

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: P970504

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

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970504
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
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: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31811.9 lumens
Efficiency: N/A
Efficacy: 144.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

Input Watts (W): 220.4
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



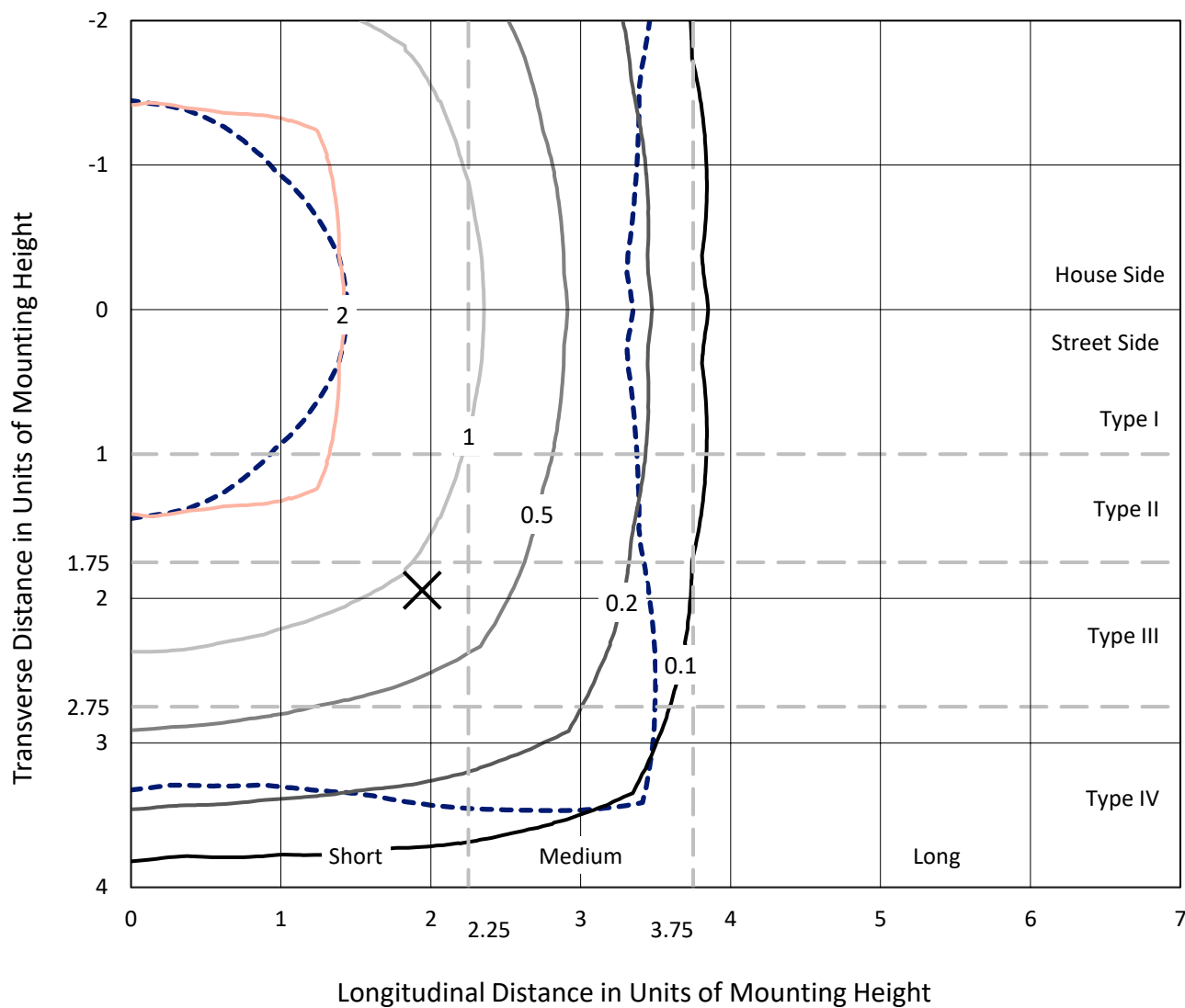
REPORT NUMBER: P970504

CATALOG NUMBER: NVN-SB6B-830-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

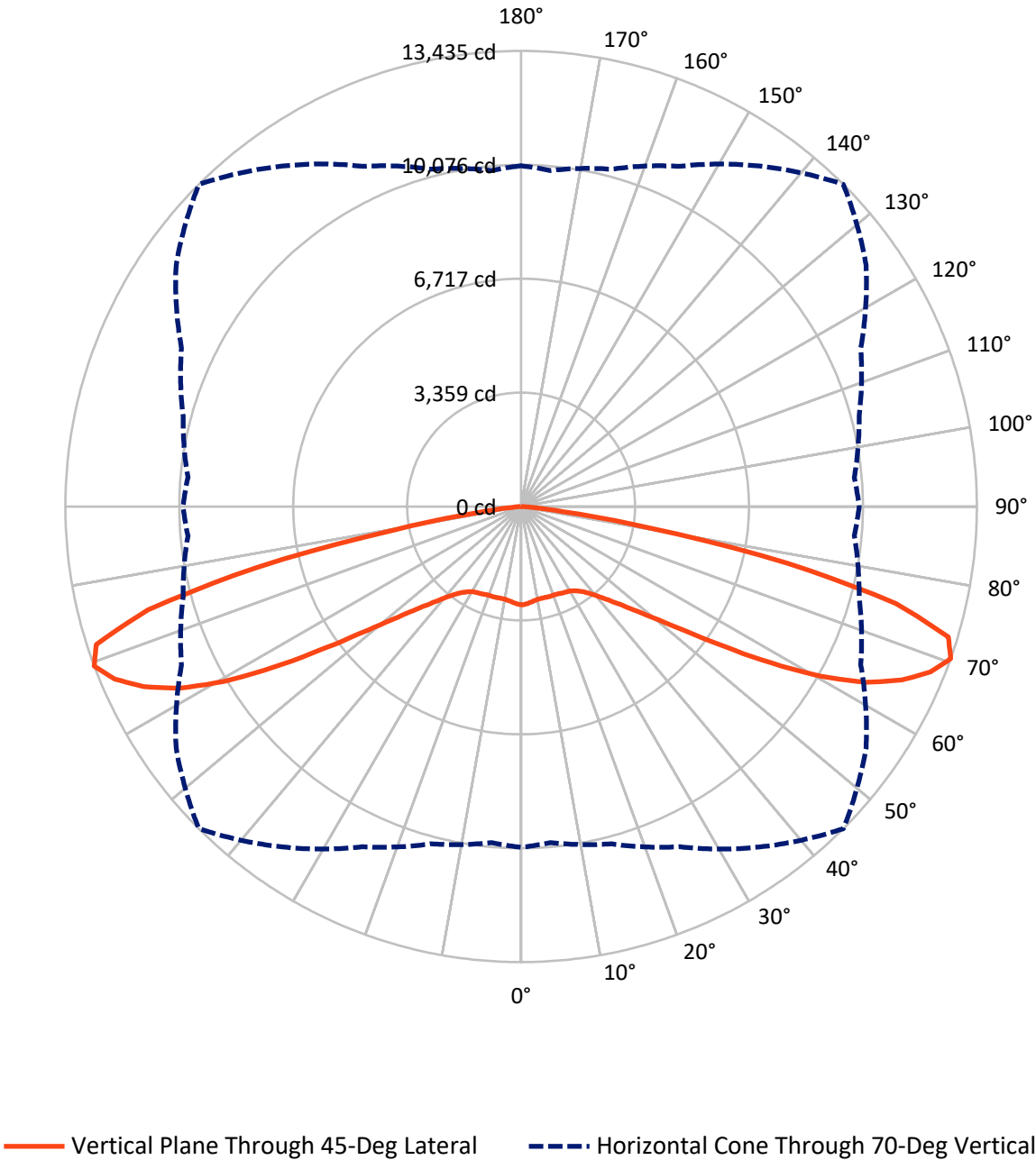
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
Type V - Short - N/A

REPORT NUMBER: P970504
CATALOG NUMBER: NVN-SB6B-830-U-5WQ

Luminous Intensity Polar Plot



REPORT NUMBER: P970504

CATALOG NUMBER: NVN-SB6B-830-U-5WQ

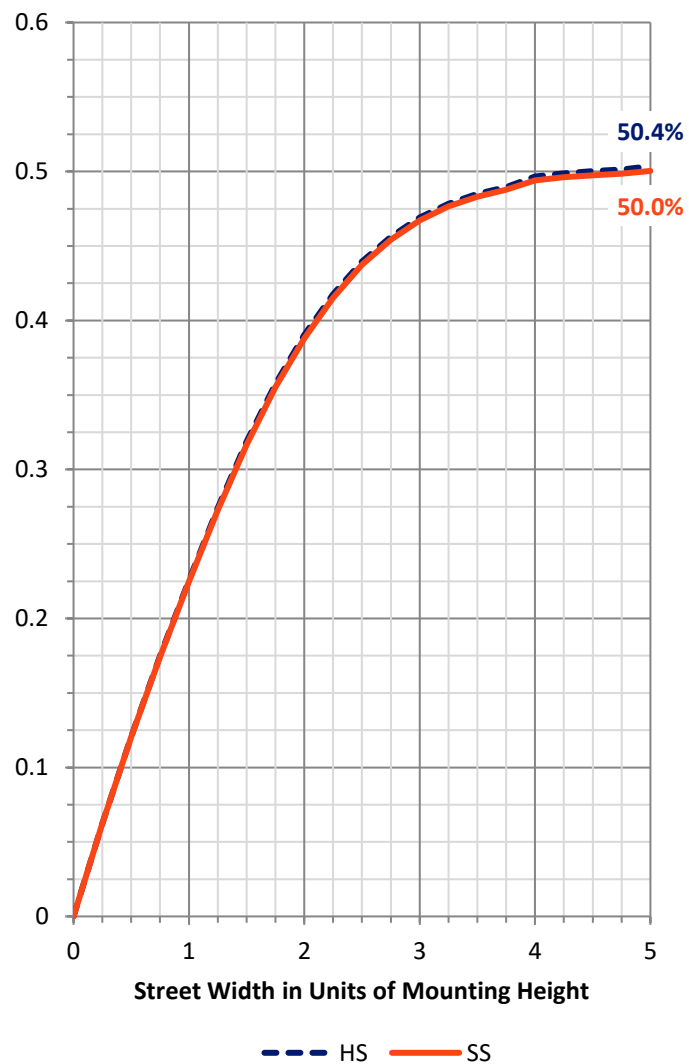
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15905.9	0.0	15905.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15905.9	0.0	15905.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	31811.9	0.0	31811.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	269.9	0.8
10°-20°	792.6	2.5
20°-30°	1319.0	4.1
30°-40°	1994.8	6.3
40°-50°	3314.8	10.4
50°-60°	6255.0	19.7
60°-70°	10561.8	33.2
70°-80°	6940.2	21.8
80°-90°	363.6	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°	31811.9	100.0
0°-180°	31811.9	100.0

Coefficient of Utilization



REPORT NUMBER: P970504

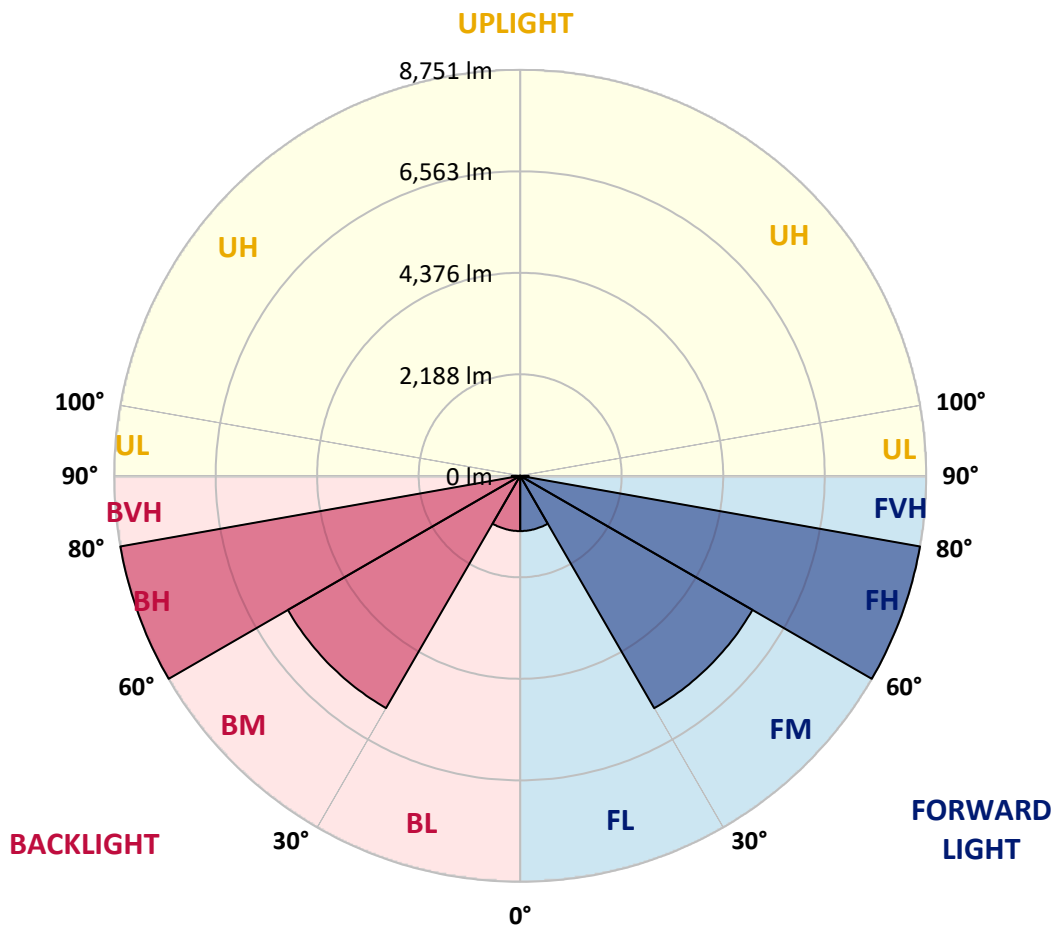
CATALOG NUMBER: NVN-SB6B-830-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1190.8	3.7			
FM	(30°-60°)	5782.3	18.2			
FH	(60°-80°)	8751.0	27.5			G4/12000
FVH	(80°-90°)	181.8	0.6			G2/225
BL	(0°-30°)	1190.8	3.7	B3/2500		
BM	(30°-60°)	5782.3	18.2	B4/8500		
BH	(60°-80°)	8751.0	27.5	B5		G4/12000
BVH	(80°-90°)	181.8	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: P970504

CATALOG NUMBER: NVN-SB6B-830-U-5WQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2901.9	2901.9	2901.9	2901.9	2901.9	2901.9	2901.9	2901.9	2901.9	2901.9	2901.9
2.5°	2883.7	2891.9	2888.7	2882.1	2882.1	2877.1	2882.1	2885.4	2890.3	2893.6	2891.9
5°	2845.7	2852.3	2850.6	2845.7	2847.3	2842.3	2845.7	2850.6	2853.9	2855.5	2855.5
7.5°	2812.6	2819.2	2815.9	2807.7	2807.7	2802.7	2804.3	2809.3	2814.2	2815.9	2815.9
10°	2804.3	2811.0	2801.0	2787.8	2782.9	2776.2	2777.9	2782.9	2792.7	2797.7	2797.7
12.5°	2807.7	2812.6	2802.7	2782.9	2777.9	2771.3	2771.3	2776.2	2789.4	2796.1	2797.7
15°	2817.5	2822.5	2807.7	2786.2	2781.1	2776.2	2774.6	2781.1	2796.1	2807.7	2809.3
17.5°	2835.8	2840.7	2817.5	2787.8	2781.1	2782.9	2781.1	2786.2	2809.3	2830.7	2830.7
20°	2852.3	2855.5	2824.2	2787.8	2781.1	2782.9	2781.1	2791.1	2820.9	2850.6	2852.3
22.5°	2857.3	2860.6	2830.7	2799.4	2794.5	2796.1	2794.5	2804.3	2832.5	2862.2	2862.2
25°	2858.9	2863.8	2840.7	2815.9	2824.2	2827.5	2824.2	2825.8	2847.3	2873.8	2872.2
27.5°	2883.7	2890.3	2868.8	2847.3	2852.3	2850.6	2855.5	2860.6	2877.1	2903.5	2897.0
30°	2935.0	2939.9	2921.8	2900.2	2897.0	2885.4	2900.2	2916.7	2935.0	2958.1	2953.1
32.5°	3019.2	3029.2	3006.0	2983.0	2968.0	2961.4	2973.0	3001.1	3025.9	3050.7	3040.8
35°	3159.9	3166.4	3144.9	3102.0	3075.5	3075.5	3085.5	3121.8	3161.5	3192.9	3181.3
37.5°	3358.2	3366.5	3328.5	3277.2	3237.6	3237.6	3250.8	3288.8	3348.4	3393.0	3376.5
40°	3599.7	3611.3	3563.3	3510.4	3472.4	3465.7	3482.2	3525.3	3581.5	3637.7	3619.5
42.5°	3890.7	3903.9	3841.1	3794.8	3765.0	3765.0	3773.2	3813.0	3864.2	3933.6	3928.7
45°	4262.7	4285.8	4199.8	4153.6	4125.5	4132.1	4137.0	4171.8	4218.1	4297.4	4294.1
47.5°	4705.9	4729.0	4638.0	4590.2	4585.1	4616.6	4596.7	4621.5	4646.3	4737.2	4710.8
50°	5208.5	5248.2	5185.4	5182.1	5191.9	5249.8	5203.5	5216.7	5188.7	5246.6	5211.8
52.5°	5823.6	5881.4	5869.9	5889.8	6000.6	6119.6	6013.8	5967.4	5861.7	5879.8	5818.6
55°	6569.3	6657.0	6673.5	6792.6	7043.9	7286.9	7062.0	6875.2	6650.4	6609.0	6544.5
57.5°	7417.6	7487.0	7566.4	7809.5	8279.0	8710.7	8279.0	7865.6	7511.8	7427.5	7368.0
60°	8330.3	8416.3	8492.3	8851.2	9548.9	10155.8	9535.7	8879.3	8411.4	8297.3	8198.1
62.5°	9310.8	9421.6	9474.5	9873.0	10686.5	11410.8	10698.1	9902.8	9383.6	9261.2	9162.1
65°	10251.6	10342.7	10402.1	10827.1	11604.2	12330.1	11657.1	10873.4	10339.3	10179.0	10099.5
67.5°	10689.8	10739.4	10885.0	11366.1	12186.2	13014.6	12325.1	11417.4	10820.5	10539.4	10542.7
70°	10048.3	9947.4	10298.0	11068.5	12255.7	13434.7	12414.5	11045.4	10314.5	9858.1	9967.3
72.5°	7764.8	7591.2	8199.7	9517.5	11462.1	13166.7	11541.4	9591.9	8578.3	7652.3	7882.2
75°	4224.6	4027.9	4867.9	6534.6	9140.5	11412.5	9350.6	6721.4	5420.2	4193.3	4466.1
77.5°	1192.2	1117.8	1795.7	3161.5	5497.9	8012.8	5709.6	3230.9	2129.7	1263.3	1403.8
80°	365.4	353.8	479.5	952.4	2334.7	3837.8	2243.8	964.0	610.2	385.3	406.7
82.5°	216.6	198.4	238.1	347.3	595.2	1205.4	578.7	362.1	291.0	195.2	211.7
85°	124.0	115.7	140.5	168.6	200.1	256.2	167.0	172.0	155.4	104.1	109.2
87.5°	51.2	46.3	54.5	52.9	46.3	59.6	44.7	52.9	62.8	41.3	38.0
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)