

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: P528768

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528768
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-4)
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-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14984 lumens
Efficiency: N/A
Efficacy: 81.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

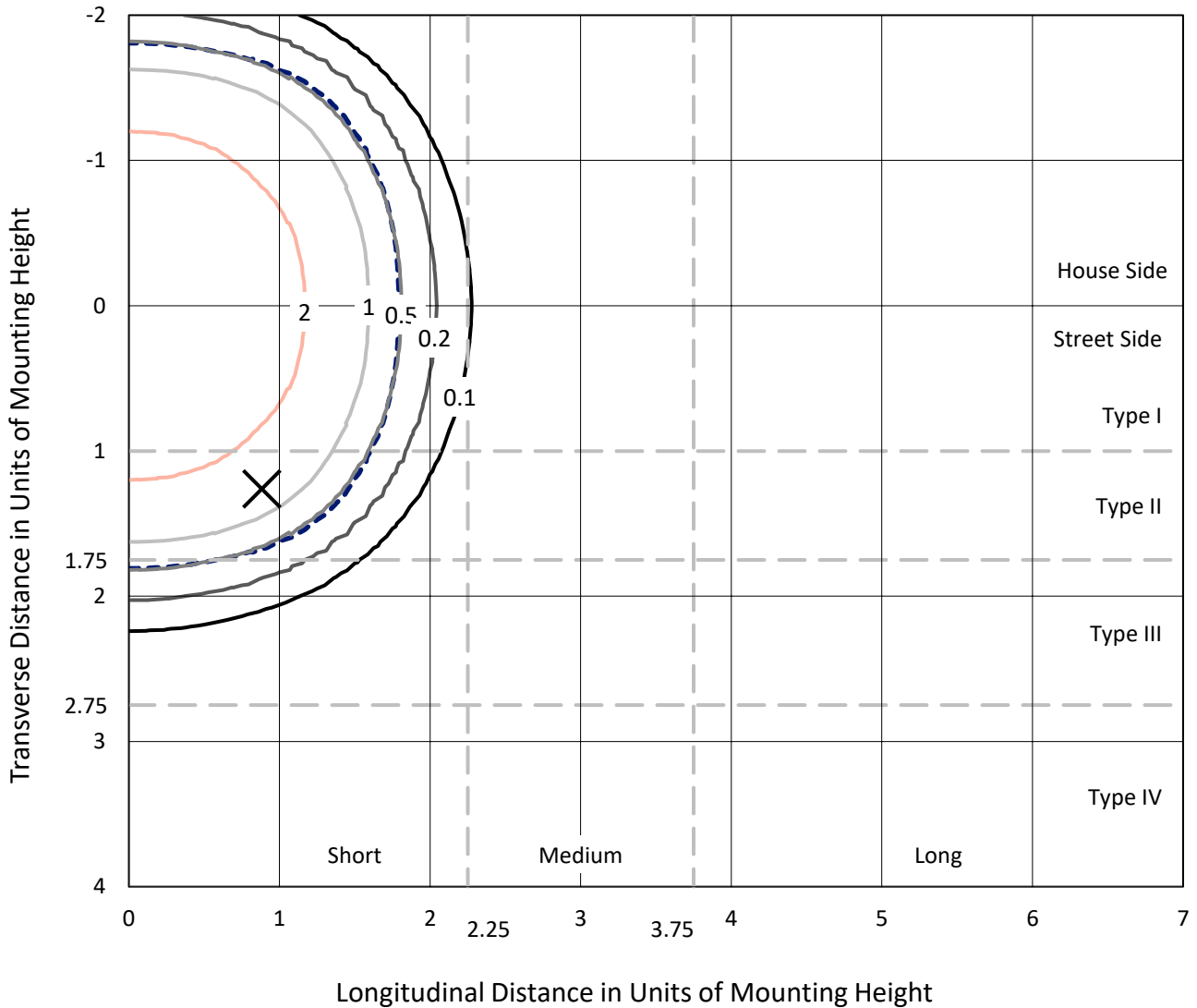
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P528768
 CATALOG NUMBER: GALN-SA3D-827-U-5MQ-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

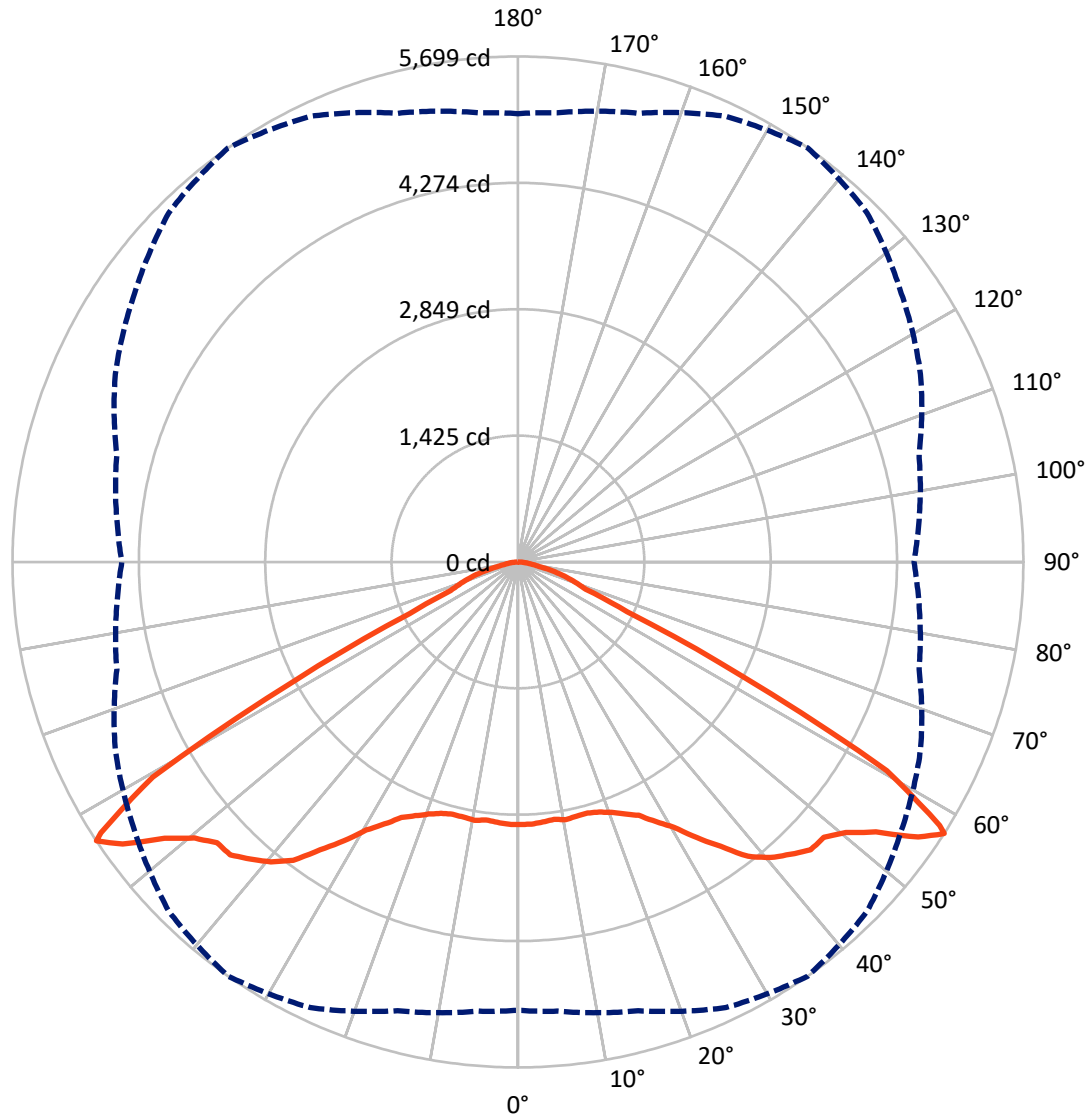
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type V - Short - N/A

REPORT NUMBER: P528768
CATALOG NUMBER: GALN-SA3D-827-U-5MQ-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

REPORT NUMBER: P528768

CATALOG NUMBER: GALN-SA3D-827-U-5MQ-GRSWH

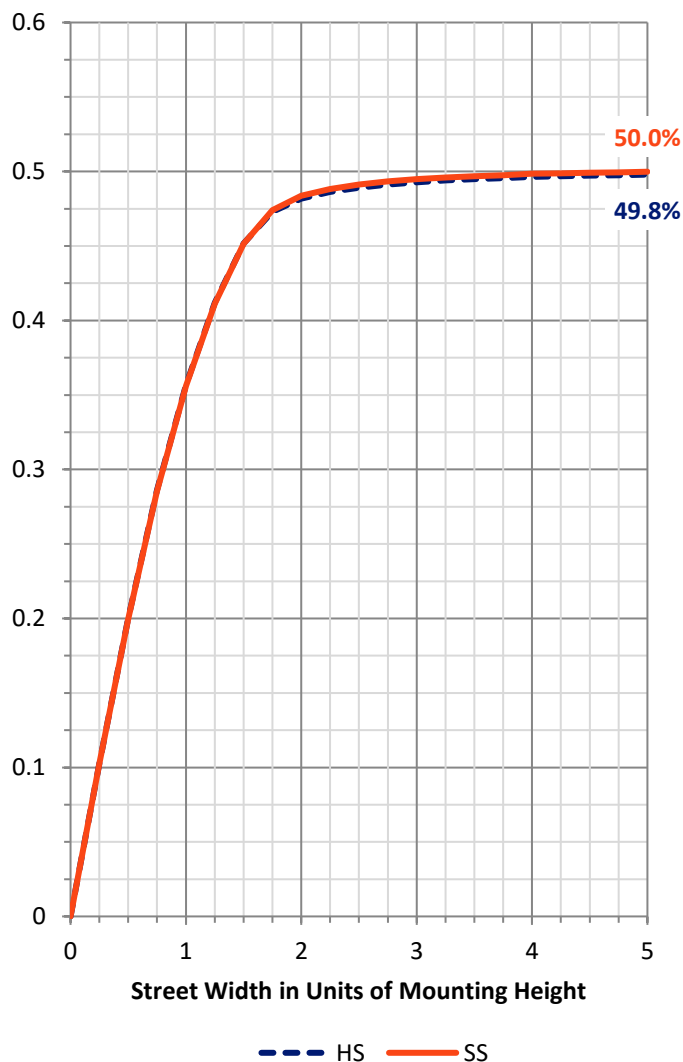
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7492.0	0.0	7492.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7492.0	0.0	7492.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	14984.0	0.0	14984.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.5	1.9
10°-20°	830.9	5.5
20°-30°	1451.2	9.7
30°-40°	2377.7	15.9
40°-50°	3486.4	23.3
50°-60°	4391.3	29.3
60°-70°	1651.5	11.0
70°-80°	439.1	2.9
80°-90°	75.3	0.5
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°	14984.0	100.0
0°-180°	14984.0	100.0

Coefficient of Utilization



REPORT NUMBER: P528768

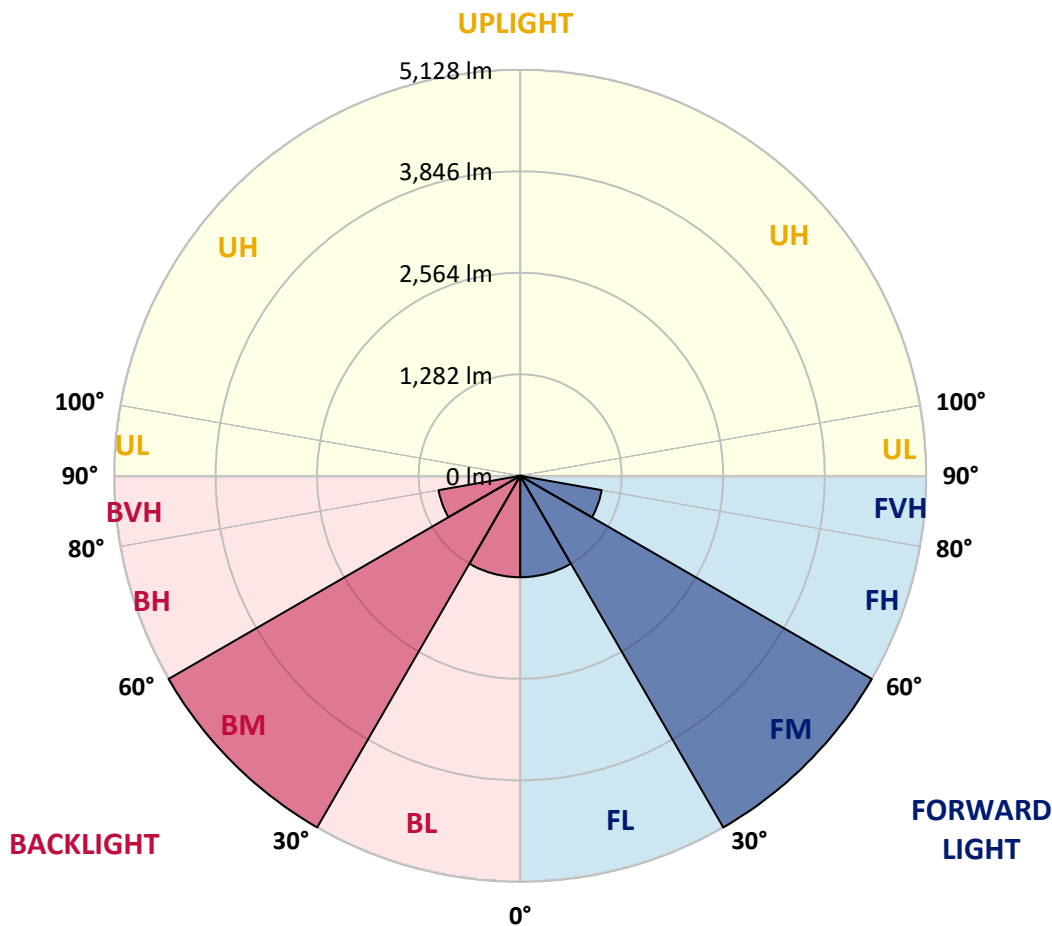
CATALOG NUMBER: GALN-SA3D-827-U-5MQ-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1281.3	8.6			
FM (30°-60°)	5127.7	34.2			
FH (60°-80°)	1045.3	7.0			G1/1800
FVH (80°-90°)	37.7	0.3			G1/100
BL (0°-30°)	1281.3	8.6	B3/2500		
BM (30°-60°)	5127.7	34.2	B4/8500		
BH (60°-80°)	1045.3	7.0	B3/2500		G1/1800
BVH (80°-90°)	37.7	0.3			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





REPORT NUMBER: P528768

CATALOG NUMBER: GALN-SA3D-827-U-5MQ-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2959.2	2959.2	2959.2	2959.2	2959.2	2959.2	2959.2	2959.2	2959.2	2959.2	2959.2
2.5°	2944.5	2974.0	2961.1	2953.7	2959.2	2950.0	2935.2	2951.8	2948.2	2933.4	2927.8
5°	2937.1	2959.2	2944.5	2959.2	2944.5	2970.3	2962.9	2935.2	2968.5	2937.1	2948.2
7.5°	2931.5	2938.9	2942.6	2935.2	2929.7	2961.1	2944.5	2931.5	2913.1	2907.5	2916.8
10°	2918.6	2937.1	2909.4	2946.3	2953.7	2931.5	2931.5	2907.5	2892.8	2883.5	2914.9
12.5°	2951.8	2920.5	2916.8	2935.2	2940.8	2950.0	2924.2	2911.2	2883.5	2887.2	2881.7
15°	2913.1	2926.0	2927.8	2931.5	2937.1	2959.2	2935.2	2907.5	2896.5	2857.7	2861.4
17.5°	2927.8	2914.9	2927.8	2970.3	2962.9	2979.5	2953.7	2911.2	2885.4	2863.2	2892.8
20°	2953.7	2948.2	2953.7	3005.4	3014.6	3029.4	3007.2	2968.5	2918.6	2892.8	2907.5
22.5°	2981.4	2977.7	2981.4	3031.2	3084.8	3103.2	3081.1	2990.6	2964.8	2916.8	2900.2
25°	3031.2	3034.9	3073.7	3129.1	3164.1	3199.2	3158.6	3094.0	3010.9	2981.4	2946.3
27.5°	3142.0	3151.2	3173.4	3254.6	3315.5	3346.9	3289.7	3201.1	3149.4	3088.5	3079.2
30°	3278.6	3278.6	3317.4	3387.5	3470.6	3518.6	3448.4	3343.2	3280.4	3247.2	3226.9
32.5°	3459.5	3439.2	3454.0	3577.7	3706.9	3747.5	3653.3	3524.1	3424.4	3380.1	3365.4
35°	3614.6	3627.5	3660.7	3793.6	3937.6	4031.8	3884.1	3716.1	3614.6	3574.0	3566.6
37.5°	3815.8	3838.0	3854.6	4037.3	4210.9	4245.9	4103.8	3969.0	3845.3	3812.1	3793.6
40°	4100.1	4085.3	4090.9	4225.6	4382.5	4404.7	4264.4	4168.4	4066.9	4046.6	4046.6
42.5°	4334.5	4317.9	4336.4	4386.2	4506.2	4489.6	4412.1	4341.9	4299.5	4277.3	4299.5
45°	4476.7	4473.0	4506.2	4543.1	4628.1	4572.7	4511.8	4522.8	4482.2	4445.3	4443.5
47.5°	4631.8	4607.8	4648.4	4703.8	4639.1	4613.3	4609.6	4633.6	4620.7	4556.1	4535.8
50°	4707.4	4698.2	4762.8	4827.4	4792.4	4733.3	4746.2	4785.0	4618.8	4532.1	4482.2
52.5°	4910.5	4912.4	5036.0	5071.1	5056.4	4969.6	4997.3	4892.1	4696.4	4574.5	4580.1
55°	5229.9	5217.0	5355.4	5458.8	5475.4	5364.6	5231.7	5084.0	4838.5	4714.8	4677.9
57°	5054.5	5084.0	5237.3	5543.7	5698.8	5567.7	5277.9	5008.4	4681.6	4532.1	4465.6
57.5°	4820.1	4868.1	5133.9	5442.2	5604.6	5593.6	5220.6	4868.1	4576.4	4343.8	4349.3
60°	3531.5	3540.7	3780.7	4269.9	4777.6	4788.7	4334.5	3867.5	3542.6	3289.7	3324.7
62.5°	1862.7	1905.1	2001.1	2394.3	2833.7	2940.8	2665.7	2425.7	2145.1	1953.1	1971.6
65°	985.8	980.3	1026.4	1137.2	1353.2	1408.5	1371.6	1181.5	1083.6	1052.3	1054.1
67.5°	801.2	810.4	804.9	810.4	825.2	849.2	843.6	851.0	856.6	865.8	864.0
70°	679.3	679.3	683.0	684.9	684.9	696.0	708.9	732.9	734.7	744.0	747.7
72.5°	535.4	531.7	537.2	550.1	552.0	561.2	579.7	594.4	600.0	600.0	588.9
75°	363.7	367.4	374.7	385.8	396.9	413.5	428.3	437.5	441.2	435.7	430.1
77.5°	204.9	208.6	214.1	230.8	243.7	258.4	275.1	284.3	293.5	295.4	284.3
80°	121.8	121.8	131.1	144.0	158.8	173.5	188.3	199.4	203.1	203.1	197.5
82.5°	73.8	75.7	83.1	96.0	108.9	118.1	131.1	140.3	147.7	145.8	142.1
85°	38.8	38.8	46.2	57.2	66.5	75.7	75.7	70.2	66.5	57.2	53.5
87.5°	12.9	11.1	14.8	14.8	12.9	14.8	14.8	16.6	16.6	16.6	16.6
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)