

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: P968923

Luminaire Tested: **NVN-SB5C-830-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968923
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-SB5C-830-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35243.6 lumens
Efficiency: N/A
Efficacy: 141.3 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): 249.5
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



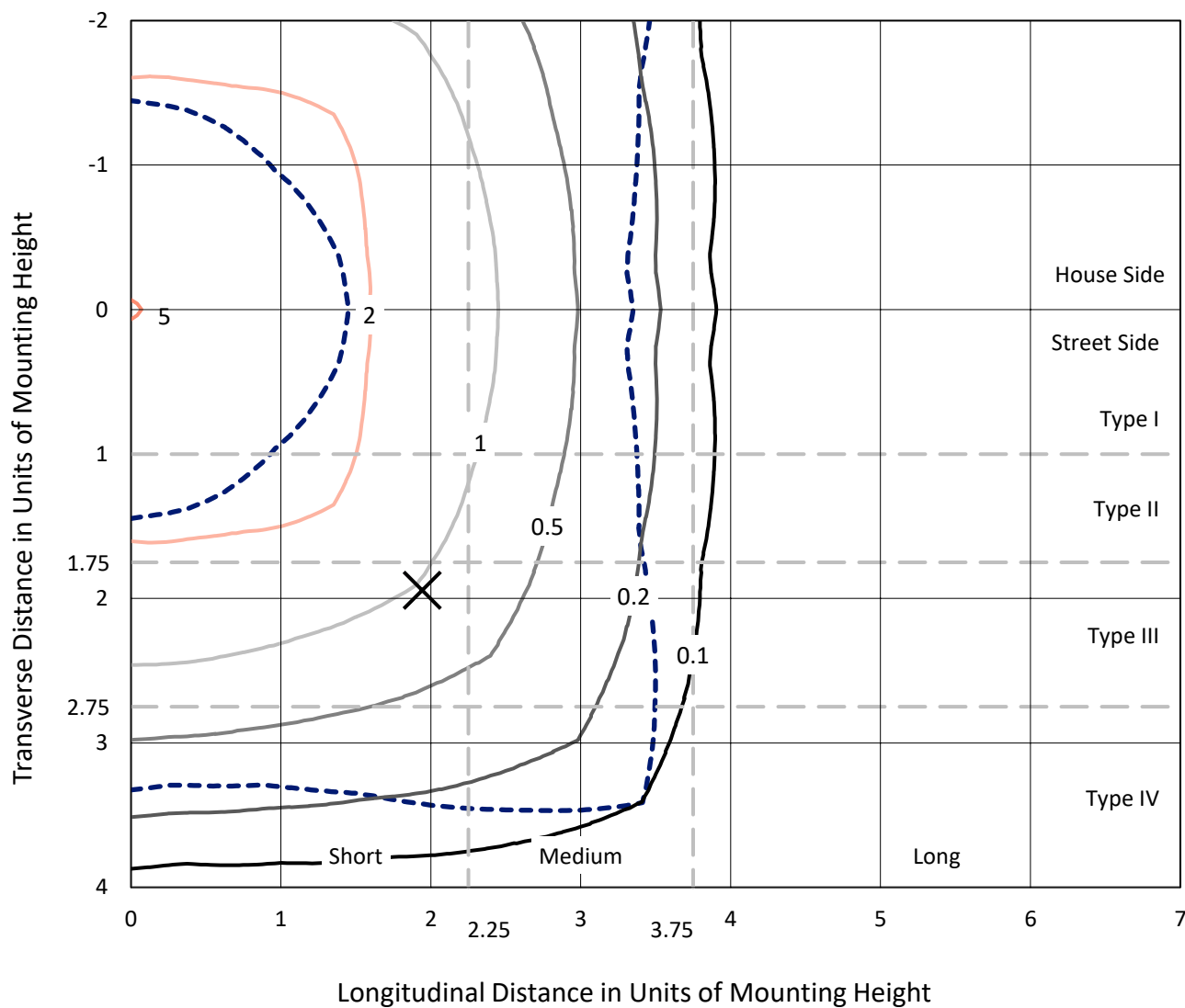
REPORT NUMBER: P968923

CATALOG NUMBER: NVN-SB5C-830-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

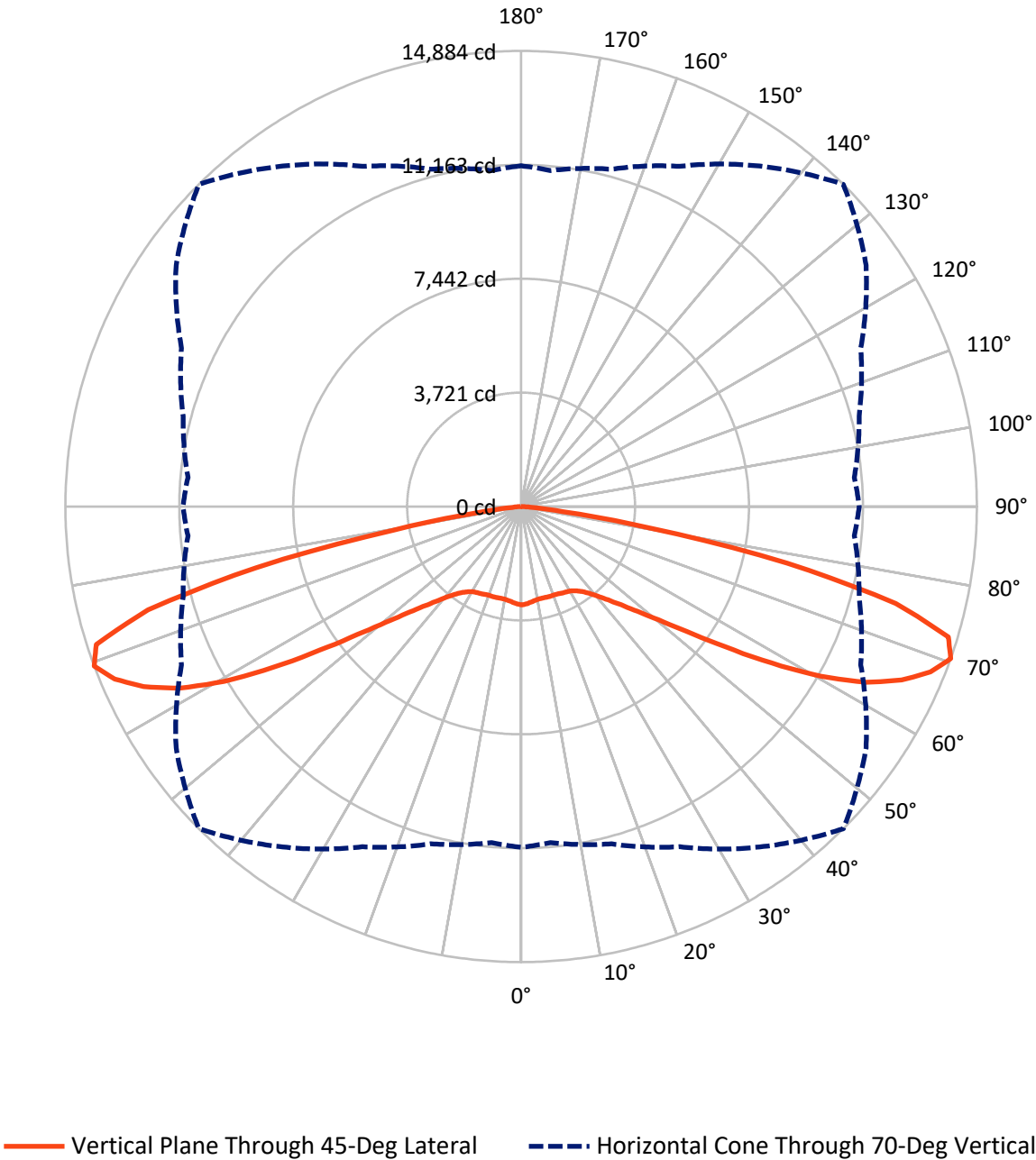
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
Type V - Short - N/A

REPORT NUMBER: P968923
CATALOG NUMBER: NVN-SB5C-830-U-5WQ

Luminous Intensity Polar Plot



REPORT NUMBER: P968923

CATALOG NUMBER: NVN-SB5C-830-U-5WQ

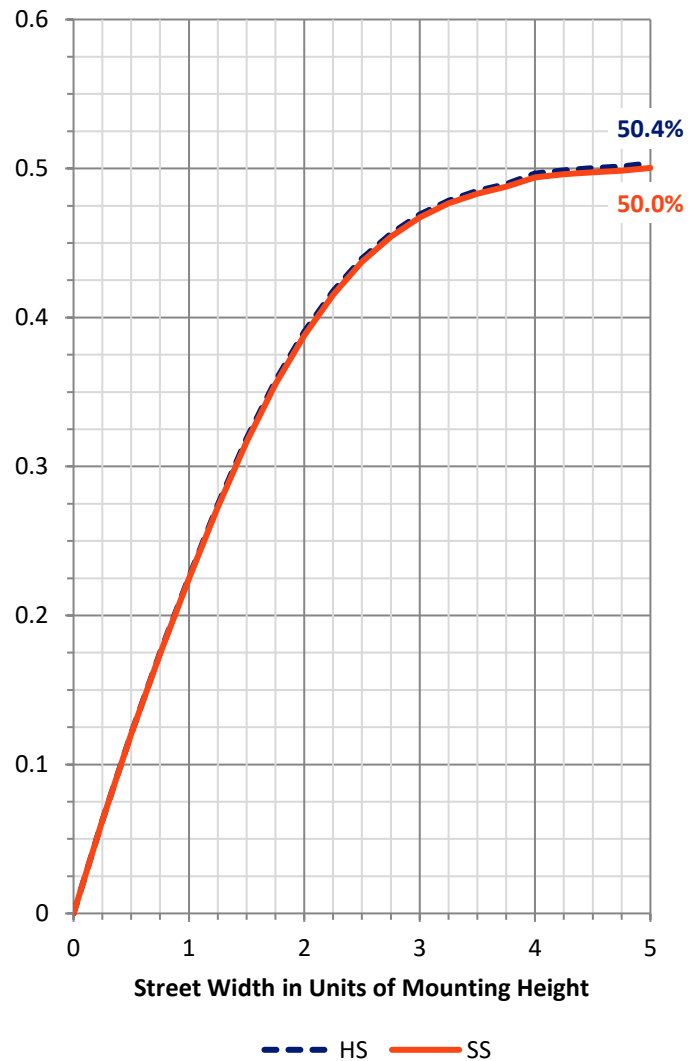
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17621.8	0.0	17621.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17621.8	0.0	17621.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	35243.6	0.0	35243.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	299.1	0.8
10°-20°	878.1	2.5
20°-30°	1461.3	4.1
30°-40°	2210.0	6.3
40°-50°	3672.4	10.4
50°-60°	6929.8	19.7
60°-70°	11701.2	33.2
70°-80°	7688.9	21.8
80°-90°	402.8	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°	35243.6	100.0
0°-180°	35243.6	100.0

Coefficient of Utilization



REPORT NUMBER: P968923

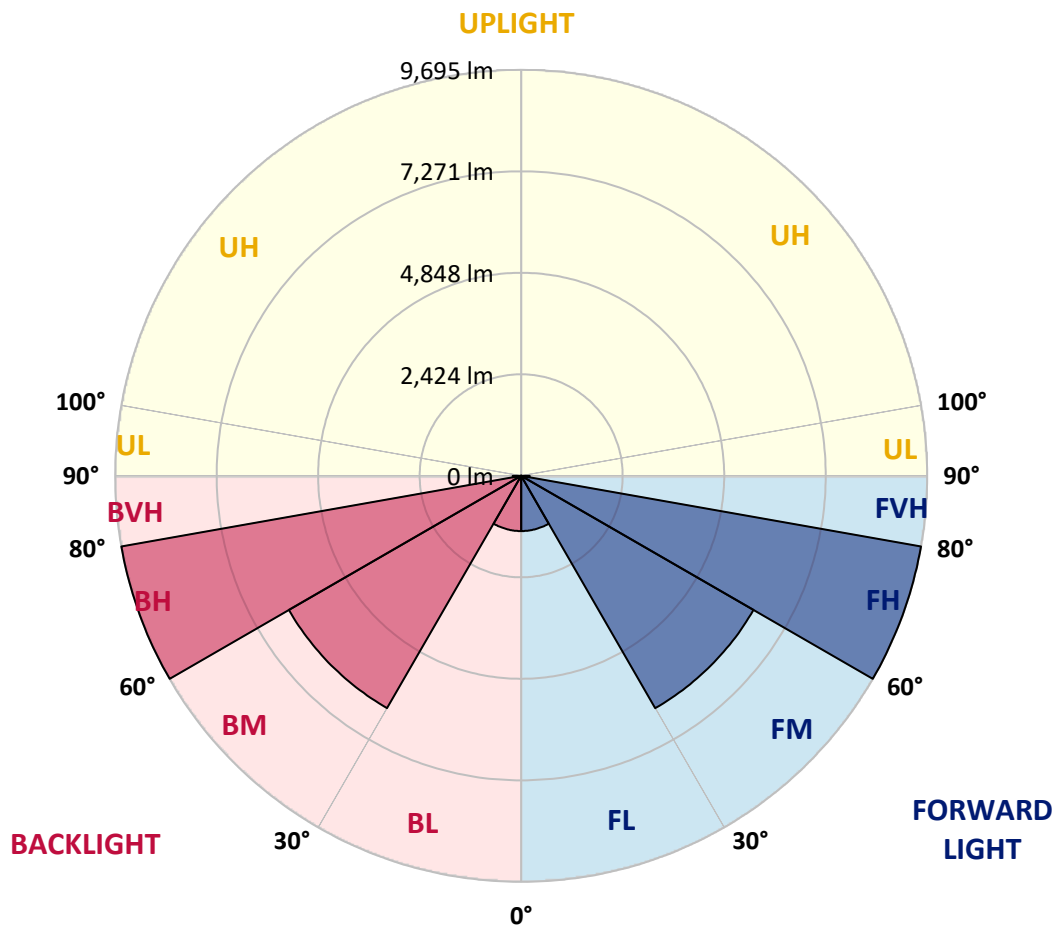
CATALOG NUMBER: NVN-SB5C-830-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1319.3	3.7			
FM	(30°-60°)	6406.1	18.2			
FH	(60°-80°)	9695.1	27.5			G4/12000
FVH	(80°-90°)	201.4	0.6			G2/225
BL	(0°-30°)	1319.3	3.7	B3/2500		
BM	(30°-60°)	6406.1	18.2	B4/8500		
BH	(60°-80°)	9695.1	27.5	B5		G4/12000
BVH	(80°-90°)	201.4	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



REPORT NUMBER: P968923

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3214.9	3214.9	3214.9	3214.9	3214.9	3214.9	3214.9	3214.9	3214.9	3214.9	3214.9
2.5°	3194.8	3203.9	3200.3	3193.0	3193.0	3187.4	3193.0	3196.6	3202.1	3205.8	3203.9
5°	3152.6	3160.0	3158.1	3152.6	3154.4	3149.0	3152.6	3158.1	3161.8	3163.7	3163.7
7.5°	3116.0	3123.4	3119.7	3110.5	3110.5	3105.0	3106.9	3112.3	3117.8	3119.7	3119.7
10°	3106.9	3114.2	3103.2	3088.5	3083.0	3075.7	3077.6	3083.0	3094.1	3099.5	3099.5
12.5°	3110.5	3116.0	3105.0	3083.0	3077.6	3070.2	3070.2	3075.7	3090.4	3097.7	3099.5
15°	3121.5	3127.0	3110.5	3086.7	3081.1	3075.7	3073.9	3081.1	3097.7	3110.5	3112.3
17.5°	3141.6	3147.2	3121.5	3088.5	3081.1	3083.0	3081.1	3086.7	3112.3	3136.2	3136.2
20°	3160.0	3163.7	3128.8	3088.5	3081.1	3083.0	3081.1	3092.2	3125.1	3158.1	3160.0
22.5°	3165.5	3169.1	3136.2	3101.3	3095.8	3097.7	3095.8	3106.9	3138.0	3170.9	3170.9
25°	3167.2	3172.8	3147.2	3119.7	3128.8	3132.5	3128.8	3130.7	3154.4	3183.8	3181.9
27.5°	3194.8	3202.1	3178.3	3154.4	3160.0	3158.1	3163.7	3169.1	3187.4	3216.8	3209.5
30°	3251.6	3257.0	3237.0	3213.1	3209.5	3196.6	3213.1	3231.4	3251.6	3277.2	3271.7
32.5°	3345.0	3356.0	3330.3	3304.7	3288.2	3280.9	3293.7	3324.8	3352.4	3379.8	3368.8
35°	3500.7	3508.1	3484.2	3436.6	3407.3	3407.3	3418.3	3458.6	3502.5	3537.4	3524.5
37.5°	3720.5	3729.7	3687.5	3630.8	3586.8	3586.8	3601.4	3643.6	3709.6	3759.0	3740.6
40°	3988.0	4000.8	3947.7	3889.1	3846.9	3839.5	3857.9	3905.6	3967.8	4030.1	4010.0
42.5°	4310.4	4325.0	4255.4	4204.1	4171.1	4171.1	4180.4	4224.3	4281.1	4358.0	4352.6
45°	4722.6	4748.2	4653.0	4601.6	4570.5	4577.9	4583.3	4621.8	4673.1	4761.0	4757.3
47.5°	5213.5	5239.2	5138.4	5085.2	5079.8	5114.5	5092.6	5120.1	5147.5	5248.3	5219.0
50°	5770.3	5814.3	5744.7	5741.0	5752.1	5816.2	5764.9	5779.6	5748.4	5812.5	5774.0
52.5°	6451.9	6515.9	6503.1	6525.2	6647.8	6779.8	6662.5	6611.2	6494.0	6514.1	6446.3
55°	7278.0	7375.1	7393.4	7525.3	7803.7	8073.0	7823.9	7616.9	7367.8	7322.0	7250.5
57.5°	8217.7	8294.7	8382.7	8651.9	9172.1	9650.3	9172.1	8714.1	8322.2	8228.7	8162.8
60°	9228.9	9324.2	9408.5	9806.0	10579.0	11251.3	10564.4	9837.1	9318.7	9192.3	9082.4
62.5°	10315.2	10438.0	10496.6	10938.1	11839.4	12641.7	11852.2	10971.1	10395.9	10260.2	10150.4
65°	11357.6	11458.4	11524.3	11995.1	12856.1	13660.3	12914.7	12046.3	11454.7	11276.9	11189.0
67.5°	11843.1	11898.0	12059.2	12592.2	13500.9	14418.6	13654.7	12649.0	11987.8	11676.3	11680.0
70°	11132.2	11020.5	11408.9	12262.5	13577.8	14883.9	13753.7	12236.9	11427.2	10921.6	11042.5
72.5°	8602.4	8410.1	9084.3	10544.2	12698.5	14587.2	12786.5	10626.7	9503.7	8477.9	8732.5
75°	4680.5	4462.4	5393.0	7239.6	10126.6	12643.6	10359.2	7446.5	6004.9	4645.6	4947.9
77.5°	1320.8	1238.3	1989.4	3502.5	6091.0	8877.2	6325.5	3579.5	2359.4	1399.5	1555.2
80°	404.9	392.1	531.3	1055.1	2586.6	4251.8	2485.8	1067.9	676.0	426.8	450.6
82.5°	240.0	219.9	263.8	384.7	659.5	1335.5	641.1	401.2	322.4	216.2	234.5
85°	137.4	128.2	155.7	186.9	221.6	283.9	185.0	190.5	172.2	115.4	121.0
87.5°	56.8	51.2	60.5	58.6	51.2	65.9	49.5	58.6	69.6	45.8	42.1
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)