

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: P969449

Luminaire Tested: **NVN-SB5D-830-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969449
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB5D-830-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49611 lumens
Efficiency: N/A
Efficacy: 136.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 364.9
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

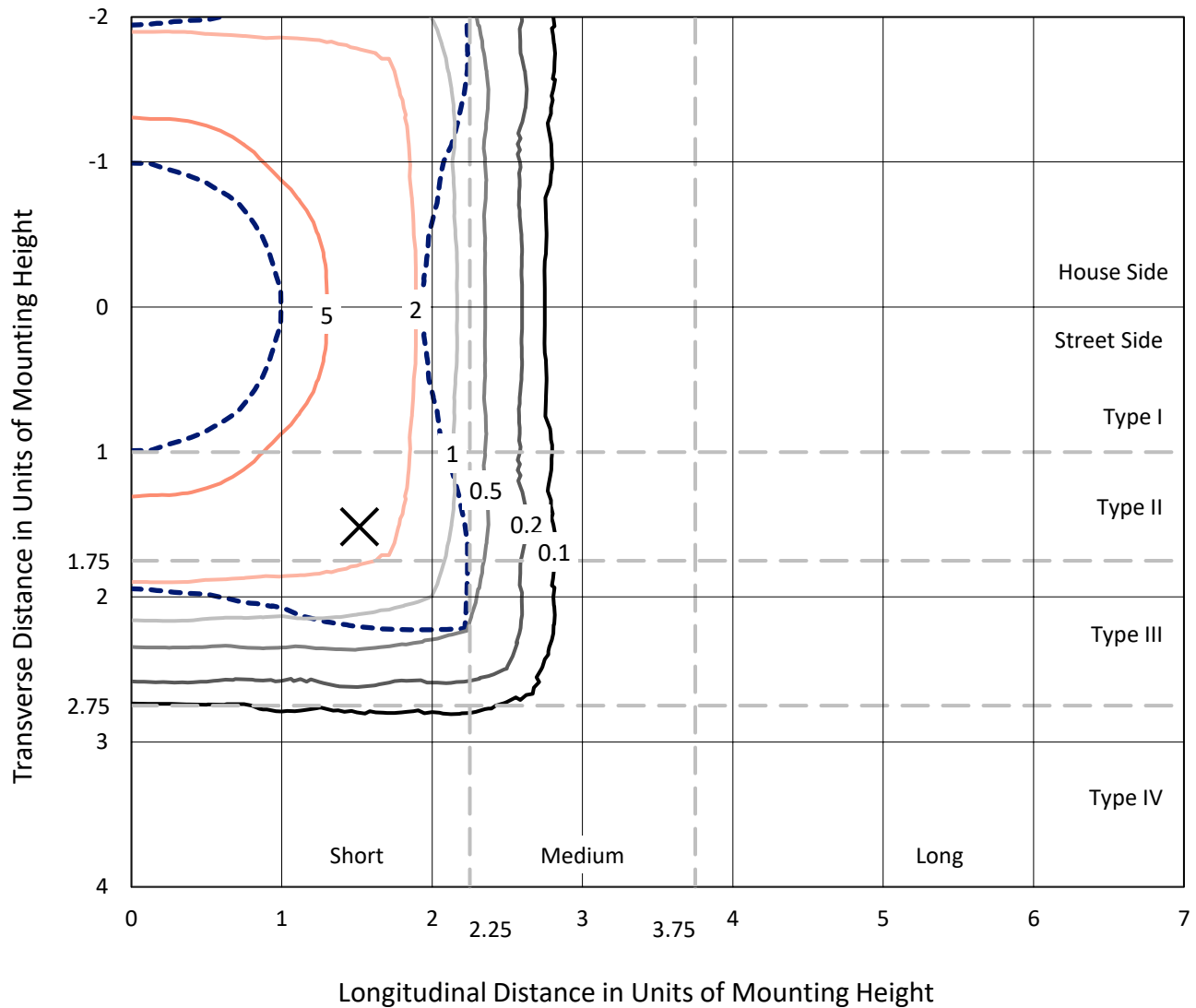


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Iso-Footcandle Lines of Horizontal Illumination

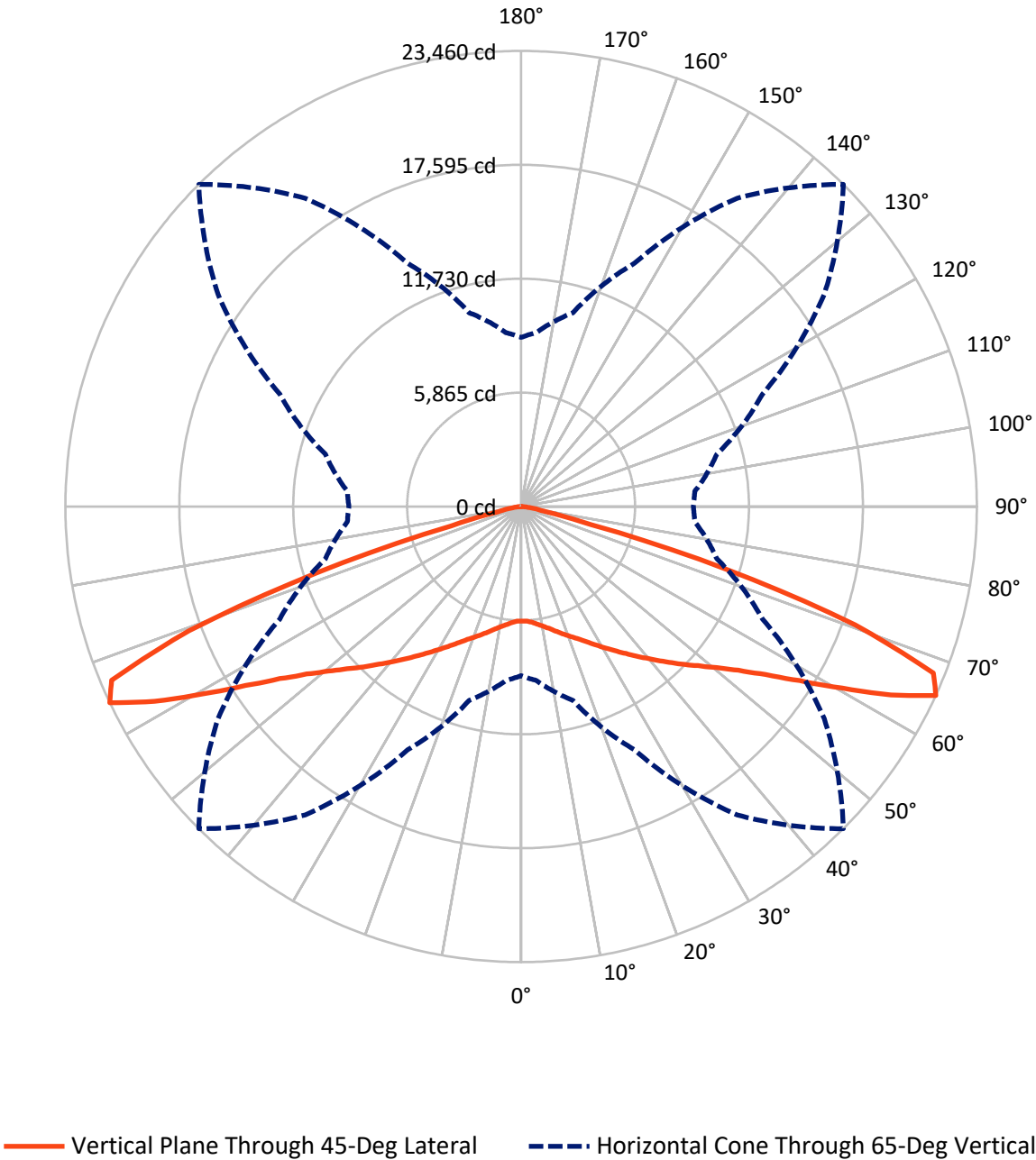
× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	24805.5	0.0	24805.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	24805.5	0.0	24805.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	49611.0	0.0	49611.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	582.7	1.2
10°-20°	1901.4	3.8
20°-30°	3590.0	7.2
30°-40°	5878.5	11.8
40°-50°	9114.6	18.4
50°-60°	13464.2	27.1
60°-70°	12816.6	25.8
70°-80°	2068.1	4.2
80°-90°	194.9	0.4
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°	49611.0	100.0
0°-180°	49611.0	100.0

Coefficient of Utilization



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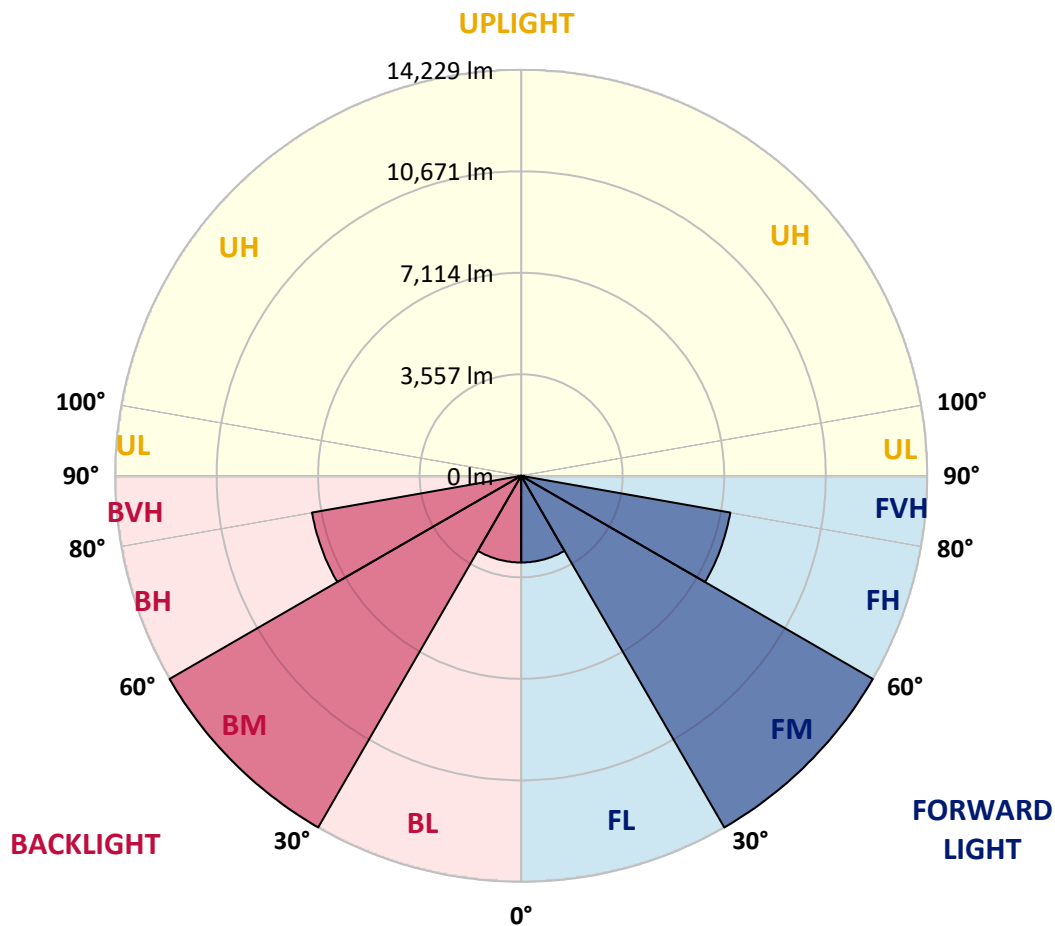
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3037.0	6.1			
FM	(30°-60°)	14228.6	28.7			
FH	(60°-80°)	7442.4	15.0			G3/7500
FVH	(80°-90°)	97.5	0.2			G1/100
BL	(0°-30°)	3037.0	6.1	B4/5000		
BM	(30°-60°)	14228.6	28.7	B5		
BH	(60°-80°)	7442.4	15.0	B5		G3/7500
BVH	(80°-90°)	97.5	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5904.2	5904.2	5904.2	5904.2	5904.2	5904.2	5904.2	5904.2	5904.2	5904.2	5904.2
2.5°	5944.1	5924.1	5939.1	5926.7	5916.6	5906.7	5911.7	5929.1	5936.6	5939.1	5939.1
5°	6023.7	6006.3	6013.8	6013.8	5996.4	5991.3	5993.8	6006.3	6021.2	6021.2	6021.2
7.5°	6153.1	6135.6	6153.1	6143.1	6128.3	6123.2	6120.8	6130.7	6153.1	6153.1	6145.7
10°	6309.9	6290.0	6300.0	6295.0	6277.6	6270.1	6267.7	6282.5	6302.4	6300.0	6295.0
12.5°	6481.7	6459.2	6471.7	6456.8	6451.9	6444.4	6444.4	6441.8	6454.3	6444.4	6449.3
15°	6673.4	6658.4	6663.4	6653.5	6660.9	6655.9	6636.1	6626.0	6631.0	6616.1	6618.6
17.5°	6899.9	6865.0	6882.5	6877.4	6877.4	6887.4	6855.1	6842.6	6852.5	6837.7	6850.1
20°	7161.3	7126.4	7133.8	7123.9	7111.4	7121.4	7081.5	7091.6	7098.9	7089.0	7111.4
22.5°	7447.4	7402.7	7400.2	7405.1	7377.7	7380.3	7352.8	7377.7	7392.7	7365.3	7392.7
25°	7741.2	7693.9	7726.2	7713.8	7679.0	7686.4	7666.5	7691.4	7703.8	7669.0	7708.8
27.5°	8052.3	8020.0	8049.8	8057.3	8015.0	8044.8	8015.0	8037.4	8049.8	7997.6	8037.4
30°	8415.8	8383.4	8410.7	8430.6	8380.9	8428.2	8403.3	8418.2	8420.7	8358.5	8395.8
32.5°	8811.5	8761.7	8831.4	8841.3	8786.6	8843.9	8811.5	8831.4	8843.9	8759.2	8816.4
35°	9294.4	9232.2	9311.8	9299.4	9252.1	9299.4	9269.5	9299.4	9329.2	9227.2	9289.4
37.5°	9814.6	9749.9	9834.6	9812.1	9767.3	9799.7	9782.3	9802.2	9849.4	9740.0	9807.2
40°	10387.1	10307.5	10422.0	10382.1	10339.8	10334.9	10344.8	10357.2	10419.4	10297.6	10337.3
42.5°	10999.5	10914.8	11086.6	11024.4	10964.6	10924.8	10957.1	10982.1	11041.8	10904.9	10977.0
45°	11698.9	11601.8	11825.8	11751.2	11656.6	11574.4	11626.7	11664.1	11751.2	11586.9	11671.5
47.5°	12470.6	12361.0	12599.9	12577.6	12423.2	12244.0	12363.4	12470.6	12535.2	12336.1	12403.3
50°	13224.8	13140.1	13453.7	13481.1	13291.9	13040.6	13207.3	13369.1	13386.5	13125.1	13157.5
52.5°	13931.6	13847.0	14302.5	14474.2	14305.0	14006.3	14183.0	14347.3	14215.4	13876.9	13886.8
55°	14496.7	14427.0	15006.9	15450.0	15507.2	15260.8	15365.4	15360.4	14927.3	14407.1	14424.5
57.5°	14633.6	14623.6	15355.4	16293.8	16891.2	16921.1	16714.5	16186.8	15253.3	14553.9	14509.1
60°	14011.3	14073.6	15079.1	16734.4	18327.4	18989.6	18096.0	16590.0	14882.5	13911.7	13797.2
62.5°	12149.4	12313.7	13525.9	16196.7	19487.4	21369.2	19203.6	15977.7	13359.1	12092.1	12017.5
65°	8707.0	8993.2	10332.4	13822.1	19382.9	23460.0	19044.3	13710.1	10431.9	8970.8	8863.8
67.5°	3950.2	4241.4	5379.0	9463.6	16848.8	22892.5	16809.1	9563.2	5647.9	4256.4	4194.2
70°	1431.2	1481.0	1846.9	3788.4	10767.9	18240.3	11228.5	3815.9	1963.9	1578.1	1558.2
72.5°	866.2	873.7	950.9	1356.6	3741.1	11074.1	3900.4	1401.4	970.8	861.2	876.2
75°	550.1	545.1	677.0	828.9	1326.7	3736.2	1391.4	828.9	674.6	614.8	619.8
77.5°	395.8	408.3	485.3	619.8	836.3	1267.0	821.4	592.4	485.3	398.2	405.7
80°	296.2	303.7	353.4	482.9	587.4	789.0	522.8	438.1	365.9	248.9	256.4
82.5°	214.0	214.0	231.4	351.0	358.4	425.7	283.7	308.6	241.5	176.7	176.7
85°	126.9	124.4	144.3	209.1	186.7	156.8	129.5	189.2	151.8	109.6	107.0
87.5°	44.8	47.3	44.8	59.8	49.8	42.3	39.9	52.3	42.3	37.3	34.8
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)