

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: P848311

Luminaire Tested: **GLAN-SB4D-827-U-5WQ**

Issue Date: 6/26/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P848311  
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-SB4D-827-U-5WQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 32891 lumens  
Efficiency: N/A  
Efficacy: 112.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

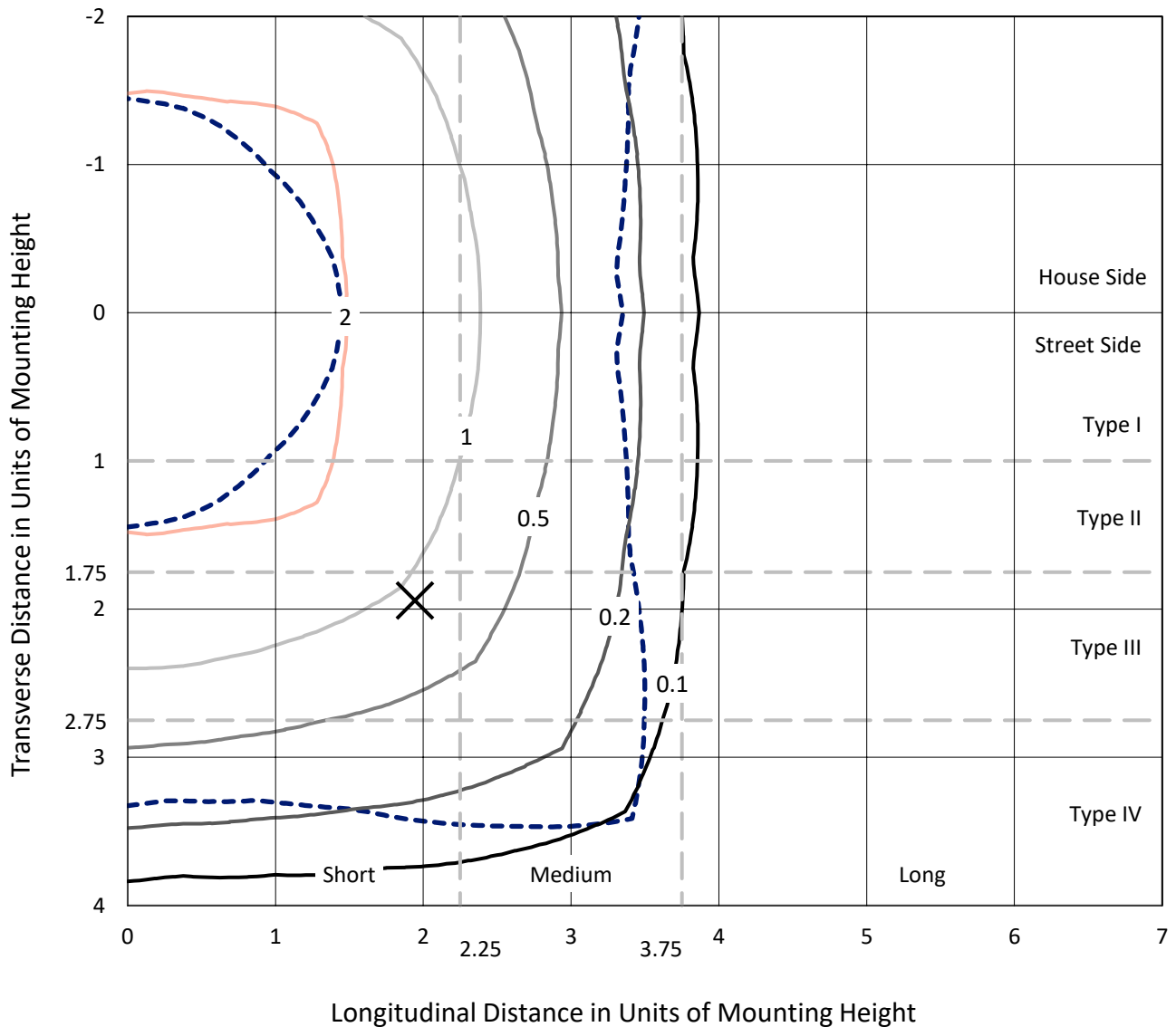
Input Watts (W): 293.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

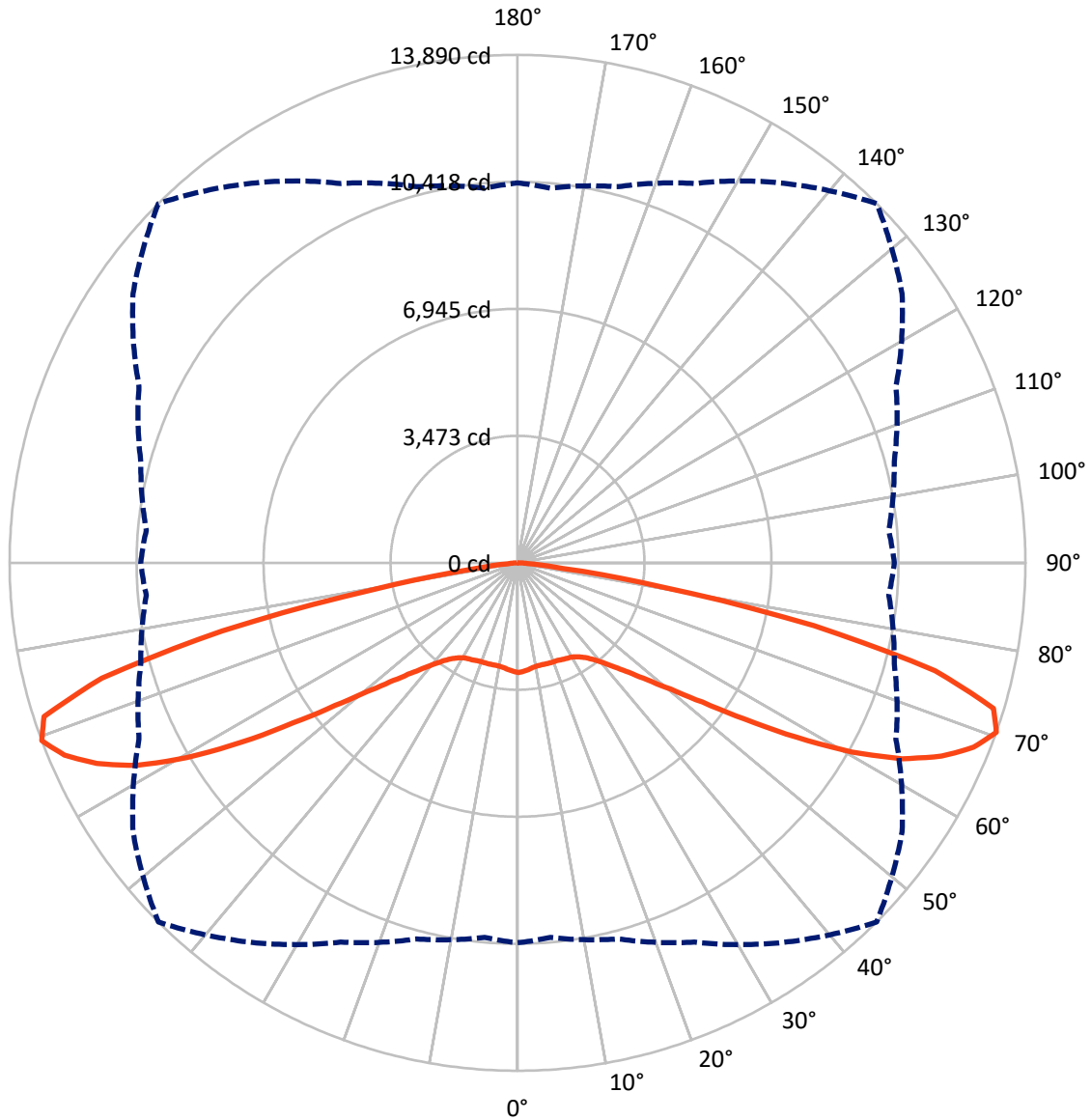
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



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

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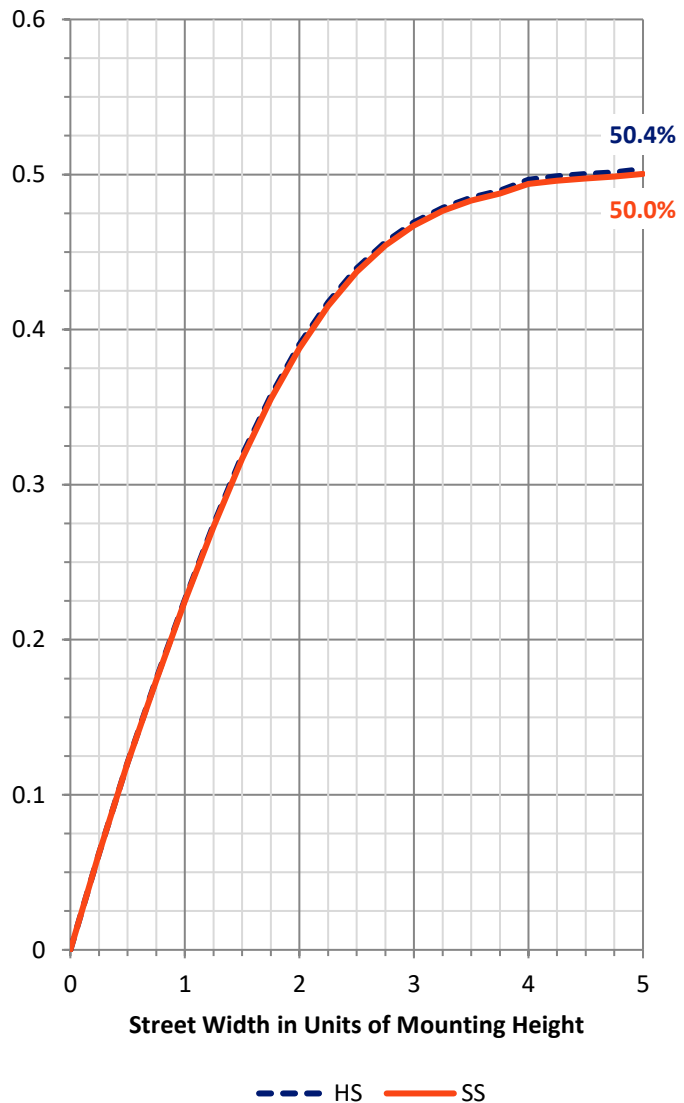
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	16445.5	0.0	16445.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	16445.5	0.0	16445.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	32891.0	0.0	32891.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	279.1	0.8
10°-20°	819.5	2.5
20°-30°	1363.8	4.1
30°-40°	2062.4	6.3
40°-50°	3427.3	10.4
50°-60°	6467.2	19.7
60°-70°	10920.1	33.2
70°-80°	7175.6	21.8
80°-90°	375.9	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°	32891.0	100.0
0°-180°	32891.0	100.0

**Coefficient of Utilization**



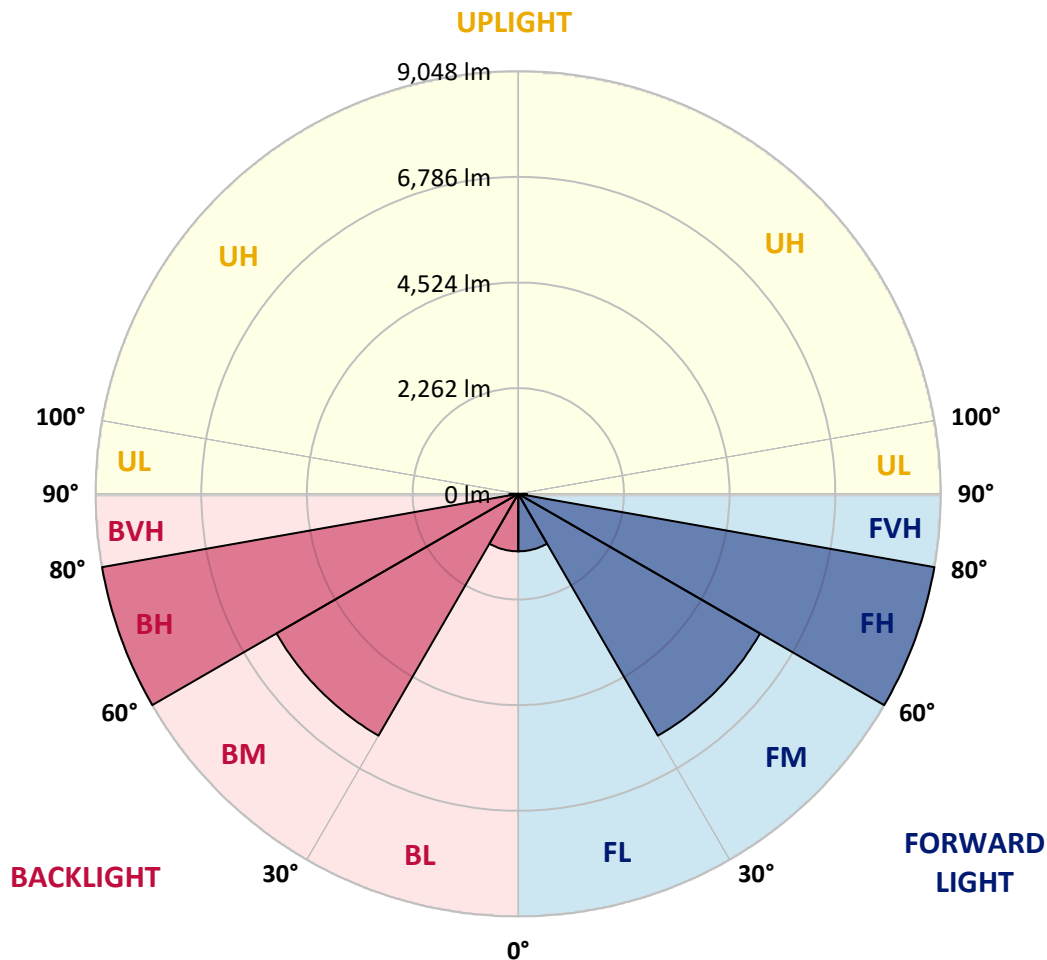
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1231.2	3.7			
FM (30°-60°)	5978.5	18.2			
FH (60°-80°)	9047.9	27.5			G4/12000
FVH (80°-90°)	188.0	0.6			G2/225
BL (0°-30°)	1231.2	3.7	B3/2500		
BM (30°-60°)	5978.5	18.2	B4/8500		
BH (60°-80°)	9047.9	27.5	B5		G4/12000
BVH (80°-90°)	188.0	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



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3000.3	3000.3	3000.3	3000.3	3000.3	3000.3	3000.3	3000.3	3000.3	3000.3
2.5°	2981.5	2990.1	2986.6	2979.8	2979.8	2974.7	2979.8	2983.2	2988.4	2991.8
5°	2942.2	2949.0	2947.3	2942.2	2943.9	2938.8	2942.2	2947.3	2950.7	2952.5
7.5°	2908.0	2914.8	2911.4	2902.9	2902.9	2897.7	2899.5	2904.6	2909.7	2911.4
10°	2899.5	2906.3	2896.0	2882.4	2877.2	2870.4	2872.1	2877.2	2887.5	2892.6
12.5°	2902.9	2908.0	2897.7	2877.2	2872.1	2865.3	2865.3	2870.4	2884.1	2890.9
15°	2913.1	2918.3	2902.9	2880.7	2875.5	2870.4	2868.7	2875.5	2890.9	2902.9
17.5°	2931.9	2937.1	2913.1	2882.4	2875.5	2877.2	2875.5	2880.7	2904.6	2926.8
20°	2949.0	2952.5	2920.0	2882.4	2875.5	2877.2	2875.5	2885.8	2916.6	2947.3
22.5°	2954.2	2957.6	2926.8	2894.3	2889.2	2890.9	2889.2	2899.5	2928.5	2959.3
25°	2955.9	2961.0	2937.1	2911.4	2920.0	2923.4	2920.0	2921.7	2943.9	2971.3
27.5°	2981.5	2988.4	2966.1	2943.9	2949.0	2947.3	2952.5	2957.6	2974.7	3002.0
30°	3034.5	3039.6	3020.8	2998.6	2995.2	2983.2	2998.6	3015.7	3034.5	3058.4
32.5°	3121.7	3132.0	3108.0	3084.1	3068.7	3061.9	3073.8	3102.9	3128.5	3154.2
35°	3267.0	3273.9	3251.6	3207.2	3179.8	3179.8	3190.1	3227.7	3268.7	3301.2
37.5°	3472.2	3480.7	3441.4	3388.4	3347.4	3347.4	3361.0	3400.4	3461.9	3508.1
40°	3721.8	3733.7	3684.2	3629.4	3590.1	3583.3	3600.4	3644.8	3703.0	3761.1
42.5°	4022.7	4036.3	3971.4	3923.5	3892.7	3892.7	3901.3	3942.3	3995.3	4067.1
45°	4407.3	4431.2	4342.3	4294.5	4265.4	4272.3	4277.4	4313.3	4361.2	4443.2
47.5°	4865.5	4889.4	4795.4	4745.8	4740.7	4773.2	4752.6	4778.3	4803.9	4898.0
50°	5385.2	5426.2	5361.3	5357.8	5368.1	5427.9	5380.1	5393.7	5364.7	5424.5
52.5°	6021.2	6081.0	6069.0	6089.5	6204.1	6327.2	6217.8	6169.9	6060.5	6079.3
55°	6792.2	6882.8	6899.9	7023.0	7282.8	7534.1	7301.6	7108.5	6876.0	6833.2
57.5°	7669.2	7741.0	7823.1	8074.4	8559.9	9006.1	8559.9	8132.5	7766.6	7679.5
60°	8612.9	8701.8	8780.4	9151.4	9872.9	10500.3	9859.2	9180.5	8696.7	8578.7
62.5°	9626.7	9741.2	9795.9	10207.9	11049.0	11797.8	11061.0	10238.7	9701.9	9575.4
65°	10599.4	10693.5	10755.0	11194.4	11997.9	12748.4	12052.6	11242.2	10690.0	10524.2
67.5°	11052.5	11103.8	11254.2	11751.7	12599.6	13456.1	12743.2	11804.7	11187.5	10896.9
70°	10389.1	10284.9	10647.3	11444.0	12671.4	13890.4	12835.6	11420.0	10664.4	10192.5
72.5°	8028.2	7848.7	8477.8	9840.4	11850.8	13613.4	11932.9	9917.3	8869.3	7912.0
75°	4368.0	4164.5	5033.0	6756.3	9450.6	11799.6	9667.7	6949.5	5604.0	4335.5
77.5°	1232.6	1155.7	1856.6	3268.7	5684.4	8284.6	5903.2	3340.5	2201.9	1306.1
80°	377.8	365.9	495.8	984.7	2413.9	3967.9	2319.9	996.7	630.8	398.3
82.5°	224.0	205.2	246.2	359.0	615.5	1246.3	598.4	374.4	300.9	201.7
85°	128.2	119.7	145.3	174.4	206.9	265.0	172.7	177.8	160.7	107.7
87.5°	53.0	47.9	56.4	54.7	47.9	61.5	46.2	54.7	65.0	42.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
3000.3
2990.1
2952.5
2911.4
2892.6
2892.6
2904.6
2926.8
2949.0
2959.3
2969.5
2995.2
3053.3
3143.9
3289.2
3491.0
3742.3
4062.0
4439.8
4870.6
5388.6
6016.0
6766.5
7617.9
8476.1
9472.8
10442.1
10900.3
10305.4
8149.6
4617.6
1451.4
420.6
218.8
112.8
39.3
0.0

OF REPORT)