

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: P968890

Luminaire Tested: **NVN-SB5C-827-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968890
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB5C-827-U-5MQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35312.3 lumens
Efficiency: N/A
Efficacy: 141.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

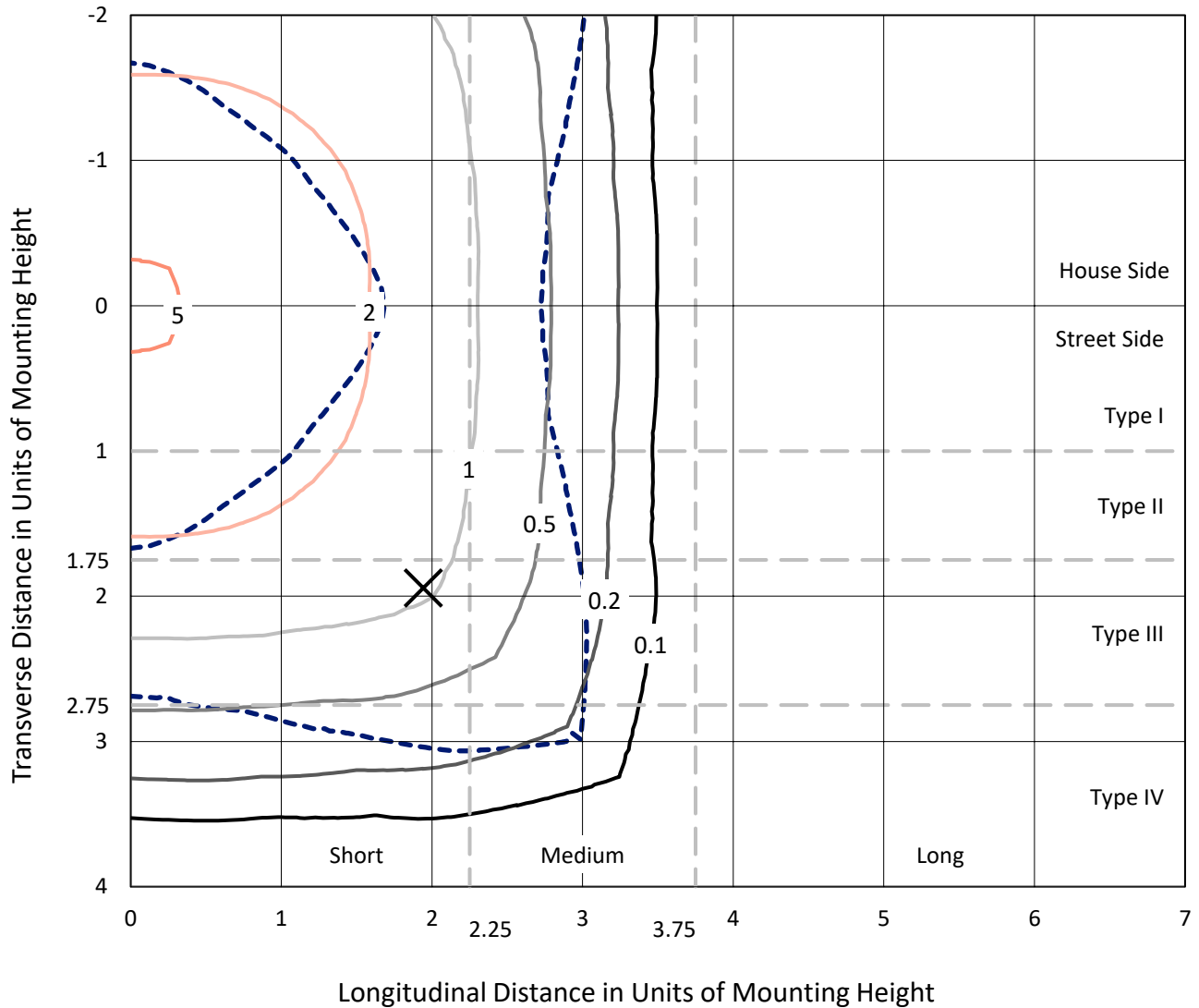
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

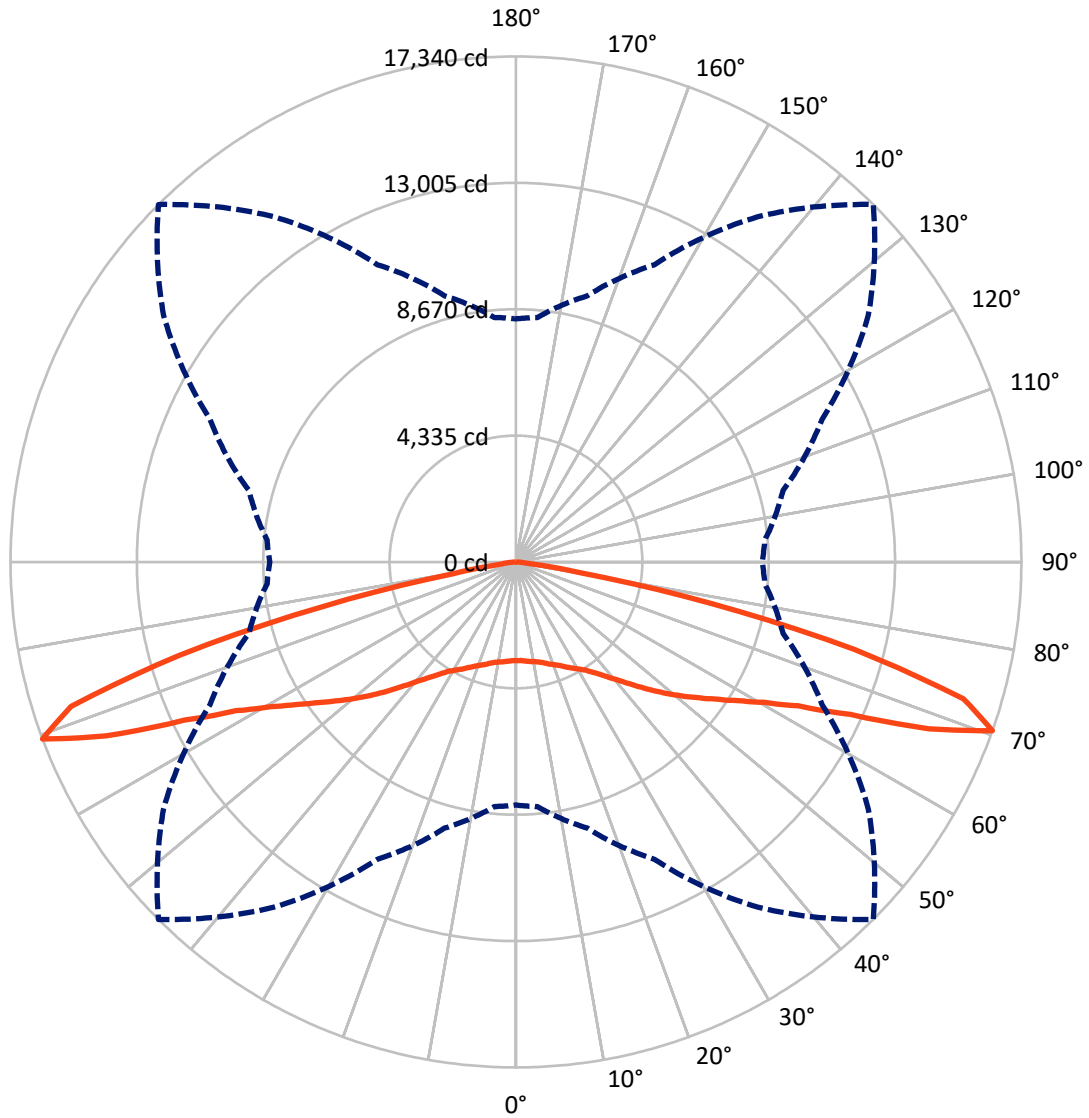
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 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	17656.1	0.0	17656.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17656.1	0.0	17656.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	35312.3	0.0	35312.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	328.6	0.9
10°-20°	1019.0	2.9
20°-30°	1821.1	5.2
30°-40°	2951.9	8.4
40°-50°	4808.2	13.6
50°-60°	7330.9	20.8
60°-70°	10906.0	30.9
70°-80°	5944.1	16.8
80°-90°	202.4	0.6
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°	35312.3	100.0
0°-180°	35312.3	100.0

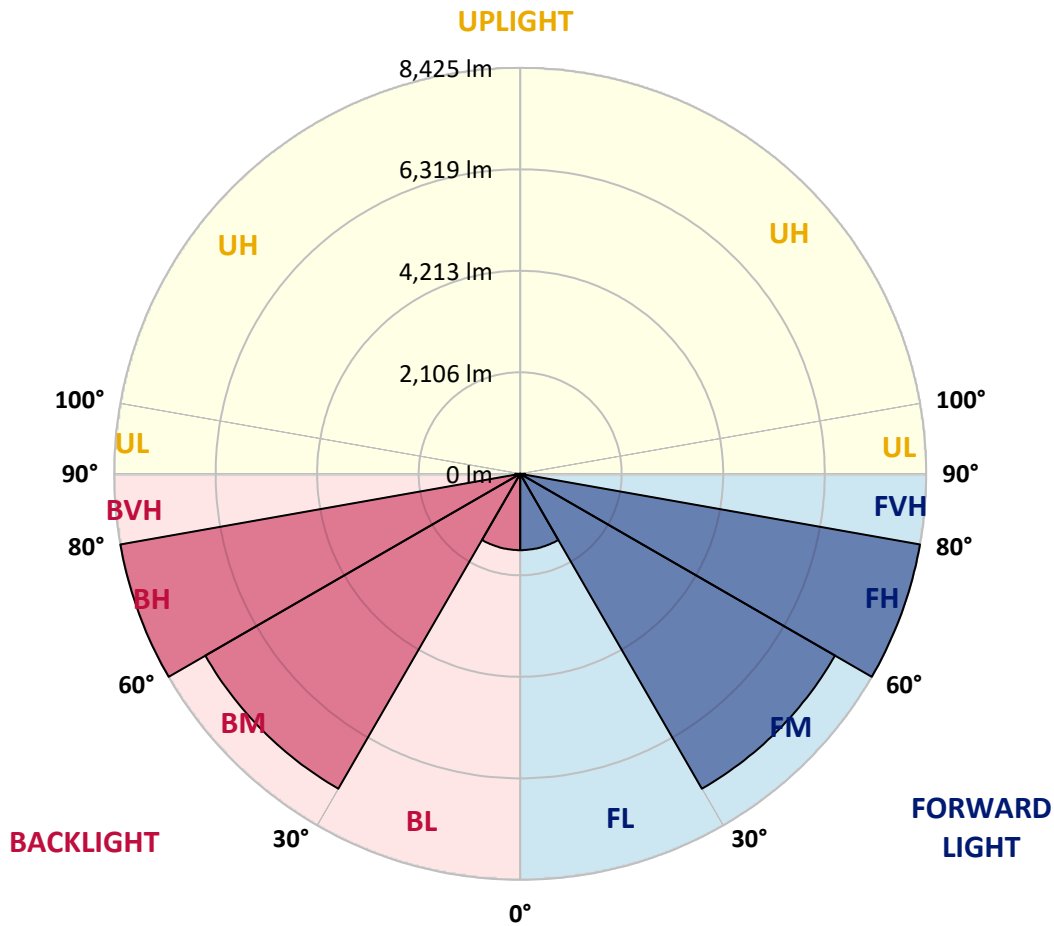


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1584.3	4.5			
FM (30°-60°)	7545.5	21.4			
FH (60°-80°)	8425.1	23.9			G4/12000
FVH (80°-90°)	101.2	0.3			G2/225
BL (0°-30°)	1584.3	4.5	B3/2500		
BM (30°-60°)	7545.5	21.4	B4/8500		
BH (60°-80°)	8425.1	23.9	B5		G4/12000
BVH (80°-90°)	101.2	0.3			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°	3382.5	3382.5	3382.5	3382.5	3382.5	3382.5	3382.5	3382.5	3382.5	3382.5	3382.5
2.5°	3398.5	3402.1	3395.0	3391.4	3387.8	3382.5	3384.3	3393.2	3400.2	3398.5	3400.2
5°	3426.9	3430.4	3425.1	3423.3	3416.2	3414.5	3414.5	3423.3	3428.6	3425.1	3426.9
7.5°	3458.8	3464.1	3455.3	3453.4	3449.9	3446.4	3444.6	3453.4	3458.8	3458.8	3458.8
10°	3488.9	3494.2	3487.2	3481.8	3478.2	3478.2	3474.7	3481.8	3490.7	3488.9	3488.9
12.5°	3520.9	3524.4	3517.3	3513.7	3513.7	3519.0	3513.7	3517.3	3524.4	3520.9	3519.0
15°	3559.8	3561.6	3559.8	3565.2	3574.0	3591.7	3575.8	3572.2	3575.8	3566.9	3566.9
17.5°	3613.0	3616.6	3623.7	3636.1	3648.5	3680.4	3652.0	3643.2	3643.2	3625.4	3625.4
20°	3678.6	3684.0	3694.6	3715.8	3731.8	3762.0	3733.6	3721.2	3715.8	3692.8	3692.8
22.5°	3747.7	3756.6	3772.6	3800.9	3829.3	3857.7	3829.3	3808.0	3792.1	3762.0	3760.2
25°	3827.6	3838.2	3863.0	3909.0	3948.1	3988.9	3955.2	3912.6	3880.8	3838.2	3836.4
27.5°	3941.0	3953.4	3983.6	4040.2	4090.0	4125.3	4093.4	4038.5	3994.2	3942.8	3941.0
30°	4100.5	4112.9	4148.4	4208.6	4242.4	4265.4	4244.1	4201.6	4148.4	4090.0	4090.0
32.5°	4306.2	4322.1	4361.2	4417.9	4424.9	4428.5	4421.4	4400.1	4361.2	4290.2	4292.0
35°	4566.8	4584.5	4628.8	4674.9	4667.8	4674.9	4664.3	4657.2	4628.8	4547.3	4547.3
37.5°	4885.9	4907.2	4953.3	4988.8	4971.0	4962.1	4963.9	4965.7	4949.7	4859.3	4859.3
40°	5256.4	5284.8	5318.5	5355.7	5325.6	5298.9	5316.7	5330.9	5316.7	5224.5	5224.5
42.5°	5637.6	5678.4	5713.9	5767.0	5742.2	5708.5	5733.3	5749.2	5719.1	5619.9	5626.9
45°	6061.3	6100.3	6146.4	6226.2	6208.4	6173.0	6208.4	6212.0	6160.6	6043.6	6056.0
47.5°	6499.2	6539.9	6609.1	6715.5	6708.4	6669.4	6715.5	6690.7	6625.1	6485.0	6476.2
50°	6914.0	6970.7	7077.1	7226.0	7240.2	7192.3	7254.4	7206.6	7096.6	6921.1	6917.5
52.5°	7304.0	7364.3	7532.7	7734.9	7786.2	7724.2	7807.5	7724.2	7559.4	7334.2	7312.9
55°	7713.5	7781.0	7981.3	8245.4	8348.2	8302.1	8380.2	8254.3	8020.2	7747.3	7710.0
57.5°	8195.8	8236.6	8475.8	8789.7	8963.4	8974.1	9009.5	8796.8	8513.1	8202.9	8160.3
60°	8718.8	8775.4	9036.1	9412.0	9686.8	9775.3	9738.1	9422.5	9092.8	8736.5	8679.8
62.5°	9388.9	9450.9	9762.9	10213.2	10647.6	10867.5	10722.0	10264.7	9856.9	9429.7	9355.2
65°	9943.7	10012.9	10576.7	11379.8	12170.4	12611.9	12246.7	11404.6	10670.7	10067.9	9968.6
67.5°	9541.3	9626.4	10511.1	11986.0	13952.1	15269.3	14019.5	12166.9	10729.2	9911.9	9789.6
70°	8339.4	8419.1	9450.9	11253.9	14453.8	17340.0	14755.2	11585.4	9484.6	8569.8	8447.5
72.5°	5536.5	5793.6	6837.8	9000.6	12906.2	16045.9	13033.8	8818.1	6343.2	5524.1	5345.1
75°	1836.7	2042.3	2755.0	4666.1	8644.3	12000.3	8229.4	4128.9	2182.3	1570.7	1485.6
77.5°	462.7	533.6	735.7	1335.0	3448.1	6832.4	3104.2	1090.3	593.9	414.8	370.5
80°	225.2	248.2	354.5	445.0	863.4	2171.7	810.2	418.4	280.1	216.3	198.5
82.5°	124.1	125.9	200.3	251.7	320.9	562.0	333.3	244.7	161.3	131.2	131.2
85°	76.3	74.4	106.4	134.7	134.7	200.3	159.6	134.7	92.1	81.6	85.1
87.5°	30.1	30.1	39.1	42.5	37.2	51.5	40.8	44.3	35.5	33.7	35.5
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)