

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: P885172

Luminaire Tested: **NVN-SB6B-830-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885172
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB6B-830-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30250 lumens
Efficiency: N/A
Efficacy: 137.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

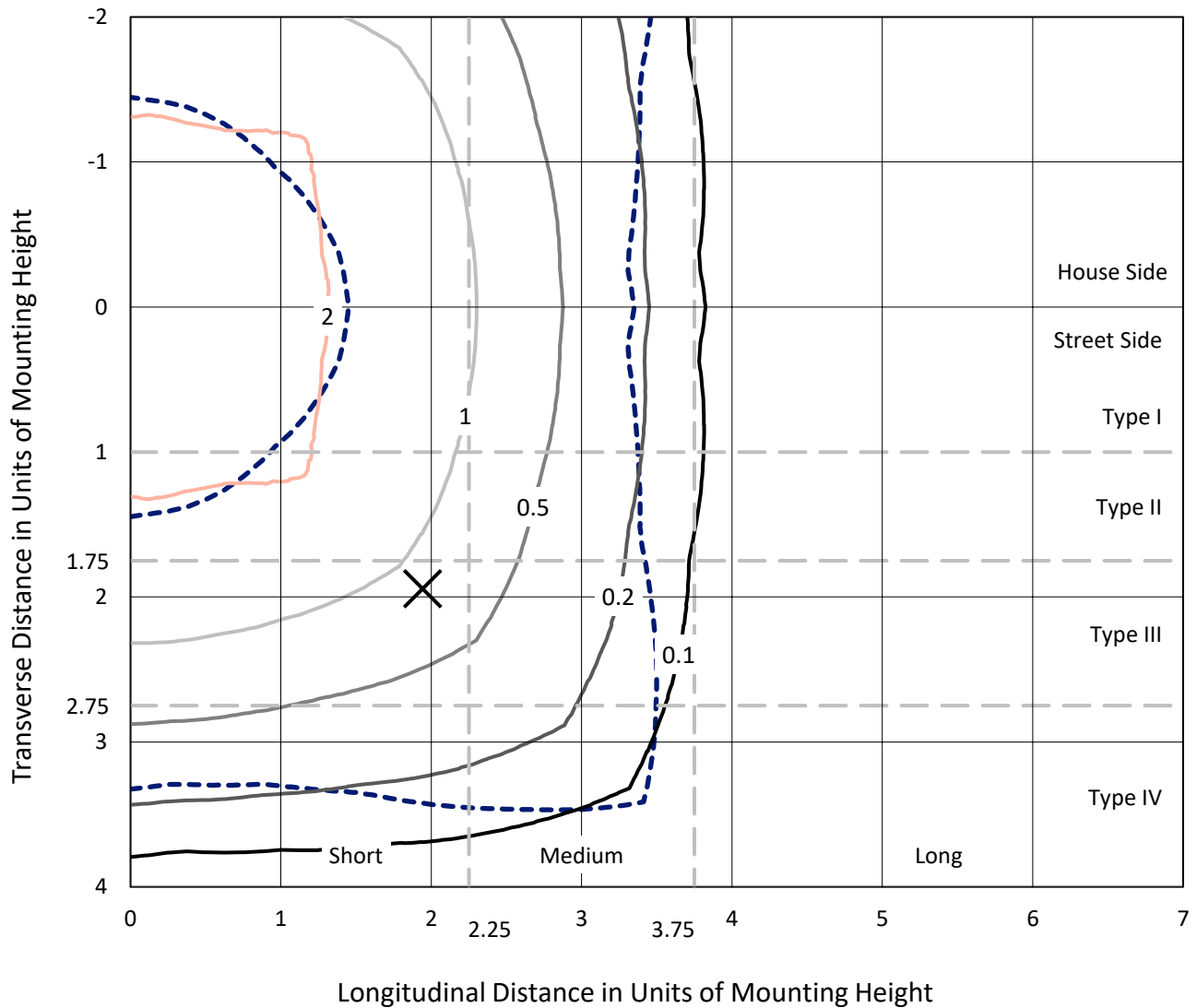
Input Watts (W): 220.4
Input Voltage (V): 120.0
Input Current (Ain): 1.838
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 8.657
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

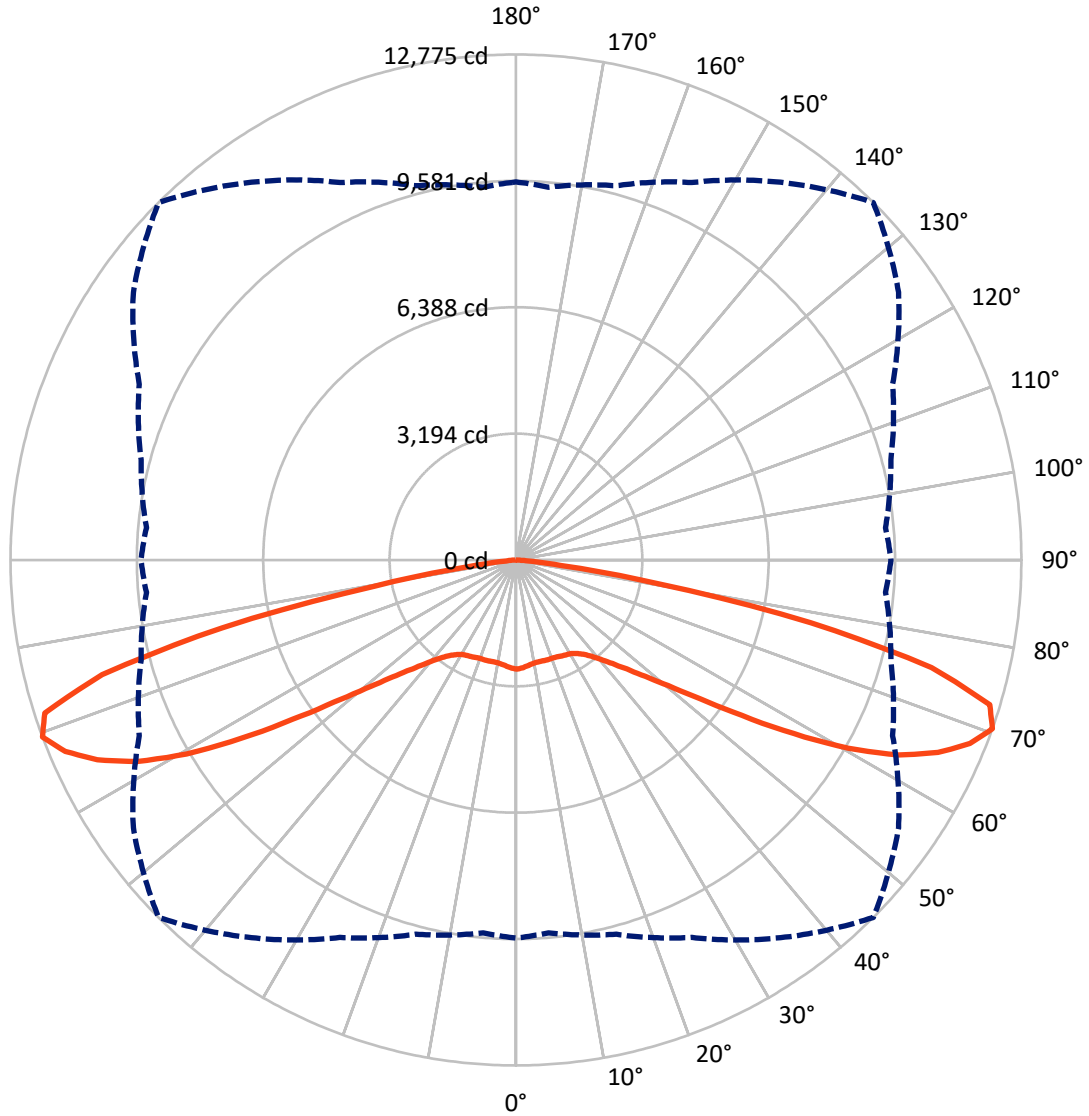
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 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
House Side	Lumens	15125.0	0.0	15125.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15125.0	0.0	15125.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	30250.0	0.0	30250.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.7	0.8
10°-20°	753.7	2.5
20°-30°	1254.3	4.1
30°-40°	1896.8	6.3
40°-50°	3152.1	10.4
50°-60°	5947.9	19.7
60°-70°	10043.3	33.2
70°-80°	6599.5	21.8
80°-90°	345.7	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°	30250.0	100.0
0°-180°	30250.0	100.0



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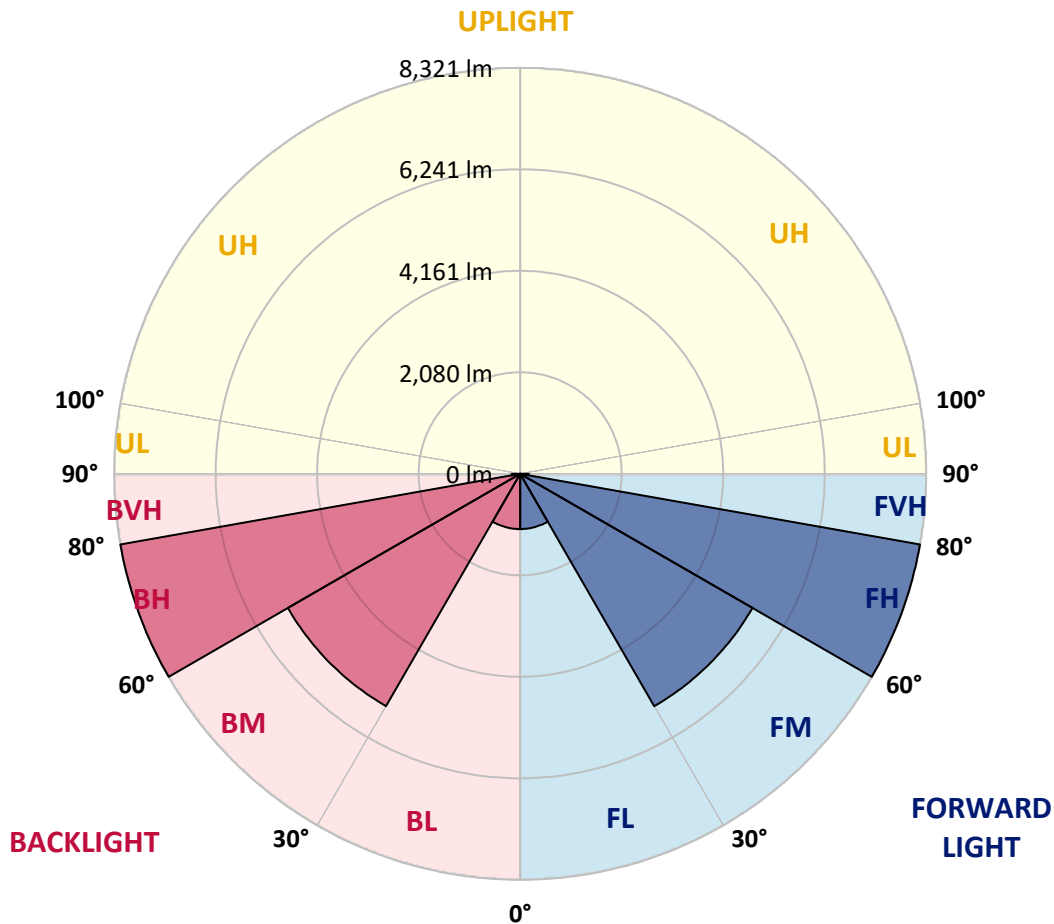
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1132.3	3.7			
FM (30°-60°)	5498.4	18.2			
FH (60°-80°)	8321.4	27.5			G4/12000
FVH (80°-90°)	172.9	0.6			G2/225
BL (0°-30°)	1132.3	3.7	B3/2500		
BM (30°-60°)	5498.4	18.2	B4/8500		
BH (60°-80°)	8321.4	27.5	B5		G4/12000
BVH (80°-90°)	172.9	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2759.4	2759.4	2759.4	2759.4	2759.4	2759.4	2759.4	2759.4	2759.4	2759.4	2759.4
2.5°	2742.1	2750.0	2746.8	2740.5	2740.5	2735.8	2740.5	2743.7	2748.4	2751.5	2750.0
5°	2706.0	2712.2	2710.7	2706.0	2707.5	2702.8	2706.0	2710.7	2713.8	2715.4	2715.4
7.5°	2674.5	2680.8	2677.6	2669.8	2669.8	2665.1	2666.6	2671.4	2676.1	2677.6	2677.6
10°	2666.6	2672.9	2663.5	2650.9	2646.2	2639.9	2641.5	2646.2	2655.6	2660.4	2660.4
12.5°	2669.8	2674.5	2665.1	2646.2	2641.5	2635.2	2635.2	2639.9	2652.5	2658.8	2660.4
15°	2679.2	2683.9	2669.8	2649.3	2644.6	2639.9	2638.3	2644.6	2658.8	2669.8	2671.4
17.5°	2696.5	2701.2	2679.2	2650.9	2644.6	2646.2	2644.6	2649.3	2671.4	2691.8	2691.8
20°	2712.2	2715.4	2685.5	2650.9	2644.6	2646.2	2644.6	2654.1	2682.4	2710.7	2712.2
22.5°	2717.0	2720.1	2691.8	2661.9	2657.2	2658.8	2657.2	2666.6	2693.4	2721.7	2721.7
25°	2718.5	2723.2	2701.2	2677.6	2685.5	2688.7	2685.5	2687.1	2707.5	2732.7	2731.1
27.5°	2742.1	2748.4	2728.0	2707.5	2712.2	2710.7	2715.4	2720.1	2735.8	2761.0	2754.7
30°	2790.9	2795.6	2778.3	2757.8	2754.7	2743.7	2757.8	2773.6	2790.9	2812.9	2808.2
32.5°	2871.0	2880.5	2858.5	2836.5	2822.3	2816.0	2827.0	2853.7	2877.3	2900.9	2891.5
35°	3004.7	3011.0	2990.5	2949.7	2924.5	2924.5	2933.9	2968.5	3006.3	3036.1	3025.1
37.5°	3193.4	3201.2	3165.1	3116.3	3078.6	3078.6	3091.2	3127.3	3183.9	3226.4	3210.7
40°	3422.9	3433.9	3388.3	3338.0	3301.9	3295.6	3311.3	3352.2	3405.6	3459.1	3441.8
42.5°	3699.7	3712.2	3652.5	3608.5	3580.2	3580.2	3588.0	3625.8	3674.5	3740.5	3735.8
45°	4053.4	4075.4	3993.7	3949.6	3922.9	3929.2	3933.9	3966.9	4011.0	4086.4	4083.3
47.5°	4474.8	4496.8	4410.3	4364.7	4360.0	4389.9	4371.0	4394.6	4418.2	4504.7	4479.5
50°	4952.8	4990.5	4930.8	4927.6	4937.1	4992.1	4948.1	4960.6	4933.9	4988.9	4955.9
52.5°	5537.7	5592.7	5581.7	5600.6	5705.9	5819.1	5718.5	5674.5	5573.8	5591.1	5533.0
55°	6246.8	6330.1	6345.9	6459.1	6698.1	6929.2	6715.3	6537.7	6323.8	6284.5	6223.2
57.5°	7053.4	7119.4	7194.9	7426.0	7872.6	8282.9	7872.6	7479.5	7143.0	7062.8	7006.2
60°	7921.3	8003.1	8075.4	8416.6	9080.1	9657.1	9067.5	8443.3	7998.4	7889.9	7795.5
62.5°	8853.7	8959.0	9009.4	9388.3	10161.9	10850.5	10172.9	9416.6	8922.9	8806.5	8712.2
65°	9748.3	9834.8	9891.4	10295.5	11034.5	11724.7	11084.8	10339.5	9831.7	9679.2	9603.7
67.5°	10165.0	10212.2	10350.5	10808.1	11587.9	12375.7	11720.0	10856.8	10289.2	10021.9	10025.1
70°	9554.9	9459.0	9792.4	10525.1	11654.0	12775.0	11804.9	10503.0	9808.1	9374.1	9477.9
72.5°	7383.6	7218.5	7797.1	9050.2	10899.3	12520.3	10974.7	9121.0	8157.2	7276.7	7495.2
75°	4017.3	3830.2	4628.9	6213.8	8691.7	10852.1	8891.4	6391.5	5154.0	3987.4	4246.8
77.5°	1133.6	1062.9	1707.5	3006.3	5227.9	7619.4	5429.2	3072.3	2025.1	1201.2	1334.9
80°	347.5	336.5	456.0	905.7	2220.1	3649.3	2133.6	916.7	580.2	366.3	386.8
82.5°	206.0	188.7	226.4	330.2	566.0	1146.2	550.3	344.3	276.7	185.5	201.3
85°	117.9	110.1	133.6	160.4	190.2	243.7	158.8	163.5	147.8	99.1	103.8
87.5°	48.7	44.0	51.9	50.3	44.0	56.6	42.5	50.3	59.7	39.3	36.2
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)