

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: STREETWORKS

Report Number: P850691

Luminaire Tested: **GLAN-SB8B-827-U-5WQ**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P850691
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB8B-827-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36722 lumens
Efficiency: N/A
Efficacy: 125.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

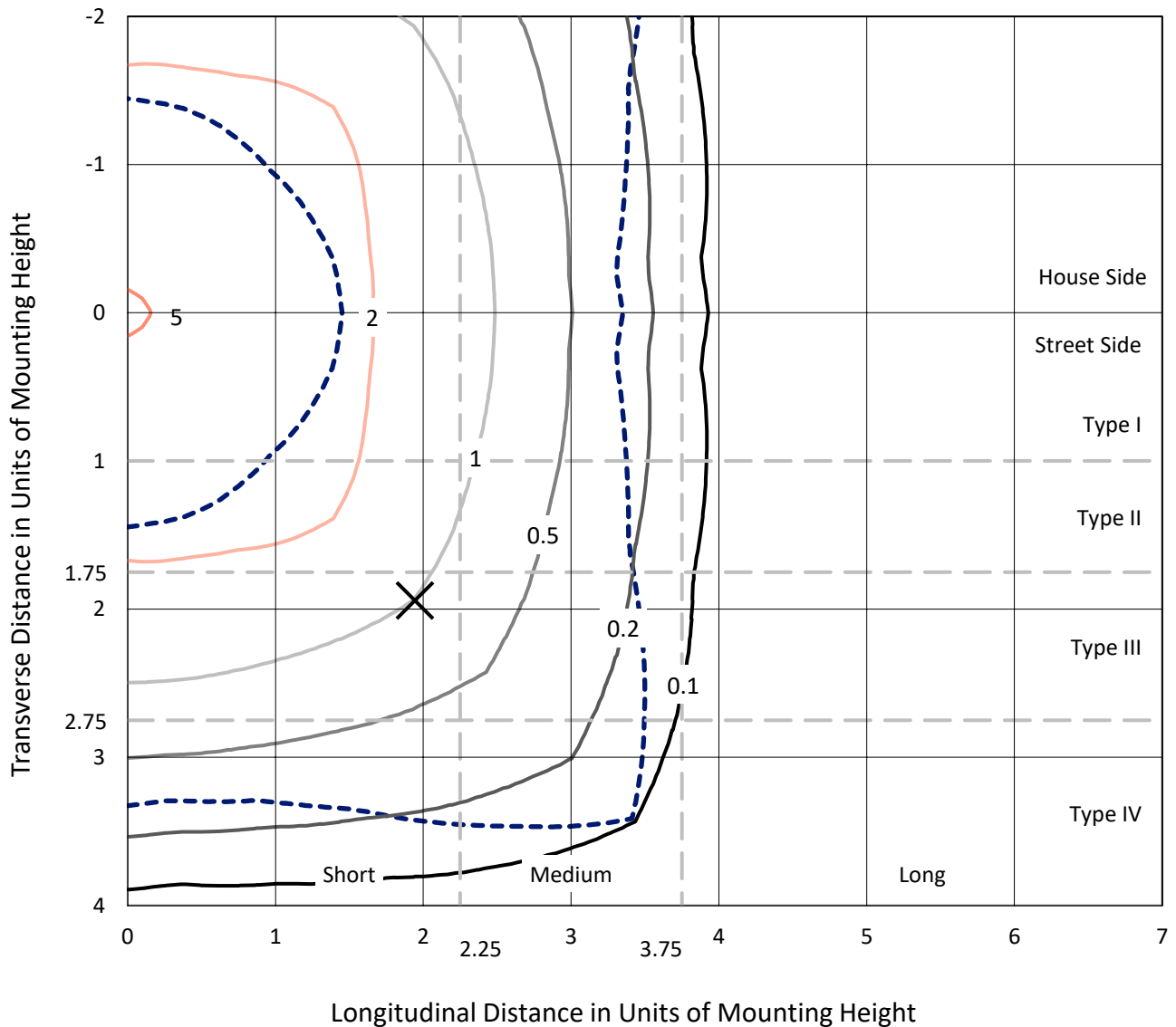
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P850691
 CATALOG NUMBER: GLAN-SB8B-827-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

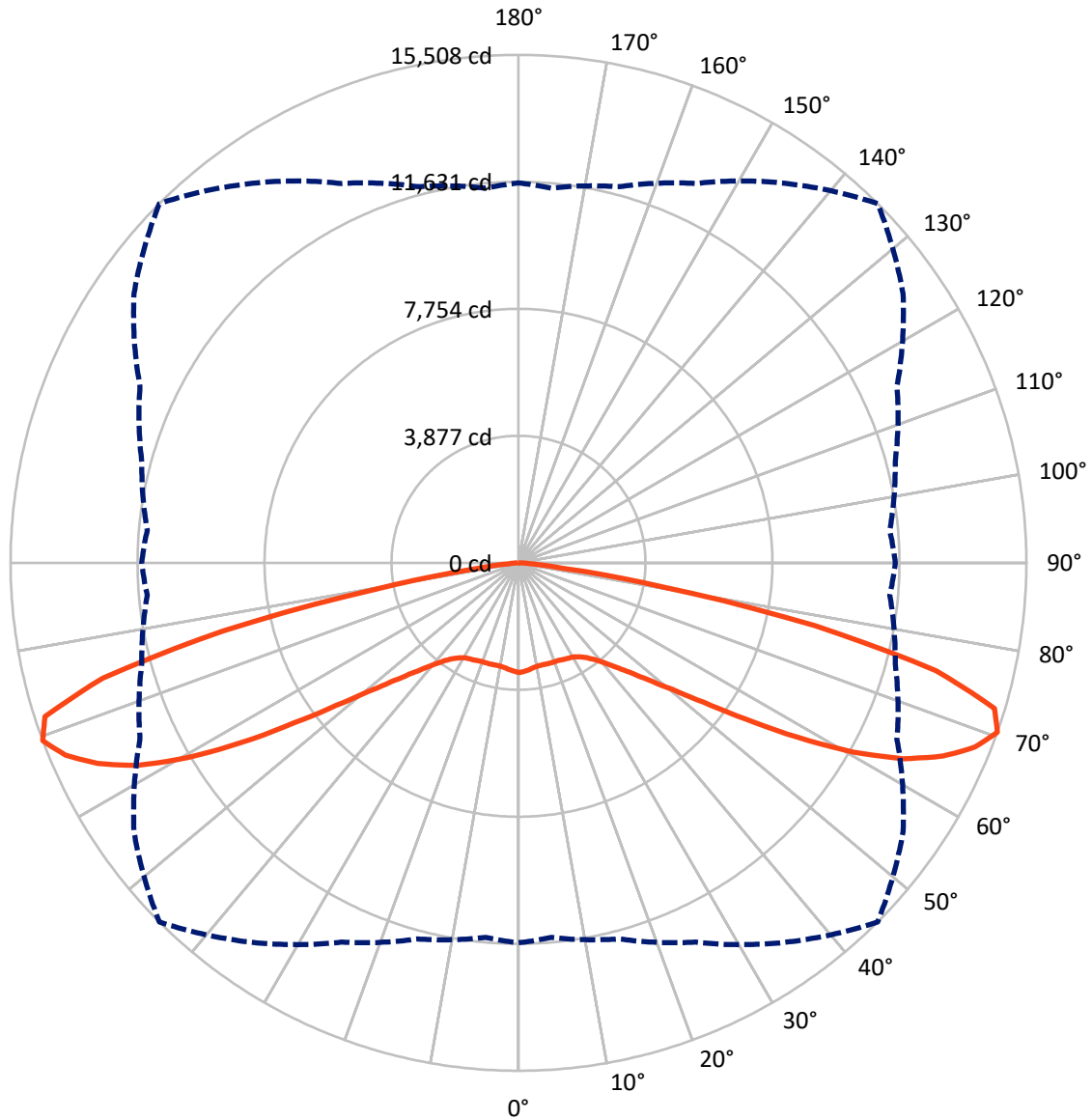
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type V - Short - N/A

REPORT NUMBER: P850691
CATALOG NUMBER: GLAN-SB8B-827-U-5WQ

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P850691
 CATALOG NUMBER: GLAN-SB8B-827-U-5WQ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18361.0	0.0	18361.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18361.0	0.0	18361.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	36722.0	0.0	36722.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	311.6	0.8
10°-20°	915.0	2.5
20°-30°	1522.6	4.1
30°-40°	2302.7	6.3
40°-50°	3826.5	10.4
50°-60°	7220.5	19.7
60°-70°	12192.0	33.2
70°-80°	8011.4	21.8
80°-90°	419.7	1.1
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°	36722.0	100.0
0°-180°	36722.0	100.0

Coefficient of Utilization



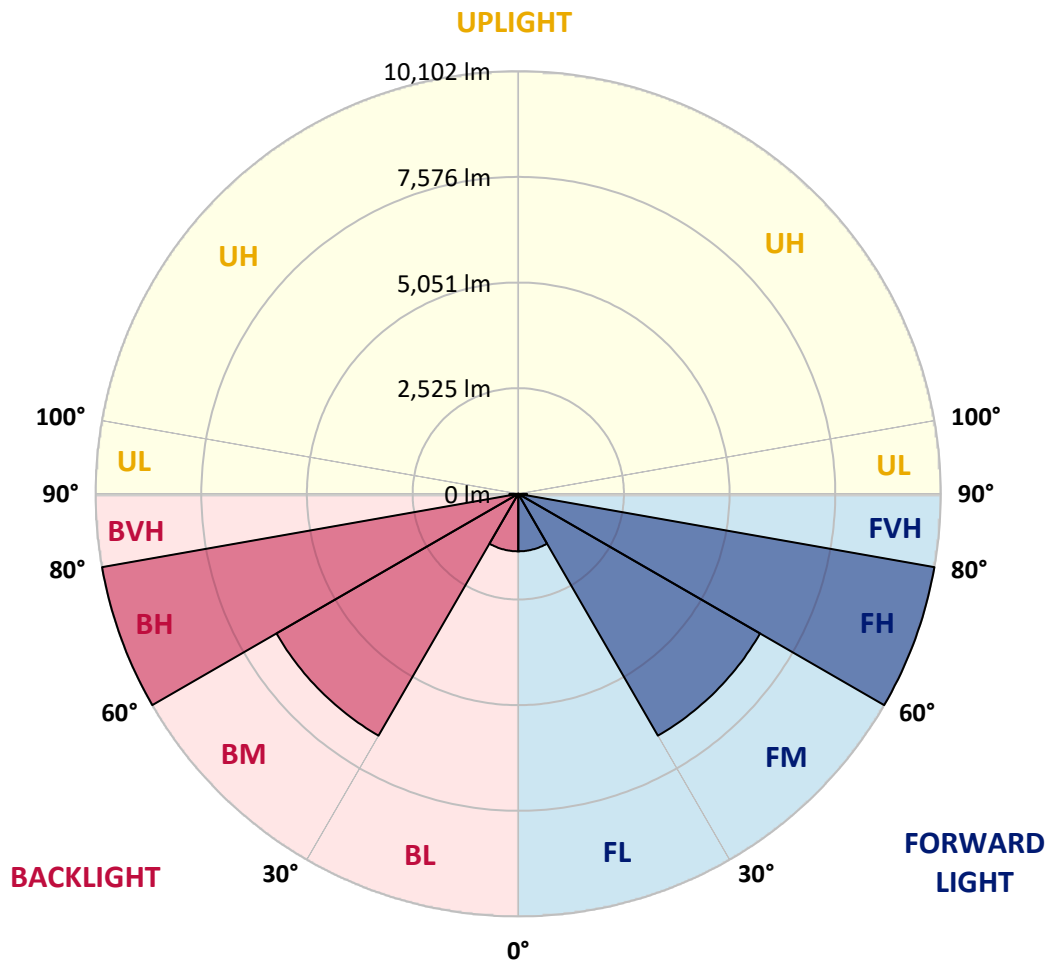
REPORT NUMBER: P850691
 CATALOG NUMBER: GLAN-SB8B-827-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1374.6	3.7			
FM (30°-60°)	6674.8	18.2			
FH (60°-80°)	10101.7	27.5			G4/12000
FVH (80°-90°)	209.9	0.6			G2/225
BL (0°-30°)	1374.6	3.7	B3/2500		
BM (30°-60°)	6674.8	18.2	B4/8500		
BH (60°-80°)	10101.7	27.5	B5		G4/12000
BVH (80°-90°)	209.9	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short



REPORT NUMBER: P850691
 CATALOG NUMBER: GLAN-SB8B-827-U-5WQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3349.8	3349.8	3349.8	3349.8	3349.8	3349.8	3349.8	3349.8	3349.8	3349.8
2.5°	3328.8	3338.3	3334.5	3326.9	3326.9	3321.2	3326.9	3330.7	3336.4	3340.2
5°	3284.9	3292.5	3290.6	3284.9	3286.8	3281.1	3284.9	3290.6	3294.4	3296.3
7.5°	3246.7	3254.4	3250.5	3241.0	3241.0	3235.3	3237.2	3242.9	3248.6	3250.5
10°	3237.2	3244.8	3233.4	3218.1	3212.4	3204.7	3206.6	3212.4	3223.8	3229.5
12.5°	3241.0	3246.7	3235.3	3212.4	3206.6	3199.0	3199.0	3204.7	3220.0	3227.6
15°	3252.4	3258.2	3241.0	3216.2	3210.4	3204.7	3202.8	3210.4	3227.6	3241.0
17.5°	3273.4	3279.2	3252.4	3218.1	3210.4	3212.4	3210.4	3216.2	3242.9	3267.7
20°	3292.5	3296.3	3260.1	3218.1	3210.4	3212.4	3210.4	3221.9	3256.3	3290.6
22.5°	3298.3	3302.1	3267.7	3231.4	3225.7	3227.6	3225.7	3237.2	3269.6	3304.0
25°	3300.2	3305.9	3279.2	3250.5	3260.1	3263.9	3260.1	3262.0	3286.8	3317.3
27.5°	3328.8	3336.4	3311.6	3286.8	3292.5	3290.6	3296.3	3302.1	3321.2	3351.7
30°	3388.0	3393.7	3372.7	3347.9	3344.1	3330.7	3347.9	3367.0	3388.0	3414.7
32.5°	3485.3	3496.8	3470.0	3443.3	3426.1	3418.5	3431.9	3464.3	3492.9	3521.6
35°	3647.5	3655.2	3630.4	3580.7	3550.2	3550.2	3561.7	3603.6	3649.5	3685.7
37.5°	3876.6	3886.1	3842.2	3783.1	3737.3	3737.3	3752.5	3796.4	3865.1	3916.7
40°	4155.3	4168.6	4113.3	4052.2	4008.3	4000.7	4019.7	4069.4	4134.3	4199.2
42.5°	4491.2	4506.5	4433.9	4380.5	4346.1	4346.1	4355.7	4401.5	4460.7	4540.8
45°	4920.7	4947.4	4848.1	4794.7	4762.2	4769.9	4775.6	4815.7	4869.1	4960.7
47.5°	5432.2	5458.9	5353.9	5298.6	5292.9	5329.1	5306.2	5334.8	5363.5	5468.5
50°	6012.4	6058.2	5985.7	5981.9	5993.3	6060.2	6006.7	6022.0	5989.5	6056.3
52.5°	6722.5	6789.3	6775.9	6798.8	6926.7	7064.1	6942.0	6888.5	6766.4	6787.4
55°	7583.3	7684.5	7703.6	7841.0	8131.1	8411.7	8152.1	7936.4	7676.8	7629.1
57.5°	8562.5	8642.6	8734.3	9014.8	9556.9	10055.1	9556.9	9079.7	8671.3	8573.9
60°	9616.1	9715.3	9803.1	10217.3	11022.8	11723.3	11007.5	10249.8	9709.6	9577.9
62.5°	10747.9	10875.8	10936.9	11396.9	12336.0	13172.0	12349.4	11431.3	10831.9	10690.7
65°	11834.0	11939.0	12007.7	12498.2	13395.3	14233.2	13456.4	12551.7	11935.2	11750.0
67.5°	12339.8	12397.1	12565.0	13120.5	14067.2	15023.5	14227.5	13179.6	12490.6	12166.1
70°	11599.2	11482.8	11887.4	12776.9	14147.4	15508.3	14330.6	12750.2	11906.5	11379.7
72.5°	8963.3	8762.9	9465.3	10986.5	13231.2	15199.1	13322.8	11072.4	9902.4	8833.5
75°	4876.8	4649.6	5619.2	7543.2	10551.3	13173.9	10793.8	7758.9	6256.8	4840.5
77.5°	1376.2	1290.3	2072.9	3649.5	6346.5	9249.6	6590.8	3729.6	2458.4	1458.3
80°	421.8	408.5	553.5	1099.4	2695.1	4430.1	2590.1	1112.8	704.3	444.7
82.5°	250.0	229.0	274.9	400.8	687.1	1391.4	668.0	418.0	335.9	225.2
85°	143.2	133.6	162.2	194.7	231.0	295.9	192.8	198.5	179.4	120.2
87.5°	59.2	53.4	63.0	61.1	53.4	68.7	51.5	61.1	72.5	47.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
3349.8
3338.3
3296.3
3250.5
3229.5
3229.5
3242.9
3267.7
3292.5
3304.0
3315.4
3344.1
3409.0
3510.1
3672.4
3897.6
4178.2
4535.1
4956.9
5437.9
6016.3
6716.7
7554.7
8505.2
9463.4
10576.2
11658.4
12169.9
11505.7
9098.8
5155.4
1620.5
469.5
244.3
126.0
43.9
0.0

OF REPORT)