

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: P528772

Luminaire Tested: **GALN-SA3D-827-U-5WQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528772
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-SA3D-827-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 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: 14403 lumens
Efficiency: N/A
Efficacy: 78.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

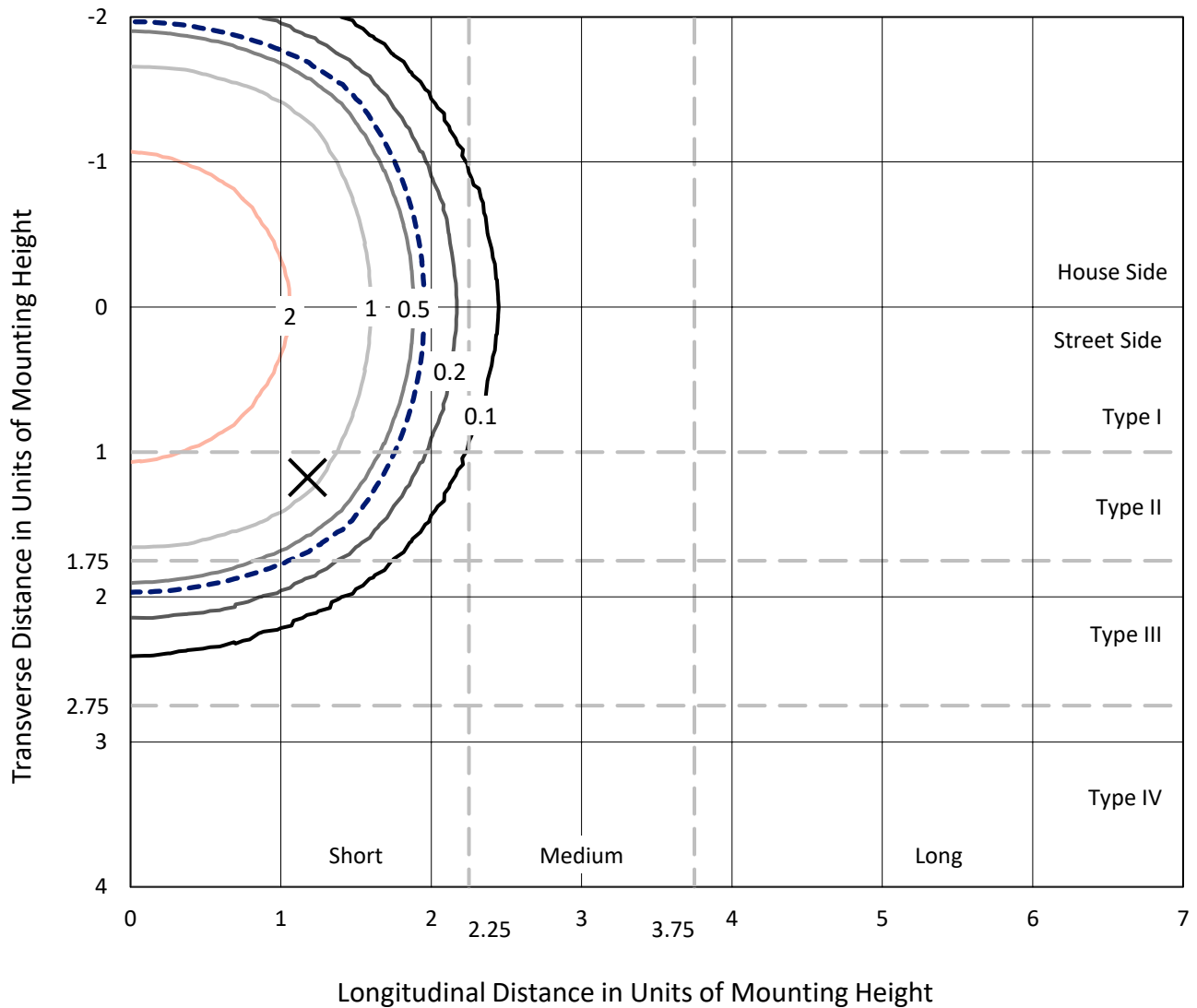
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

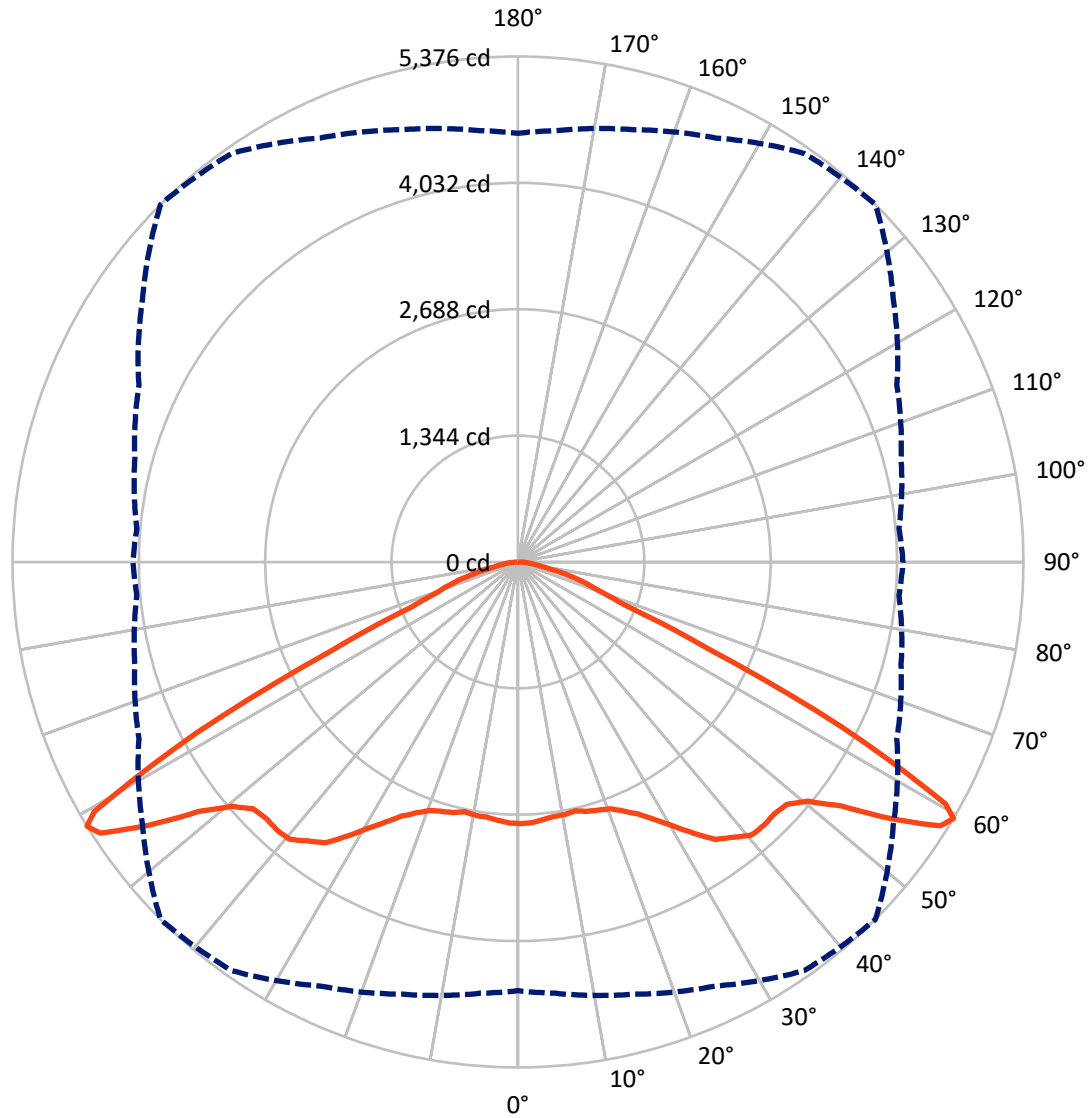
✕ Max cd
 - - - 1/2 Max cd



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



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 59-Deg Vertical

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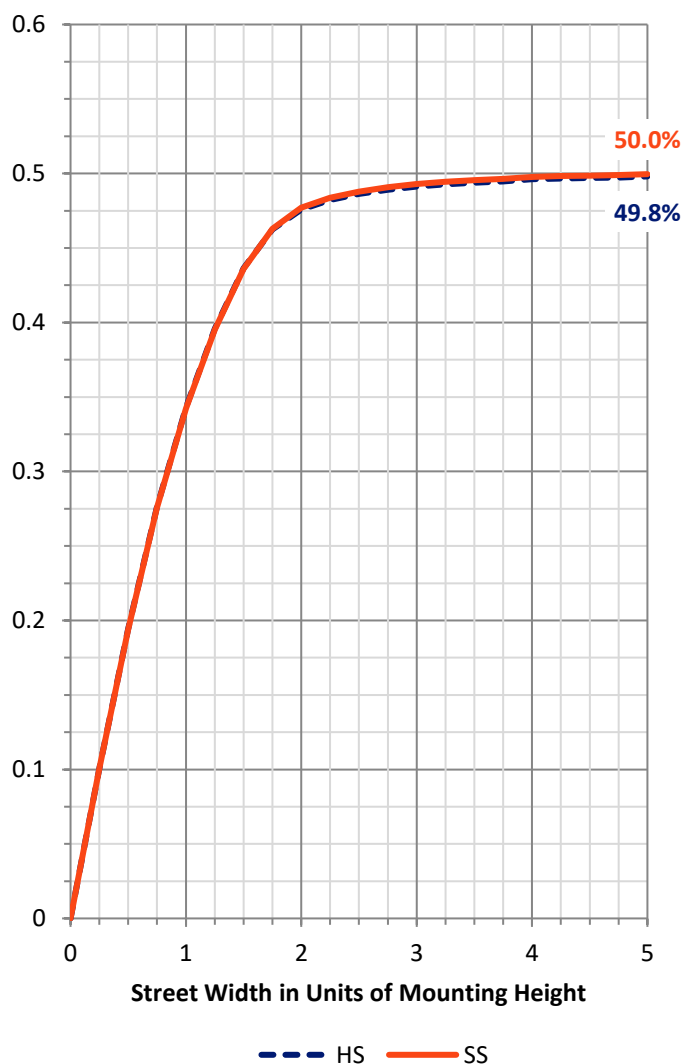
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7201.5	0.0	7201.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7201.5	0.0	7201.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	14403.0	0.0	14403.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.3	1.8
10°-20°	779.9	5.4
20°-30°	1361.8	9.5
30°-40°	2174.9	15.1
40°-50°	2962.7	20.6
50°-60°	4006.4	27.8
60°-70°	2197.1	15.3
70°-80°	562.1	3.9
80°-90°	95.9	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°	14403.0	100.0
0°-180°	14403.0	100.0

Coefficient of Utilization



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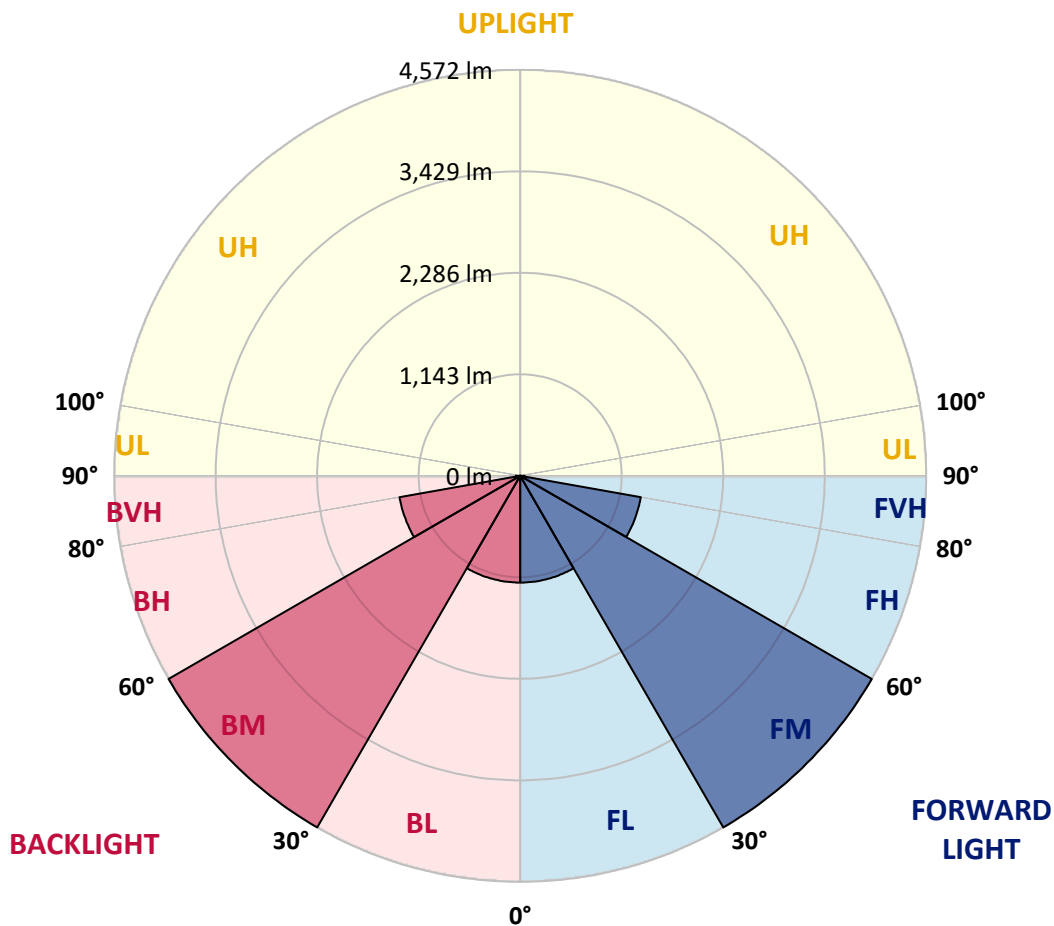
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1202.0	8.3			
FM (30°-60°)	4572.0	31.7			
FH (60°-80°)	1379.6	9.6			G1/1800
FVH (80°-90°)	47.9	0.3			G1/100
BL (0°-30°)	1202.0	8.3	B3/2500		
BM (30°-60°)	4572.0	31.7	B3/5000		
BH (60°-80°)	1379.6	9.6	B3/2500		G1/1800
BVH (80°-90°)	47.9	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°	2782.0	2782.0	2782.0	2782.0	2782.0	2782.0	2782.0	2782.0	2782.0	2782.0	2782.0
2.5°	2765.4	2785.7	2770.9	2783.8	2782.0	2776.4	2767.2	2761.7	2754.3	2765.4	2746.9
5°	2754.3	2770.9	2787.5	2765.4	2765.4	2754.3	2748.7	2737.7	2737.7	2735.8	2734.0
7.5°	2772.7	2756.1	2748.7	2752.4	2756.1	2732.1	2748.7	2726.6	2708.1	2721.1	2735.8
10°	2756.1	2763.5	2735.8	2748.7	2728.4	2732.1	2721.1	2735.8	2715.5	2715.5	2715.5
12.5°	2772.7	2752.4	2761.7	2752.4	2746.9	2715.5	2730.3	2713.7	2711.8	2730.3	2713.7
15°	2806.0	2772.7	2765.4	2746.9	2752.4	2752.4	2737.7	2739.5	2719.2	2730.3	2734.0
17.5°	2794.9	2776.4	2770.9	2748.7	2767.2	2772.7	2745.1	2726.6	2739.5	2737.7	2735.8
20°	2804.1	2811.5	2806.0	2809.7	2817.0	2802.3	2776.4	2750.6	2734.0	2758.0	2756.1
22.5°	2863.2	2855.8	2852.1	2848.4	2861.4	2876.1	2841.0	2800.4	2800.4	2817.0	2824.4
25°	2911.2	2909.3	2907.5	2924.1	2968.4	2968.4	2924.1	2872.4	2859.5	2870.6	2861.4
27.5°	2981.3	3001.6	2994.3	3023.8	3088.4	3103.2	3044.1	2983.2	2948.1	2935.2	2951.8
30°	3141.9	3117.9	3123.5	3154.9	3212.1	3260.1	3169.6	3105.0	3057.0	3055.2	3062.6
32.5°	3249.0	3267.5	3284.1	3313.6	3404.1	3441.0	3332.1	3226.9	3197.3	3180.7	3186.3
35°	3463.2	3446.5	3442.9	3472.4	3562.8	3623.8	3487.2	3394.9	3356.1	3393.0	3393.0
37.5°	3666.2	3620.1	3585.0	3623.8	3706.8	3714.2	3597.9	3548.1	3527.8	3570.2	3568.4
40°	3762.2	3758.5	3677.3	3699.4	3810.2	3821.3	3712.4	3653.3	3649.6	3705.0	3760.4
42.5°	3861.9	3826.8	3745.6	3760.4	3828.7	3832.4	3729.0	3712.4	3753.0	3806.5	3810.2
45°	3878.5	3849.0	3797.3	3760.4	3810.2	3821.3	3760.4	3771.4	3775.1	3839.7	3839.7
47.5°	3911.7	3908.1	3878.5	3850.8	3860.1	3850.8	3812.1	3828.7	3884.1	3915.4	3900.7
50°	4004.0	3965.3	3994.8	3970.8	3972.7	3998.5	3963.4	3980.0	3969.0	3941.3	3922.8
52.5°	4207.1	4188.6	4214.5	4231.1	4249.6	4308.6	4268.0	4179.4	4096.3	4022.5	4020.7
55°	4504.3	4517.2	4567.1	4652.0	4724.0	4818.1	4622.5	4410.2	4277.3	4161.0	4168.3
57.5°	4784.9	4775.7	4844.0	5037.8	5248.3	5296.3	4912.3	4609.5	4393.6	4319.7	4288.3
59°	4559.7	4604.0	4759.1	4975.1	5305.5	5375.6	4873.5	4447.1	4218.2	4068.7	4094.5
60°	4205.3	4221.9	4360.3	4661.2	5108.0	5228.0	4613.2	4196.0	3891.4	3804.7	3843.4
62.5°	2972.1	2959.2	3058.9	3304.4	3705.0	3867.4	3429.9	3136.4	2944.4	2848.4	2870.6
65°	1580.2	1639.3	1679.9	1833.1	2045.4	2217.1	2036.2	1908.8	1801.7	1722.3	1720.5
67.5°	1067.0	1059.6	1068.9	1103.9	1175.9	1223.9	1220.2	1155.6	1146.4	1131.6	1148.2
70°	899.0	895.3	878.7	878.7	893.5	904.6	917.5	924.9	939.6	958.1	956.2
72.5°	729.2	720.0	708.9	703.3	721.8	727.3	744.0	751.3	764.3	762.4	779.0
75°	481.8	481.8	494.7	509.5	515.0	526.1	528.0	550.1	550.1	553.8	539.0
77.5°	269.5	262.1	271.4	286.1	299.1	319.4	339.7	356.3	365.5	361.8	361.8
80°	156.9	156.9	166.1	182.8	199.4	217.8	232.6	245.5	254.8	251.1	243.7
82.5°	97.8	97.8	107.1	123.7	136.6	147.7	168.0	184.6	195.7	192.0	182.8
85°	49.8	49.8	60.9	72.0	88.6	96.0	94.1	86.8	84.9	75.7	75.7
87.5°	12.9	12.9	18.5	20.3	16.6	18.5	18.5	18.5	18.5	18.5	20.3
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)