

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: P965764

Luminaire Tested: **NVN-SB4A-830-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P965764
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB4A-830-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17050.8 lumens
Efficiency: N/A
Efficacy: 149.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G4

Input Watts (W): 114
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

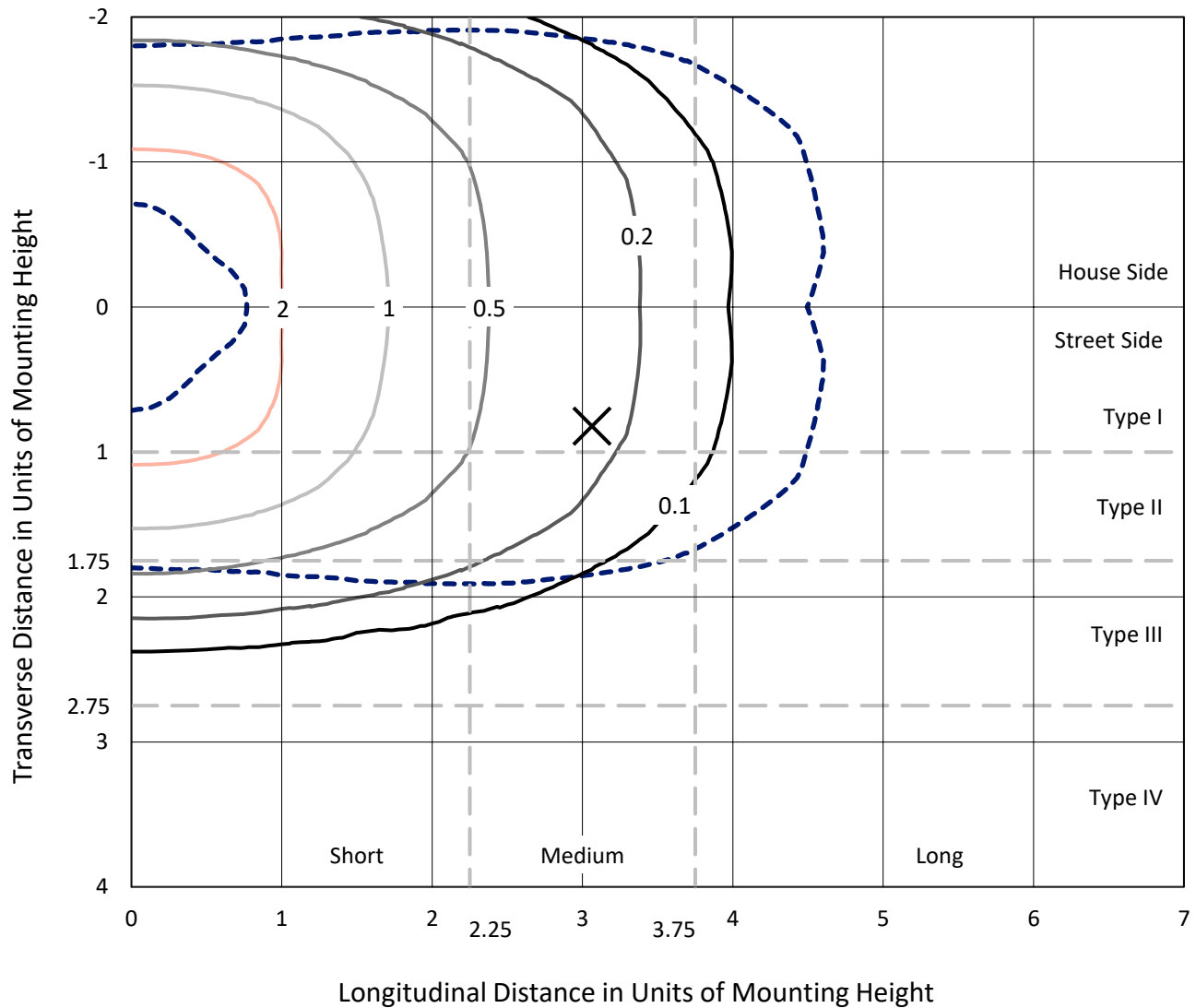


REPORT NUMBER: P965764

CATALOG NUMBER: NVN-SB4A-830-U-RW

Iso-Footcandle Lines of Horizontal Illumination

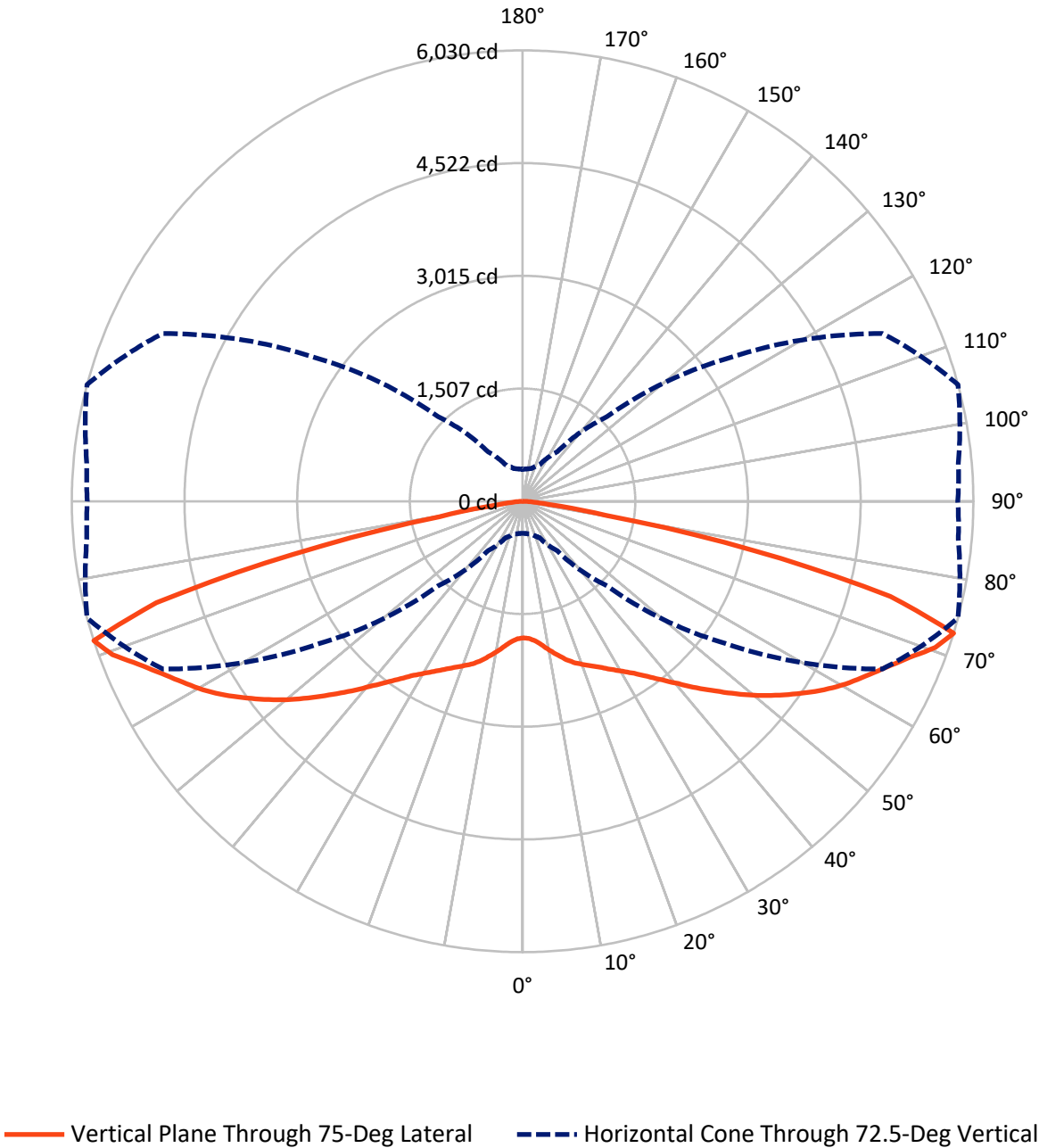
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
Type III - Medium - N/A

REPORT NUMBER: P965764
CATALOG NUMBER: NVN-SB4A-830-U-RW

Luminous Intensity Polar Plot



REPORT NUMBER: P965764

CATALOG NUMBER: NVN-SB4A-830-U-RW

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8525.4	0.0	8525.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8525.4	0.0	8525.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	17050.8	0.0	17050.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.9	1.0
10°-20°	590.1	3.5
20°-30°	1140.3	6.7
30°-40°	1925.4	11.3
40°-50°	3053.4	17.9
50°-60°	4088.2	24.0
60°-70°	3890.7	22.8
70°-80°	2030.2	11.9
80°-90°	153.7	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°	17050.8	100.0
0°-180°	17050.8	100.0

Coefficient of Utilization



REPORT NUMBER: P965764

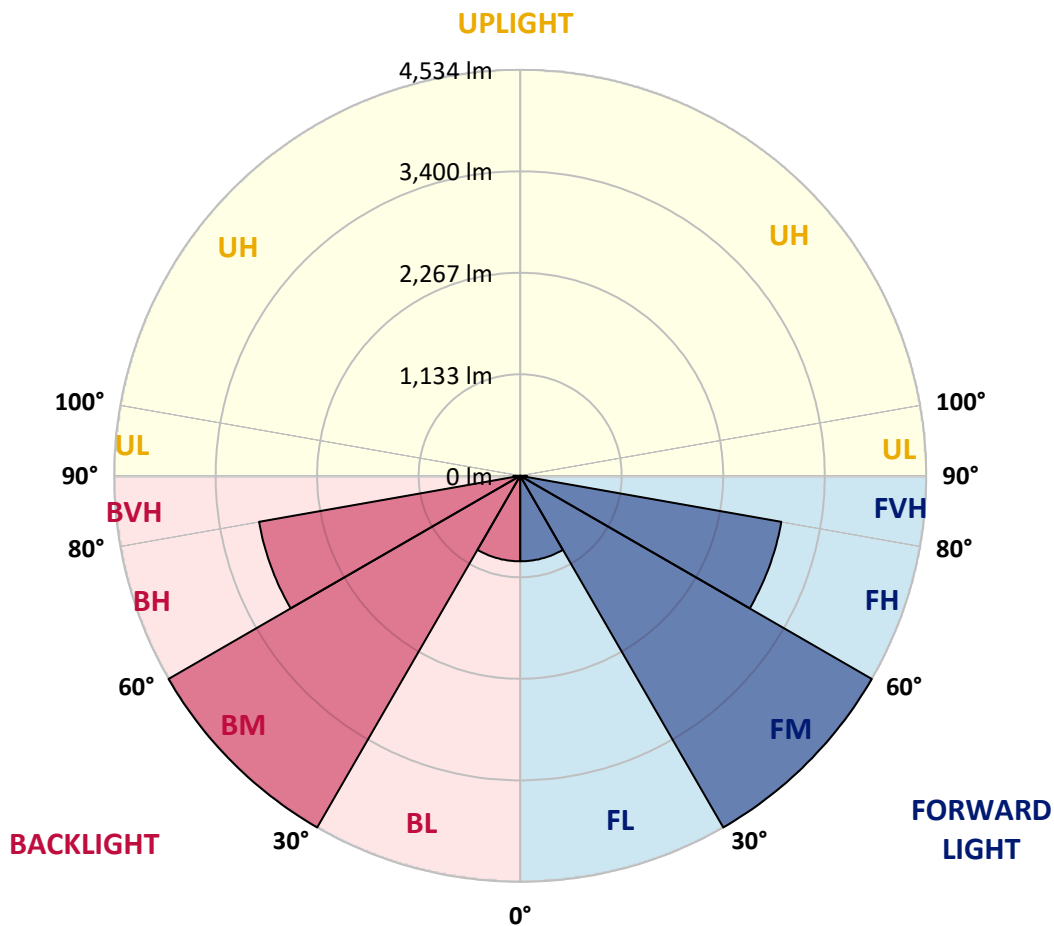
CATALOG NUMBER: NVN-SB4A-830-U-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	954.6	5.6			
FM	(30°-60°)	4533.5	26.6			
FH	(60°-80°)	2960.4	17.4			G2/5000
FVH	(80°-90°)	76.8	0.5			G1/100
BL	(0°-30°)	954.6	5.6	B2/1000		
BM	(30°-60°)	4533.5	26.6	B3/5000		
BH	(60°-80°)	2960.4	17.4	B4/5000		G4/5000
BVH	(80°-90°)	76.8	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type III Medium



REPORT NUMBER: P965764

CATALOG NUMBER: NVN-SB4A-830-U-RW

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1826.4	1826.4	1826.4	1826.4	1826.4	1826.4	1826.4	1826.4	1826.4	1826.4	1826.4
2.5°	1826.4	1824.7	1826.4	1828.2	1827.4	1827.4	1831.7	1834.3	1839.5	1838.6	1837.7
5°	1814.2	1813.4	1820.4	1828.2	1834.3	1844.7	1857.8	1867.3	1879.5	1882.2	1882.2
7.5°	1808.2	1805.5	1817.7	1831.7	1850.8	1877.0	1902.2	1928.3	1949.2	1956.2	1958.0
10°	1812.5	1813.4	1829.9	1856.1	1886.5	1923.1	1958.8	2003.2	2032.8	2039.7	2046.7
12.5°	1832.6	1830.9	1858.6	1900.5	1942.3	1988.4	2030.2	2078.9	2111.1	2127.7	2134.7
15°	1869.1	1865.6	1904.8	1966.6	2027.6	2081.6	2115.5	2161.6	2199.0	2219.9	2227.8
17.5°	1912.6	1914.4	1965.7	2045.8	2126.0	2186.8	2219.1	2242.6	2271.3	2289.6	2298.3
20°	1989.2	1992.7	2050.2	2145.1	2236.4	2306.1	2332.3	2323.6	2331.4	2345.3	2355.8
22.5°	2092.0	2093.8	2158.1	2260.8	2356.7	2433.2	2450.7	2415.0	2393.2	2402.8	2409.8
25°	2211.2	2222.6	2287.0	2392.4	2490.6	2563.8	2571.6	2517.7	2463.7	2466.4	2470.7
27.5°	2356.7	2367.0	2432.3	2536.9	2636.9	2700.5	2699.6	2627.4	2548.1	2528.2	2534.2
30°	2514.2	2525.5	2592.5	2700.5	2793.6	2849.4	2837.2	2751.0	2637.8	2600.4	2604.7
32.5°	2701.4	2708.4	2776.2	2884.1	2970.3	3014.7	2989.5	2883.3	2742.3	2699.6	2710.1
35°	2927.7	2938.2	2988.7	3090.5	3166.2	3202.8	3160.2	3034.8	2876.4	2828.5	2835.5
37.5°	3186.3	3179.3	3236.7	3327.4	3390.0	3412.6	3354.3	3205.5	3029.6	2973.0	2983.5
40°	3456.2	3452.7	3515.3	3602.5	3636.4	3650.3	3564.1	3401.4	3206.3	3145.3	3165.4
42.5°	3700.8	3698.2	3782.7	3879.2	3920.2	3904.5	3795.7	3609.3	3410.9	3341.3	3358.6
45°	3896.6	3893.2	3996.8	4132.6	4212.6	4186.6	4040.3	3839.2	3618.0	3545.8	3562.4
47.5°	4047.3	4049.1	4160.5	4328.5	4468.6	4478.2	4290.1	4073.3	3846.2	3764.3	3788.7
50°	4156.1	4161.3	4280.6	4466.8	4658.4	4742.9	4545.3	4313.7	4082.1	3989.8	4017.7
52.5°	4183.1	4192.7	4336.3	4554.8	4780.3	4941.3	4804.7	4544.3	4305.8	4217.9	4240.5
55°	4039.4	4058.6	4240.5	4547.8	4855.1	5071.9	5032.8	4778.5	4531.3	4440.8	4466.0
57.5°	3709.5	3736.4	3948.9	4350.2	4838.6	5161.6	5209.5	5003.1	4756.8	4669.7	4689.8
60°	3247.2	3279.4	3483.2	3921.0	4605.3	5194.7	5334.0	5221.7	4964.0	4879.5	4897.9
62.5°	2549.9	2591.7	2835.5	3349.1	4112.6	5040.6	5440.2	5419.3	5150.3	5044.9	5057.1
65°	1635.8	1680.2	1937.0	2543.8	3455.3	4568.7	5473.3	5611.7	5347.0	5199.9	5218.2
67.5°	986.4	1006.3	1133.4	1541.8	2525.5	3857.5	5193.0	5825.0	5576.8	5394.1	5408.0
70°	631.2	642.5	718.2	905.4	1427.7	2814.5	4498.2	5865.0	5855.4	5593.4	5591.7
72.5°	428.3	431.8	451.8	536.3	807.9	1599.2	3317.7	5309.6	6029.6	5850.2	5822.4
75°	313.4	332.5	364.8	379.6	458.8	799.2	1901.3	3730.4	5081.5	5159.8	4970.1
77.5°	233.3	234.2	278.6	296.0	327.4	425.7	804.4	2082.4	3155.0	3312.5	2954.7
80°	197.6	187.2	186.3	238.5	246.4	265.5	359.6	719.1	1130.0	685.1	518.0
82.5°	164.5	153.2	138.4	186.3	168.0	162.8	155.8	292.5	359.6	176.7	150.6
85°	114.9	109.7	104.4	121.9	95.7	81.8	74.8	136.6	151.5	74.8	66.1
87.5°	49.6	51.4	52.3	54.0	40.1	28.7	28.7	38.3	38.3	29.6	21.7
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)