

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: P848351

Luminaire Tested: **GLAN-SB4D-850-U-5WQ**

Issue Date: 6/26/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P848351  
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-850-U-5WQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 35421 lumens  
Efficiency: N/A  
Efficacy: 120.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

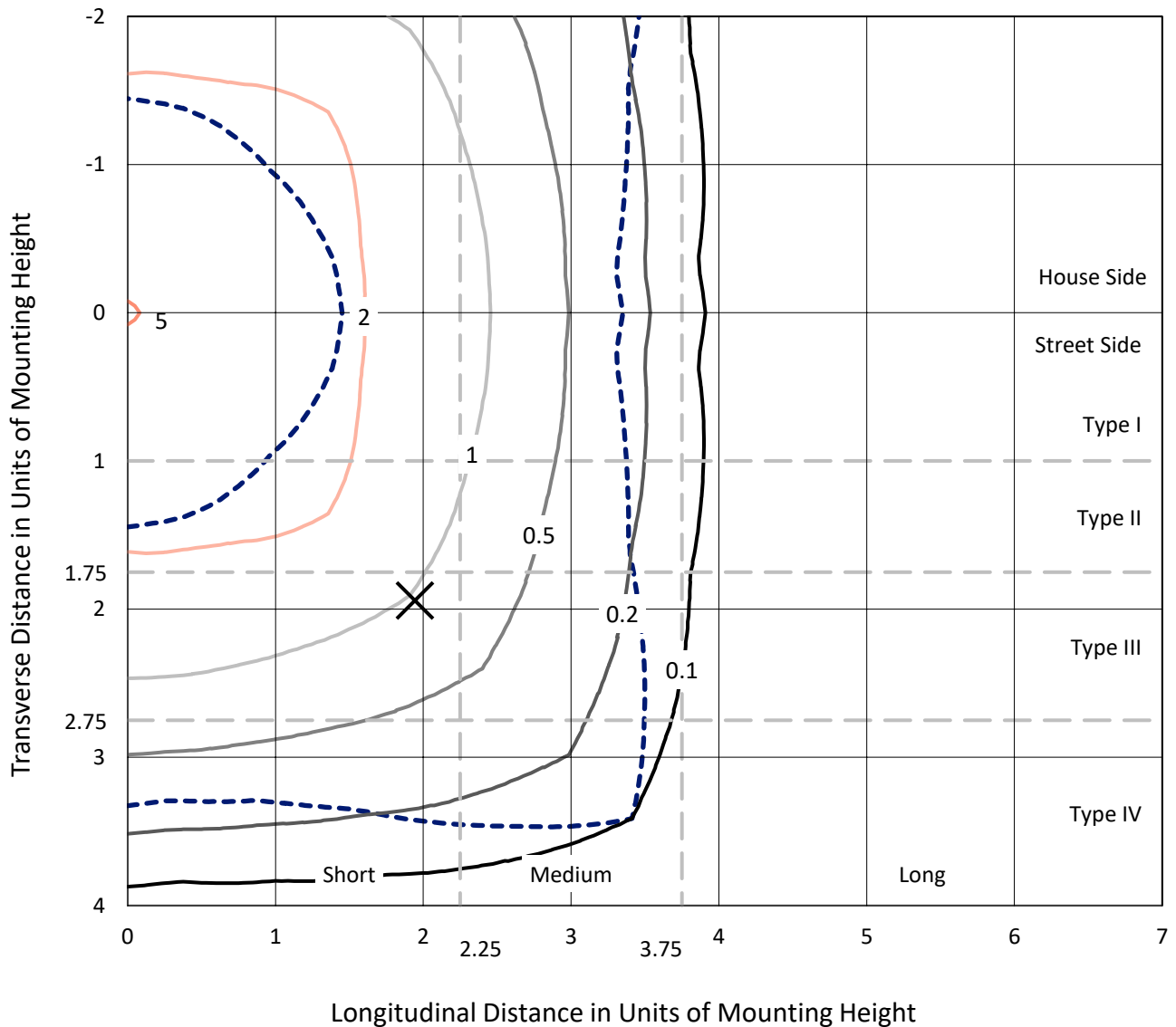
Input Watts (W): 293.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

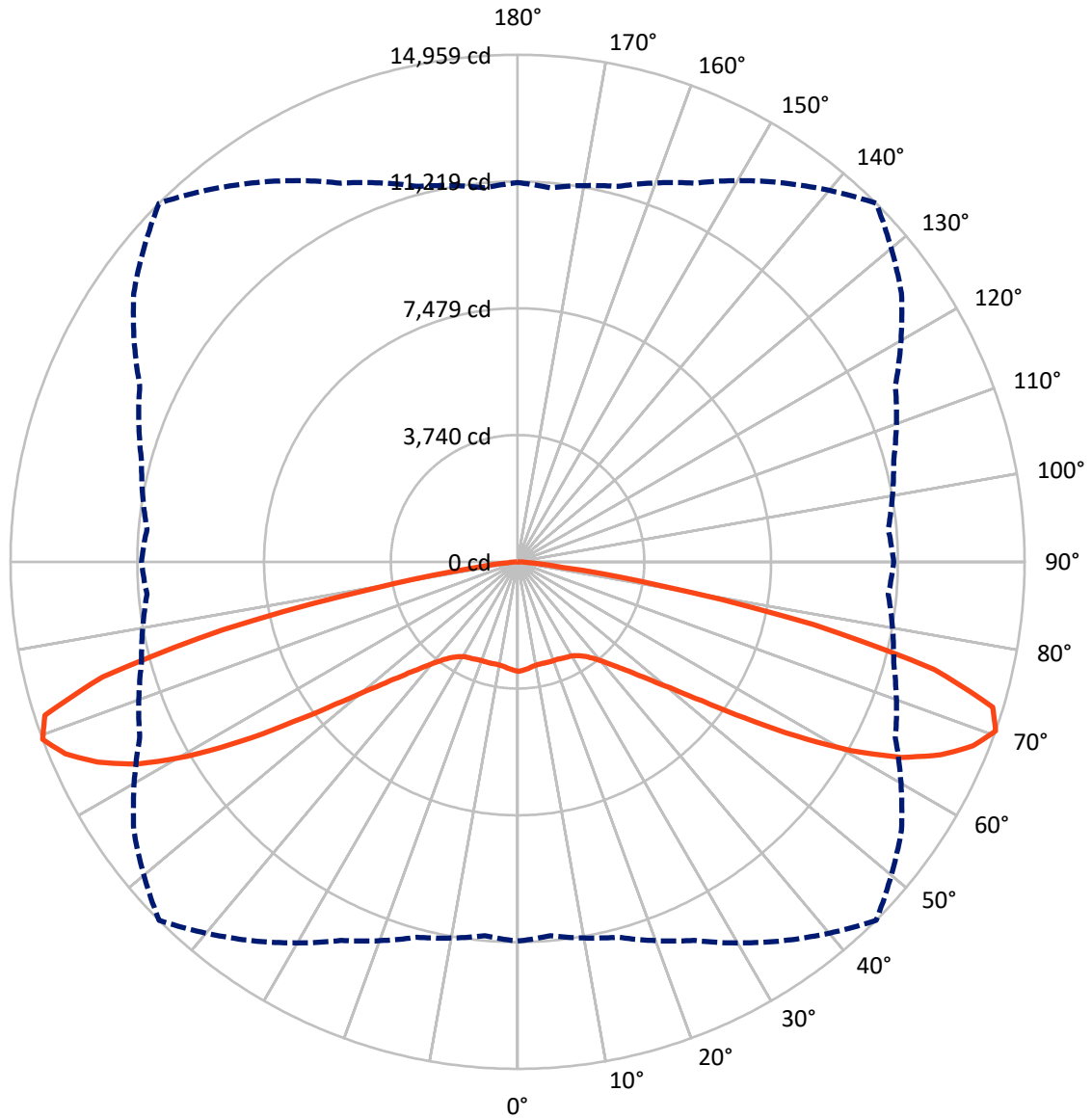
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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	17710.5	0.0	17710.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	17710.5	0.0	17710.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	35421.0	0.0	35421.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	300.6	0.8
10°-20°	882.5	2.5
20°-30°	1468.7	4.1
30°-40°	2221.1	6.3
40°-50°	3690.9	10.4
50°-60°	6964.7	19.7
60°-70°	11760.1	33.2
70°-80°	7727.6	21.8
80°-90°	404.9	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°	35421.0	100.0
0°-180°	35421.0	100.0

**Coefficient of Utilization**



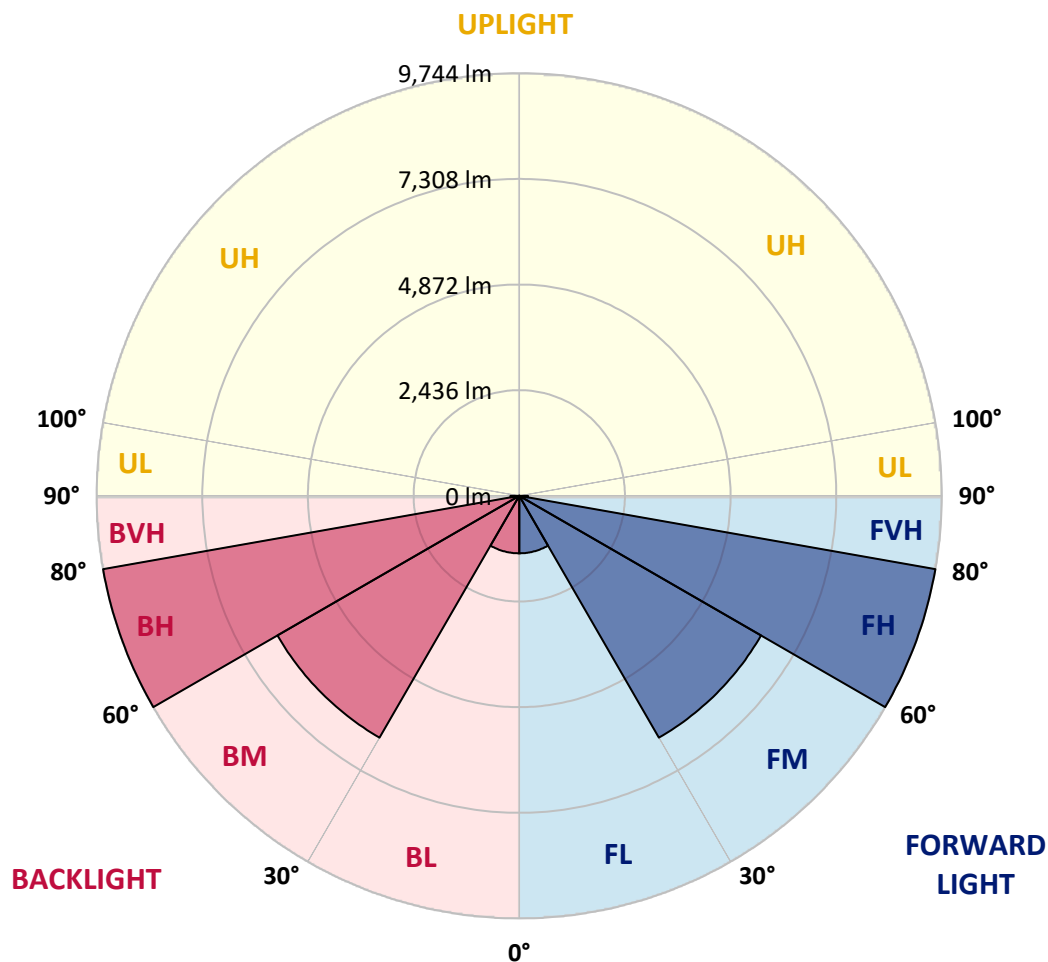
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1325.9	3.7			
FM (30°-60°)	6438.3	18.2			
FH (60°-80°)	9743.8	27.5			G4/12000
FVH (80°-90°)	202.4	0.6			G2/225
BL (0°-30°)	1325.9	3.7	B3/2500		
BM (30°-60°)	6438.3	18.2	B4/8500		
BH (60°-80°)	9743.8	27.5	B5		G4/12000
BVH (80°-90°)	202.4	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°	3231.1	3231.1	3231.1	3231.1	3231.1	3231.1	3231.1	3231.1	3231.1	3231.1
2.5°	3210.9	3220.1	3216.4	3209.0	3209.0	3203.5	3209.0	3212.7	3218.2	3221.9
5°	3168.5	3175.9	3174.0	3168.5	3170.4	3164.8	3168.5	3174.0	3177.7	3179.6
7.5°	3131.7	3139.1	3135.4	3126.2	3126.2	3120.6	3122.5	3128.0	3133.5	3135.4
10°	3122.5	3129.8	3118.8	3104.1	3098.6	3091.2	3093.0	3098.6	3109.6	3115.1
12.5°	3126.2	3131.7	3120.6	3098.6	3093.0	3085.7	3085.7	3091.2	3105.9	3113.3
15°	3137.2	3142.7	3126.2	3102.2	3096.7	3091.2	3089.3	3096.7	3113.3	3126.2
17.5°	3157.5	3163.0	3137.2	3104.1	3096.7	3098.6	3096.7	3102.2	3128.0	3151.9
20°	3175.9	3179.6	3144.6	3104.1	3096.7	3098.6	3096.7	3107.8	3140.9	3174.0
22.5°	3181.4	3185.1	3151.9	3117.0	3111.4	3113.3	3111.4	3122.5	3153.8	3186.9
25°	3183.2	3188.8	3163.0	3135.4	3144.6	3148.3	3144.6	3146.4	3170.4	3199.8
27.5°	3210.9	3218.2	3194.3	3170.4	3175.9	3174.0	3179.6	3185.1	3203.5	3232.9
30°	3267.9	3273.5	3253.2	3229.3	3225.6	3212.7	3229.3	3247.7	3267.9	3293.7
32.5°	3361.8	3372.9	3347.1	3321.3	3304.8	3297.4	3310.3	3341.6	3369.2	3396.8
35°	3518.3	3525.7	3501.7	3453.9	3424.4	3424.4	3435.5	3476.0	3520.2	3555.1
37.5°	3739.2	3748.5	3706.1	3649.0	3604.8	3604.8	3619.6	3661.9	3728.2	3777.9
40°	4008.0	4020.9	3967.5	3908.6	3866.3	3858.9	3877.3	3925.2	3987.8	4050.4
42.5°	4332.1	4346.8	4276.8	4225.3	4192.2	4192.2	4201.4	4245.5	4302.6	4379.9
45°	4746.3	4772.1	4676.4	4624.8	4593.5	4600.9	4606.4	4645.1	4696.6	4785.0
47.5°	5239.7	5265.5	5164.3	5110.9	5105.3	5140.3	5118.2	5145.8	5173.5	5274.7
50°	5799.4	5843.6	5773.7	5770.0	5781.0	5845.5	5793.9	5808.6	5777.3	5841.8
52.5°	6484.3	6548.7	6535.9	6558.0	6681.3	6813.9	6696.0	6644.5	6526.7	6546.9
55°	7314.6	7412.2	7430.6	7563.2	7843.0	8113.7	7863.3	7655.2	7404.9	7358.8
57.5°	8259.1	8336.4	8424.8	8695.5	9218.3	9698.8	9218.3	8758.1	8364.1	8270.2
60°	9275.4	9371.1	9455.8	9855.3	10632.3	11308.0	10617.6	9886.6	9365.6	9238.6
62.5°	10367.2	10490.5	10549.4	10993.1	11898.9	12705.3	11911.8	11026.3	10448.2	10311.9
65°	11414.7	11516.0	11582.3	12055.4	12920.8	13729.0	12979.7	12107.0	11512.3	11333.7
67.5°	11902.6	11957.9	12119.9	12655.6	13568.8	14491.2	13723.5	12712.7	12048.1	11735.1
70°	11188.3	11076.0	11466.3	12324.2	13646.1	14958.8	13822.9	12298.5	11484.7	10976.6
72.5°	8645.7	8452.4	9130.0	10597.3	12762.4	14660.6	12850.8	10680.1	9551.6	8520.6
75°	4704.0	4484.9	5420.2	7276.0	10177.5	12707.2	10411.3	7484.0	6035.1	4669.0
77.5°	1327.4	1244.6	1999.4	3520.2	6121.6	8921.9	6357.3	3597.5	2371.3	1406.6
80°	406.9	394.0	533.9	1060.5	2599.6	4273.2	2498.4	1073.4	679.4	429.0
82.5°	241.2	220.9	265.1	386.6	662.8	1342.2	644.4	403.2	324.0	217.2
85°	138.1	128.9	156.5	187.8	222.8	285.4	185.9	191.5	173.1	116.0
87.5°	57.1	51.6	60.8	58.9	51.6	66.3	49.7	58.9	70.0	46.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
3231.1
3220.1
3179.6
3135.4
3115.1
3115.1
3128.0
3151.9
3175.9
3186.9
3198.0
3225.6
3288.2
3385.8
3542.3
3759.5
4030.1
4374.4
4781.3
5245.3
5803.1
6478.8
7287.0
8203.9
9128.1
10201.5
11245.4
11738.8
<i>11098.1</i>
8776.5
4972.8
1563.1
452.9
235.7
121.5
42.3
0.0

OF REPORT)