

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: P851034

Luminaire Tested: **GLAN-SB8D-827-U-T1**

Issue Date: 6/26/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P851034  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 6/26/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB8D-827-U-T1  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 64903 lumens  
Efficiency: N/A  
Efficacy: 111.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G5

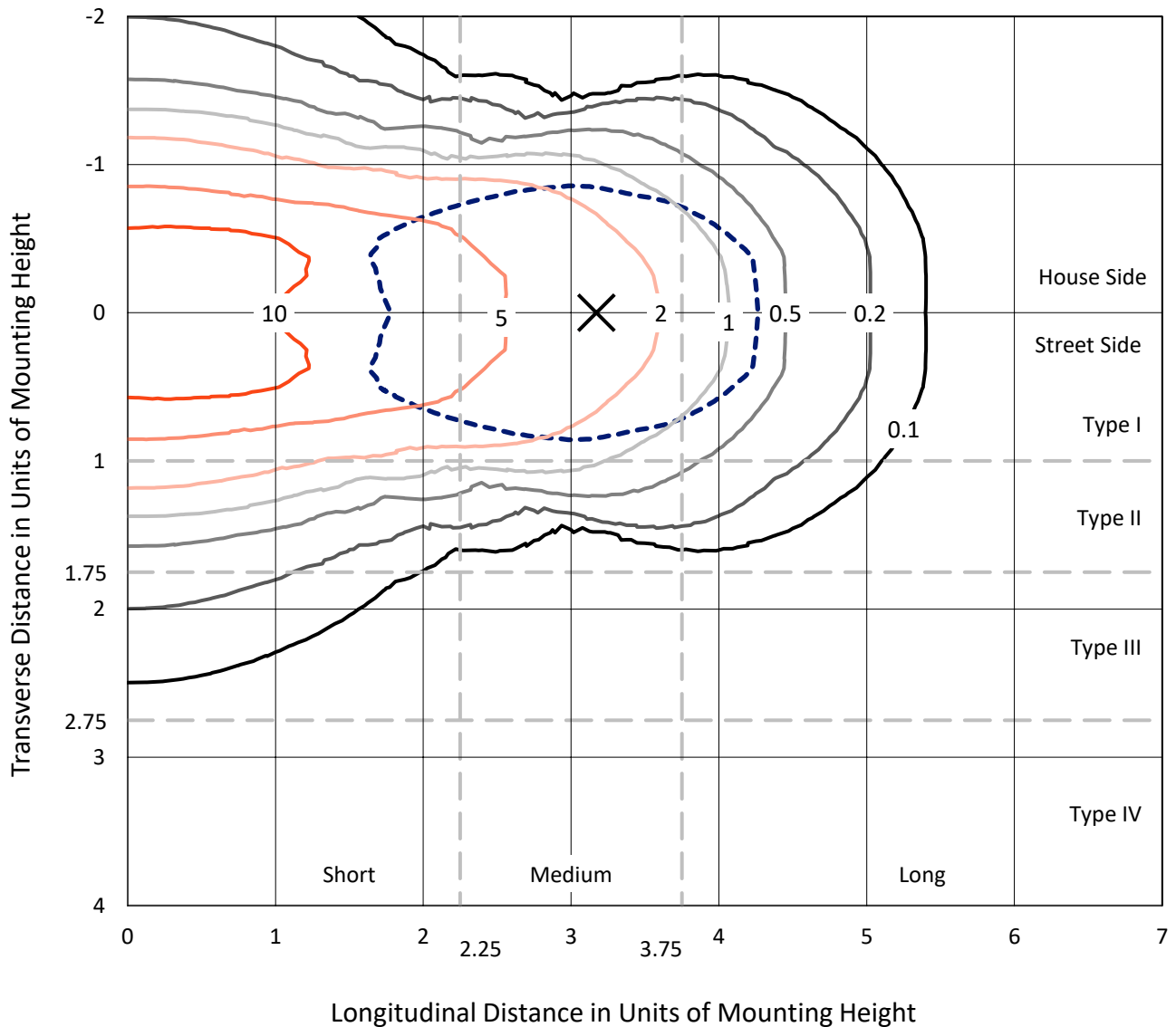
Input Watts (W): 584.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

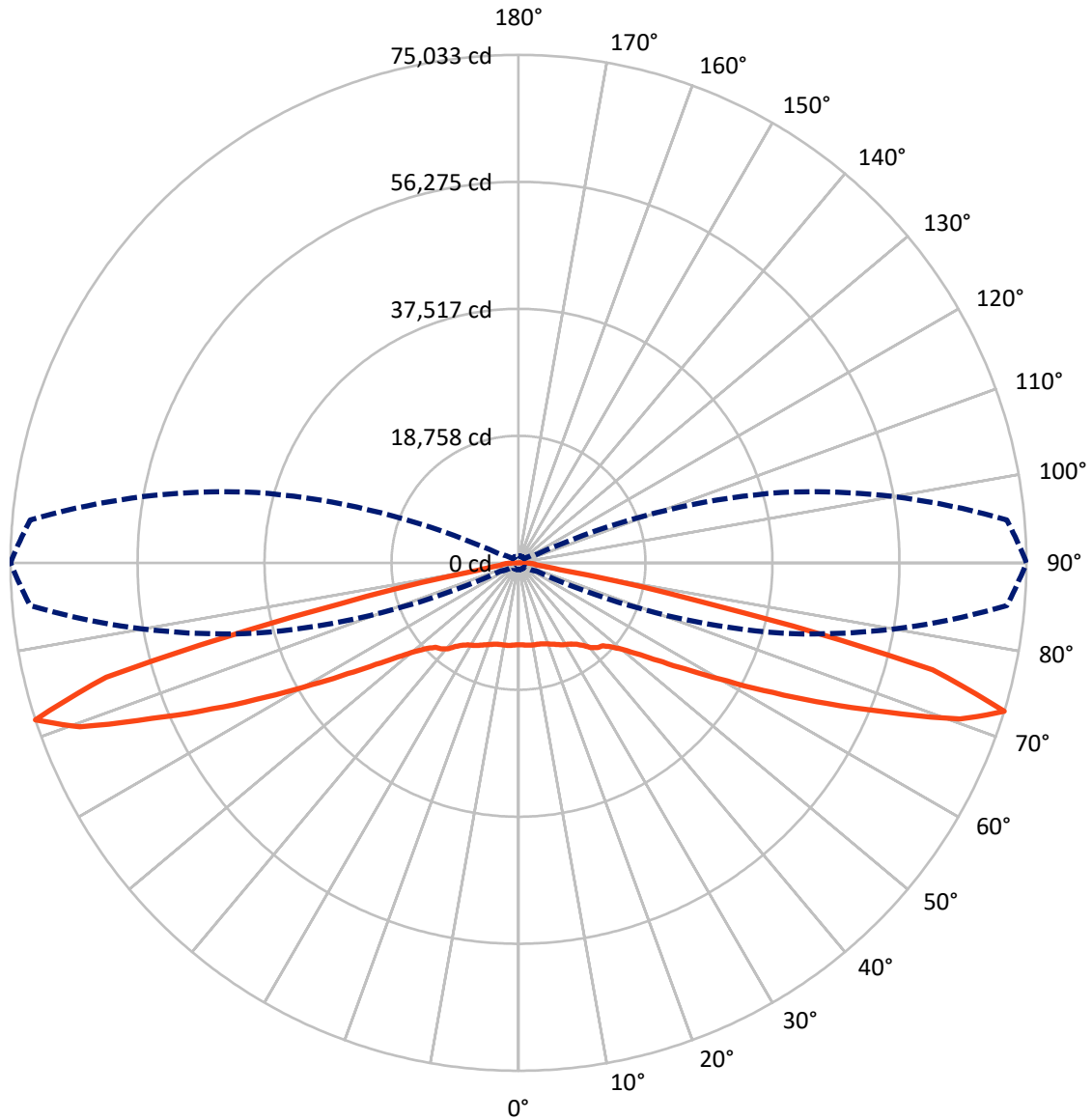
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.4 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	32451.5	0.0	32451.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	32451.5	0.0	32451.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	64903.0	0.0	64903.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1175.9	1.8
10°-20°	3595.5	5.5
20°-30°	5995.3	9.2
30°-40°	8245.3	12.7
40°-50°	10069.8	15.5
50°-60°	11646.8	17.9
60°-70°	13886.9	21.4
70°-80°	9692.1	14.9
80°-90°	595.3	0.9
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°	64903.0	100.0
0°-180°	64903.0	100.0

**Coefficient of Utilization**



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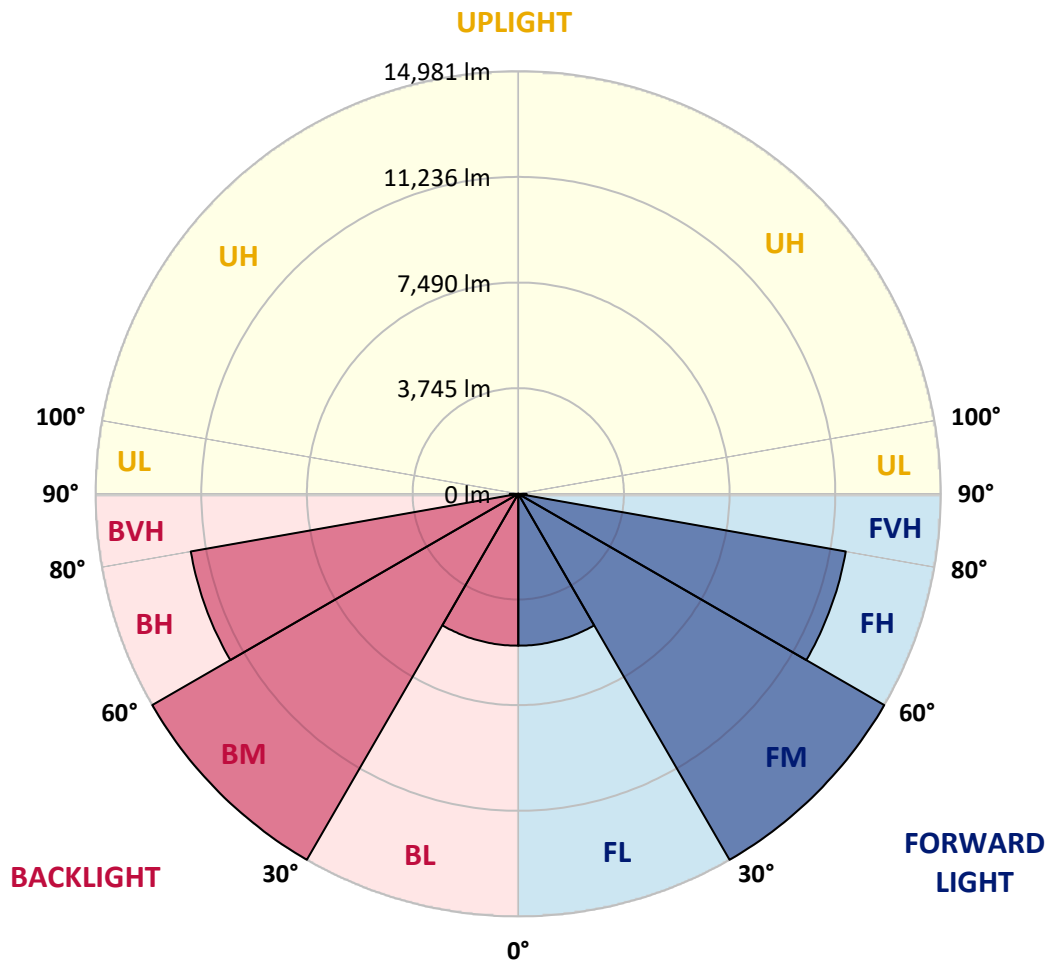
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5383.4	8.3			
FM (30°-60°)	14981.0	23.1			
FH (60°-80°)	11789.5	18.2			G4/12000
FVH (80°-90°)	297.6	0.5			G3/500
BL (0°-30°)	5383.4	8.3	B5		
BM (30°-60°)	14981.0	23.1	B5		
BH (60°-80°)	11789.5	18.2	B5		G5
BVH (80°-90°)	297.6	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**

Type I Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	12127.8	12127.8	12127.8	12127.8	12127.8	12127.8	12127.8	12127.8	12127.8	12127.8
2.5°	12138.2	12152.0	12152.0	12141.6	12165.8	12145.1	12145.1	12134.7	12145.1	12134.7
5°	12200.2	12217.5	12224.4	12220.9	12252.0	12234.7	12234.7	12220.9	12224.4	12214.0
7.5°	12317.5	12341.7	12355.5	12372.7	12417.6	12396.9	12383.1	12341.7	12324.4	12296.8
10°	12355.5	12383.1	12427.9	12517.6	12621.1	12624.5	12583.1	12479.6	12400.3	12338.2
12.5°	12238.2	12276.1	12369.3	12552.1	12783.2	12876.3	12810.8	12638.3	12483.1	12372.7
15°	12089.9	12131.3	12272.7	12548.6	12890.1	13107.4	13100.5	12872.9	12624.5	12452.0
17.5°	11858.8	11900.2	12103.7	12490.0	12972.9	13331.6	13428.2	13193.7	12845.3	12614.2
20°	11441.4	11479.3	11762.2	12303.7	13000.5	13569.6	13821.4	13614.5	13179.9	12866.0
22.5°	10899.9	10958.5	11289.6	11982.9	12935.0	13818.0	14269.8	14128.4	13569.6	13135.0
25°	10320.4	10382.5	10768.8	11589.7	12765.9	13997.3	14801.0	14711.4	14011.1	13469.6
27.5°	9820.2	9885.8	10306.6	11199.9	12503.8	14066.3	15325.3	15370.2	14545.8	13838.7
30°	9427.0	9489.1	9937.5	10886.1	12165.8	13997.3	15784.1	16094.5	15090.8	14159.5
32.5°	8995.8	9075.2	9547.7	10503.2	11765.6	13831.8	16184.2	16877.5	15722.0	14504.4
35°	8450.8	8523.3	9020.0	9978.9	11241.3	13566.2	16518.8	17746.8	16625.7	15028.7
37.5°	7788.6	7857.6	8350.8	9323.5	10720.5	13193.7	16774.0	18726.4	17701.9	15784.1
40°	7122.8	7188.4	7650.6	8592.3	10096.2	12717.6	16863.7	19685.3	18936.8	16822.3
42.5°	6512.3	6571.0	6995.2	7871.3	9395.9	12110.6	16746.5	20520.0	20044.0	17546.7
45°	5950.1	6001.8	6377.8	7195.3	8668.1	11372.4	16394.6	21416.8	21361.6	18064.1
47.5°	5308.5	5360.2	5750.0	6539.9	7940.3	10506.6	15797.9	22299.9	23193.2	19236.9
50°	4525.5	4570.3	4970.5	5784.5	7184.9	9585.7	14970.1	22993.2	25504.3	21013.3
52.5°	3597.6	3645.9	4035.7	4849.7	6288.1	8595.7	13880.1	23445.0	28174.0	23607.1
55°	2676.7	2711.2	3049.2	3780.5	5177.4	7467.8	12514.1	23572.7	31202.6	27153.1
57.5°	1942.0	1962.7	2180.0	2725.0	3925.3	6057.0	10855.0	23241.5	34807.1	31699.3
60°	1572.9	1579.8	1645.3	1886.8	2728.4	4463.4	8851.0	22103.2	38718.6	37559.7
62.5°	1428.0	1428.0	1445.3	1510.8	1845.4	2945.7	6426.1	19743.9	42913.0	44965.3
65°	1328.0	1328.0	1334.9	1365.9	1455.6	1876.4	4056.4	15901.4	46448.5	53640.4
67.5°	1238.3	1241.8	1238.3	1248.7	1300.4	1386.6	2352.4	10982.6	48352.6	62629.3
70°	1145.2	1152.1	1134.8	1134.8	1176.2	1179.7	1472.9	6022.5	46772.8	70162.6
72.5°	1034.8	1045.1	1017.5	1010.7	1041.7	1027.9	1107.2	2890.5	40157.0	72411.6
75°	938.2	952.0	889.9	872.7	872.7	862.3	900.3	1483.2	26063.1	59069.6
77.5°	852.0	879.6	779.5	724.4	710.6	679.5	734.7	907.2	11400.0	27732.5
80°	703.7	741.6	641.6	576.0	551.9	517.4	579.5	634.7	3390.7	6439.9
82.5°	524.3	541.5	455.3	410.5	389.8	365.6	434.6	441.5	1103.8	2280.0
85°	334.6	341.5	279.4	241.5	231.1	220.8	275.9	241.5	420.8	1676.4
87.5°	117.3	134.5	106.9	96.6	103.5	86.2	127.6	72.4	117.3	1183.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°

12127.8  
12134.7  
12214.0  
12296.8  
12327.9  
12355.5  
12424.5  
12576.2  
12807.3  
13055.7  
13359.2  
13721.4  
13990.4  
14290.5  
14790.7  
15466.8  
16484.3  
17112.1  
17477.7  
18560.8  
20164.7  
22562.0  
25845.8  
30053.9  
35486.6  
42188.6  
50129.0  
58838.5  
69165.8  
75033.1  
63181.2  
27156.5  
6167.4  
2576.6  
2435.2  
1466.0  
0.0

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