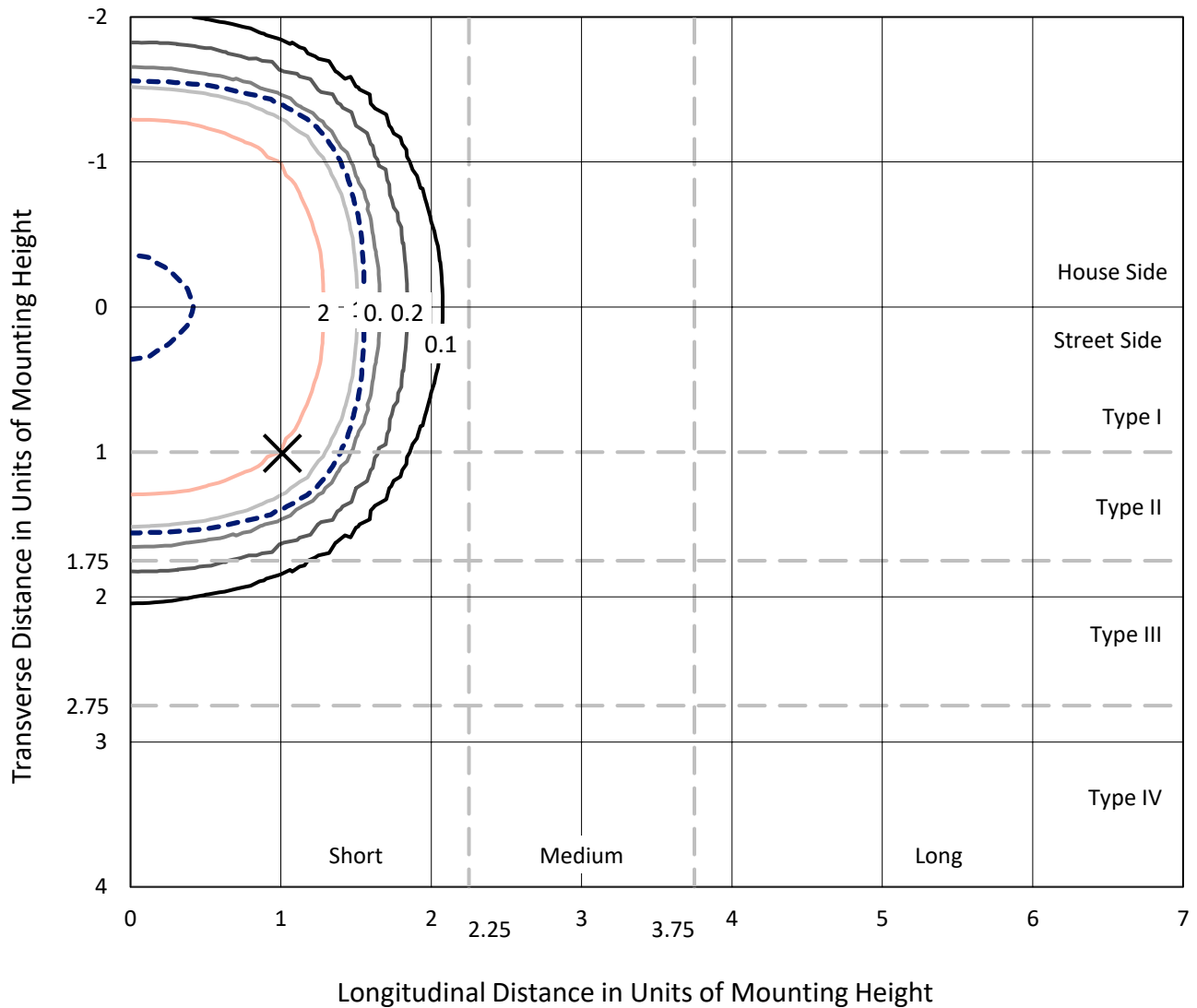
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

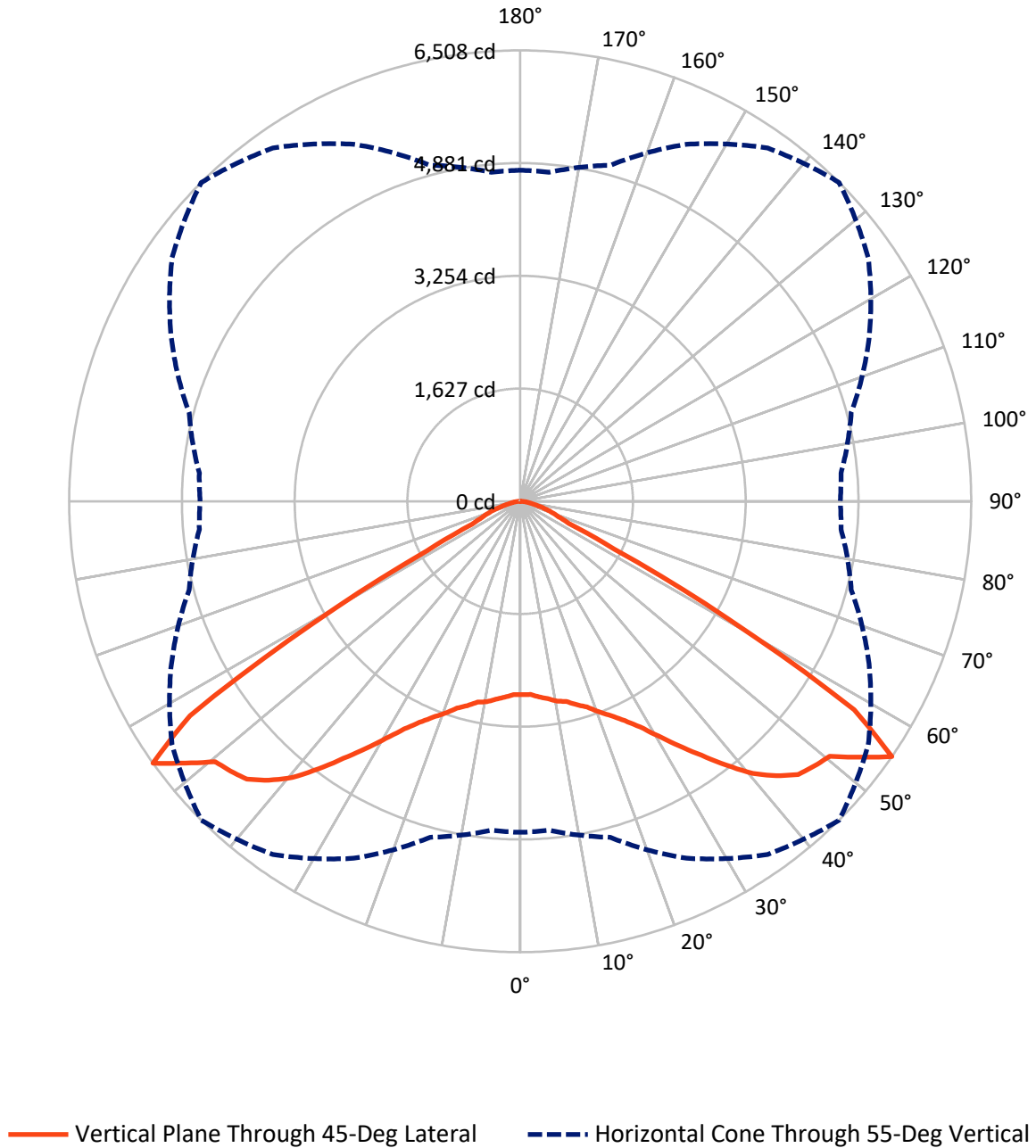
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 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	7645.5	0.0	7645.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7645.5	0.0	7645.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	15291.0	0.0	15291.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	272.7	1.8
10°-20°	864.2	5.7
20°-30°	1611.4	10.5
30°-40°	2698.1	17.6
40°-50°	4198.4	27.5
50°-60°	4359.3	28.5
60°-70°	924.5	6.0
70°-80°	304.5	2.0
80°-90°	58.0	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°	15291.0	100.0
0°-180°	15291.0	100.0



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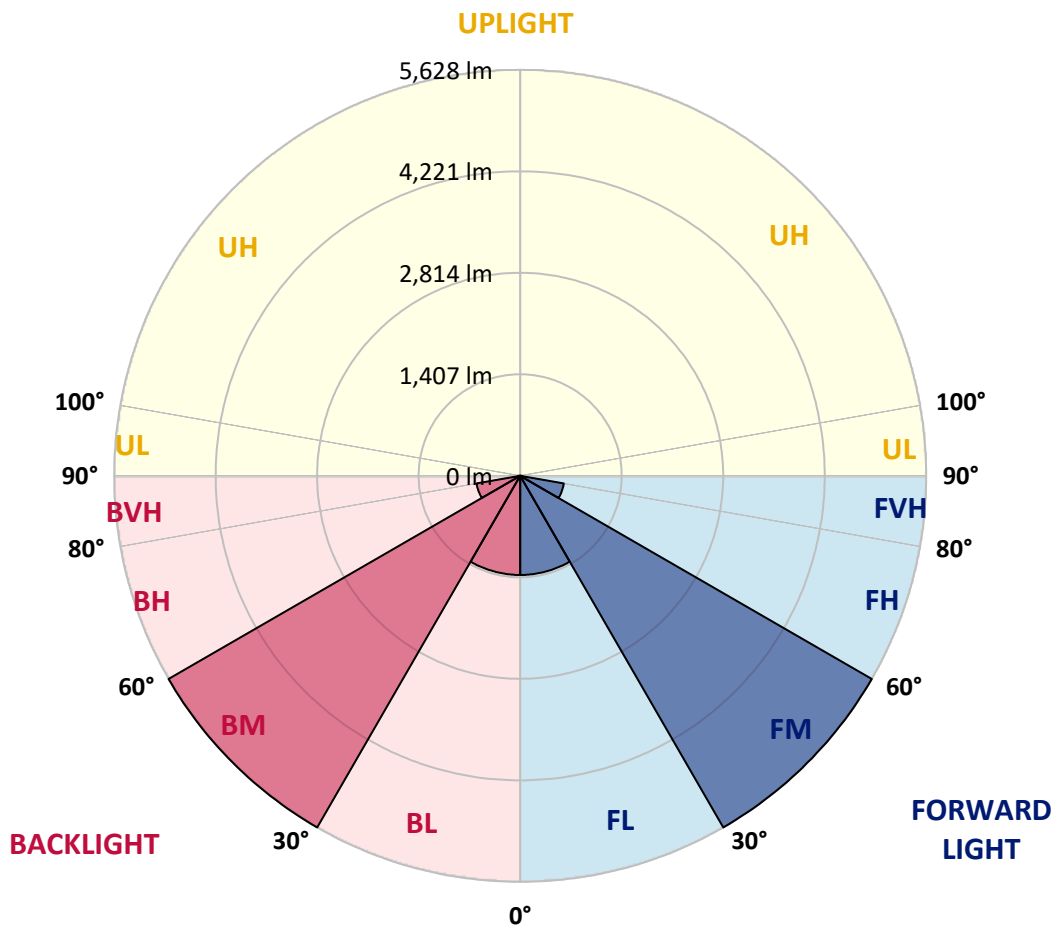
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1374.2	9.0			
FM (30°-60°)	5627.9	36.8			
FH (60°-80°)	614.5	4.0			G0/660
FVH (80°-90°)	29.0	0.2			G1/100
BL (0°-30°)	1374.2	9.0	B3/2500		
BM (30°-60°)	5627.9	36.8	B4/8500		
BH (60°-80°)	614.5	4.0	B2/1000		G0/660
BVH (80°-90°)	29.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	2791.9	2791.9	2791.9	2791.9	2791.9	2791.9	2791.9	2791.9	2791.9	2791.9	2791.9
2.5°	2825.2	2812.2	2790.1	2806.7	2819.6	2791.9	2803.0	2808.5	2804.8	2790.1	2795.6
5°	2865.8	2858.4	2839.9	2852.9	2836.3	2836.3	2825.2	2810.4	2832.6	2828.9	2838.1
7.5°	2865.8	2856.6	2893.5	2869.5	2876.9	2876.9	2858.4	2843.6	2854.7	2838.1	2828.9
10°	2923.1	2936.0	2919.4	2924.9	2921.2	2934.2	2906.5	2897.2	2888.0	2882.4	2871.4
12.5°	2991.5	2982.2	2987.8	2984.1	2997.0	2963.7	2947.1	2926.8	2943.4	2919.4	2936.0
15°	3046.9	3041.4	3046.9	3061.7	3048.7	3046.9	3017.3	2997.0	2971.1	2976.7	2950.8
17.5°	3122.7	3117.1	3119.0	3131.9	3130.0	3120.8	3098.6	3059.8	3050.6	3035.8	3019.2
20°	3235.4	3226.1	3222.4	3228.0	3237.2	3244.6	3200.3	3185.5	3154.1	3130.0	3102.3
22.5°	3331.4	3327.7	3342.5	3318.5	3338.8	3361.0	3318.5	3311.1	3233.5	3220.6	3191.0
25°	3464.5	3458.9	3449.7	3484.8	3508.8	3507.0	3466.3	3425.7	3366.6	3351.8	3351.8
27.5°	3604.9	3573.5	3621.5	3630.8	3673.3	3686.2	3651.1	3592.0	3536.5	3505.1	3512.5
30°	3780.4	3750.9	3762.0	3828.5	3883.9	3932.0	3843.3	3756.4	3678.8	3623.4	3614.1
32.5°	3956.0	3926.4	3959.7	4024.3	4135.2	4207.3	4120.4	3968.9	3878.4	3797.1	3813.7
35°	4098.2	4120.4	4174.0	4271.9	4386.5	4502.9	4364.3	4247.9	4118.6	4028.0	4041.0
37.5°	4327.4	4395.7	4438.2	4550.9	4713.5	4833.6	4689.5	4538.0	4399.4	4281.2	4240.5
40°	4626.7	4672.9	4720.9	4854.0	5046.1	5166.2	5029.5	4831.8	4695.1	4573.1	4567.6
42.5°	4955.6	4999.9	5049.8	5212.4	5327.0	5417.5	5291.9	5186.6	5035.0	4939.0	4933.4
45°	5338.1	5306.7	5362.1	5469.3	5565.3	5624.5	5543.2	5491.4	5382.4	5293.7	5284.5
47.5°	5593.1	5565.3	5665.1	5761.2	5776.0	5711.3	5727.9	5776.0	5661.4	5515.5	5561.6
50°	5740.9	5740.9	5807.4	5896.1	5868.4	5785.2	5916.4	5920.1	5805.5	5676.2	5676.2
52.5°	5484.0	5541.3	5729.8	6019.9	6112.3	6136.3	6106.7	5981.1	5681.7	5417.5	5404.6
55°	4778.2	4765.3	5020.3	5685.4	6223.1	6507.7	6130.7	5552.4	4944.5	4647.0	4617.5
57.5°	3107.9	3122.7	3503.3	4181.4	5151.5	5681.7	5046.1	4233.1	3503.3	3093.1	3131.9
60°	1398.7	1448.6	1679.6	2185.9	3019.2	3451.5	3026.6	2296.7	1762.7	1529.9	1550.2
62.5°	803.8	813.0	822.2	975.6	1286.0	1520.7	1335.9	1031.0	909.1	868.4	868.4
65°	678.1	672.6	674.4	687.4	720.6	768.7	748.3	720.6	724.3	720.6	715.1
67.5°	576.5	583.9	578.3	587.6	589.4	596.8	609.7	620.8	622.7	626.4	622.7
70°	473.0	474.9	478.6	486.0	487.8	493.3	511.8	521.1	526.6	526.6	534.0
72.5°	362.2	360.3	364.0	371.4	380.6	382.5	399.1	412.0	419.4	410.2	412.0
75°	238.4	240.2	245.7	251.3	264.2	277.2	282.7	295.6	297.5	301.2	291.9
77.5°	142.3	146.0	151.5	162.6	173.7	184.8	197.7	206.9	210.6	206.9	195.9
80°	92.4	92.4	99.8	109.0	121.9	131.2	138.6	146.0	151.5	146.0	142.3
82.5°	57.3	57.3	66.5	77.6	86.8	92.4	103.5	112.7	118.3	114.6	109.0
85°	29.6	31.4	38.8	48.0	55.4	59.1	57.3	51.7	46.2	44.3	40.6
87.5°	9.2	9.2	11.1	11.1	9.2	9.2	11.1	9.2	11.1	11.1	11.1
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)