

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: P884102

Luminaire Tested: **NVN-SB4D-735-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P884102
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB4D-735-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41714 lumens
Efficiency: N/A
Efficacy: 142.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

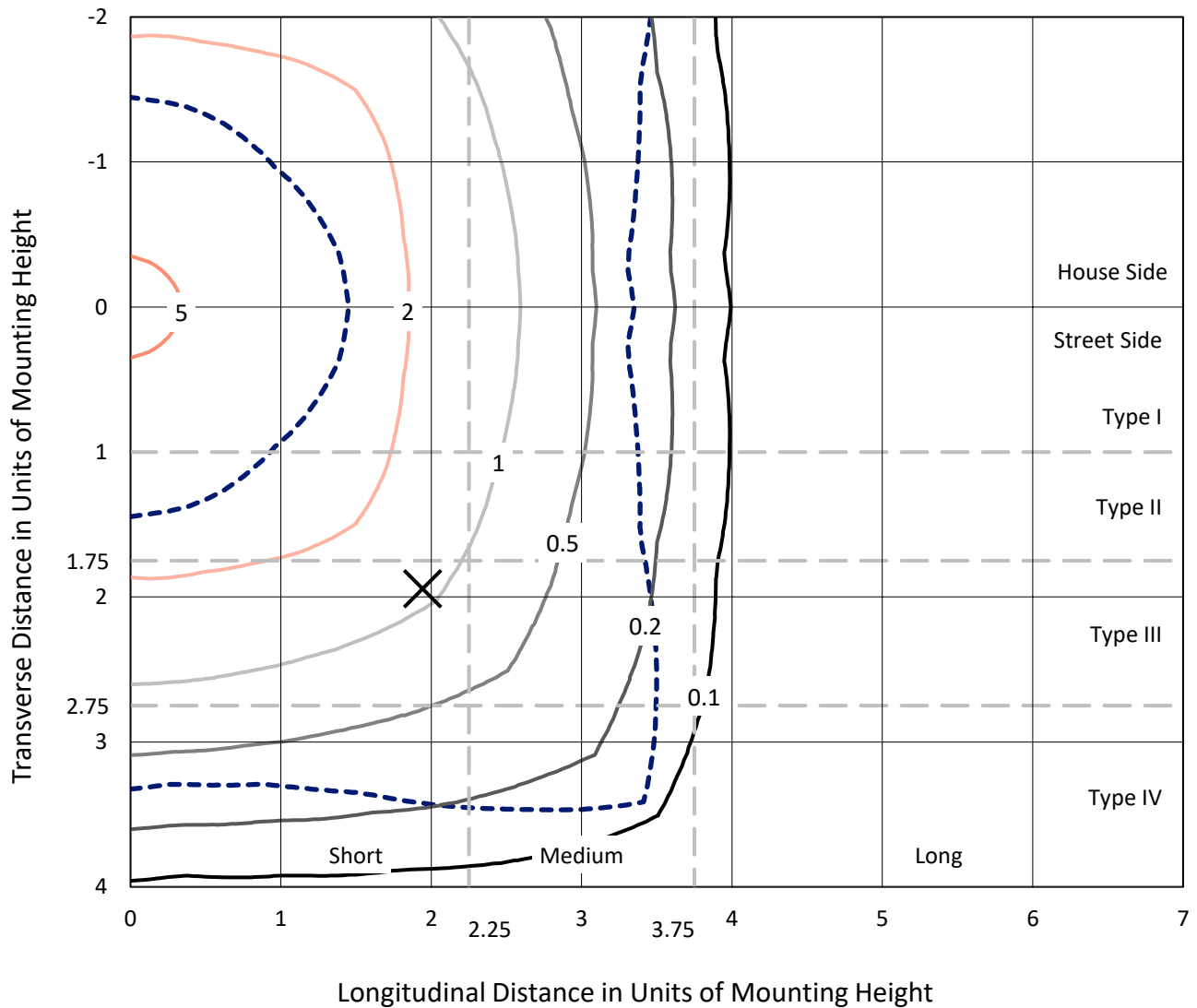
Input Watts (W): 293.6
Input Voltage (V): 120.0
Input Current (Ain): 2.469
Voltage Rise (V): NR
Power Factor: 0.999
Total Harmonic Distortion (THDi): 3.108
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P884102
 CATALOG NUMBER: NVN-SB4D-735-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

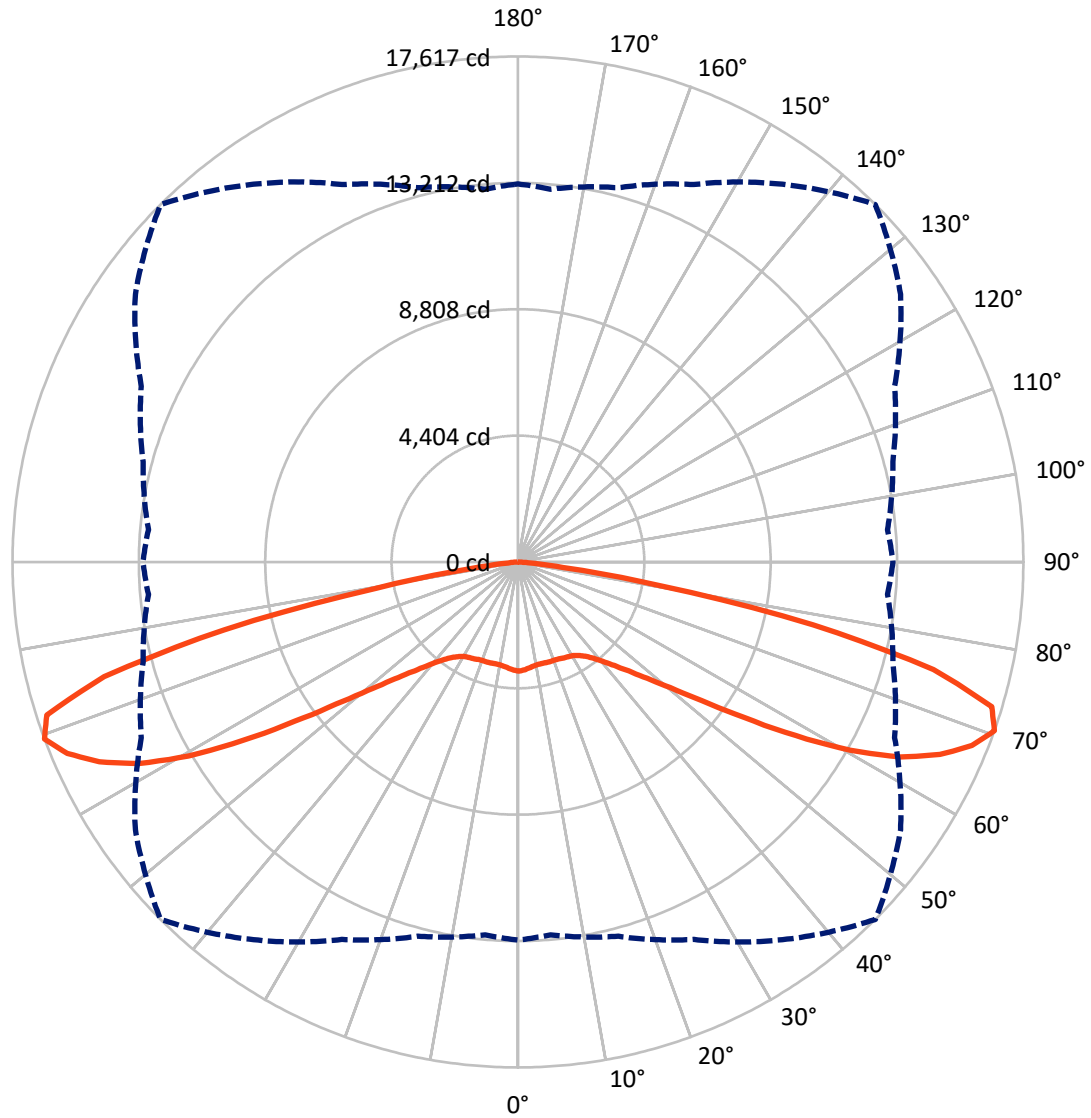
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type V - Short - N/A

REPORT NUMBER: P884102
CATALOG NUMBER: NVN-SB4D-735-U-5WQ

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P884102
 CATALOG NUMBER: NVN-SB4D-735-U-5WQ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20857.0	0.0	20857.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20857.0	0.0	20857.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	41714.0	0.0	41714.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	354.0	0.8
10°-20°	1039.3	2.5
20°-30°	1729.6	4.1
30°-40°	2615.7	6.3
40°-50°	4346.7	10.4
50°-60°	8202.0	19.7
60°-70°	13849.4	33.2
70°-80°	9100.5	21.8
80°-90°	476.8	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°	41714.0	100.0
0°-180°	41714.0	100.0



REPORT NUMBER: P884102

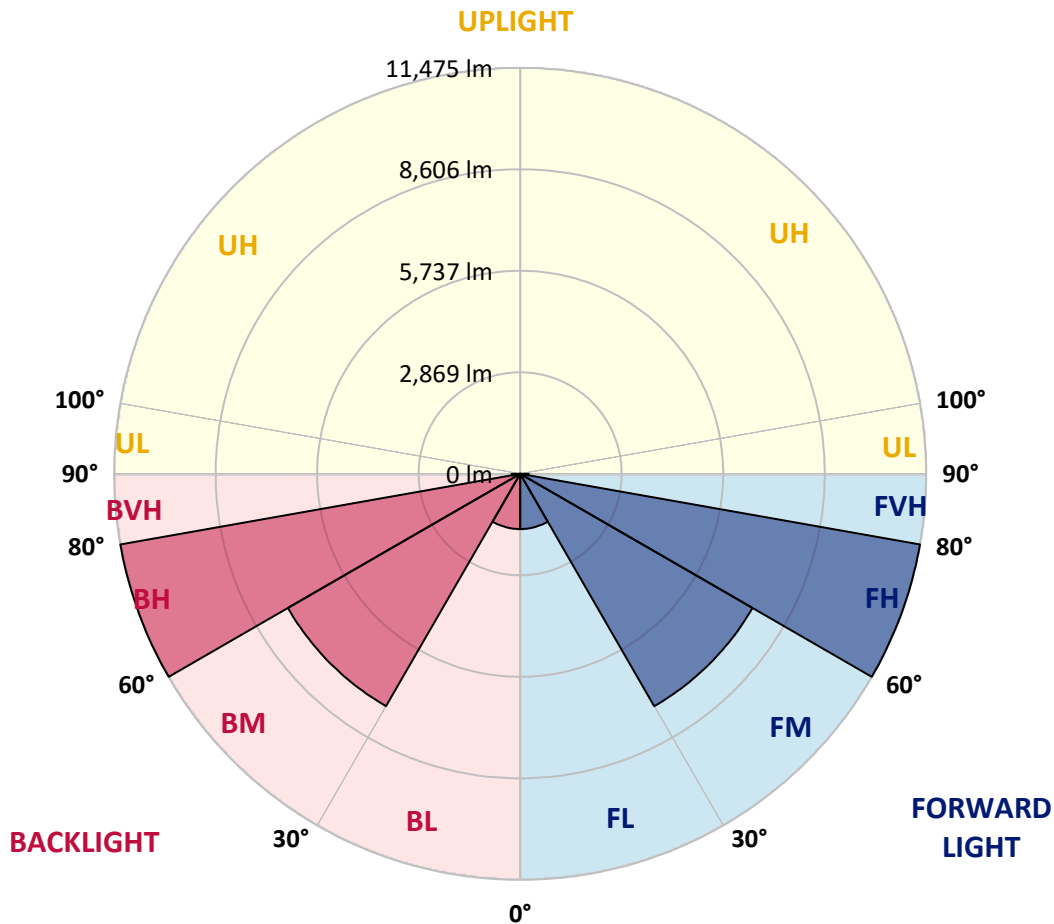
CATALOG NUMBER: NVN-SB4D-735-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1561.5	3.7			
FM (30°-60°)	7582.2	18.2			
FH (60°-80°)	11475.0	27.5			G4/12000
FVH (80°-90°)	238.4	0.6			G3/500
BL (0°-30°)	1561.5	3.7	B3/2500		
BM (30°-60°)	7582.2	18.2	B4/8500		
BH (60°-80°)	11475.0	27.5	B5		G4/12000
BVH (80°-90°)	238.4	0.6			G3/500
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: P884102
 CATALOG NUMBER: NVN-SB4D-735-U-5WQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3805.2	3805.2	3805.2	3805.2	3805.2	3805.2	3805.2	3805.2	3805.2	3805.2	3805.2
2.5°	3781.3	3792.1	3787.8	3779.1	3779.1	3772.6	3779.1	3783.5	3790.0	3794.3	3792.1
5°	3731.4	3740.1	3737.9	3731.4	3733.6	3727.1	3731.4	3737.9	3742.3	3744.4	3744.4
7.5°	3688.1	3696.7	3692.4	3681.6	3681.6	3675.1	3677.2	3683.7	3690.2	3692.4	3692.4
10°	3677.2	3685.9	3672.9	3655.6	3649.0	3640.4	3642.5	3649.0	3662.1	3668.6	3668.6
12.5°	3681.6	3688.1	3675.1	3649.0	3642.5	3633.9	3633.9	3640.4	3657.7	3666.4	3668.6
15°	3694.6	3701.1	3681.6	3653.4	3646.9	3640.4	3638.2	3646.9	3666.4	3681.6	3683.7
17.5°	3718.4	3724.9	3694.6	3655.6	3646.9	3649.0	3646.9	3653.4	3683.7	3711.9	3711.9
20°	3740.1	3744.4	3703.3	3655.6	3646.9	3649.0	3646.9	3659.9	3698.9	3737.9	3740.1
22.5°	3746.6	3751.0	3711.9	3670.7	3664.2	3666.4	3664.2	3677.2	3714.1	3753.1	3753.1
25°	3748.8	3755.3	3724.9	3692.4	3703.3	3707.6	3703.3	3705.4	3733.6	3768.3	3766.1
27.5°	3781.3	3790.0	3761.8	3733.6	3740.1	3737.9	3744.4	3751.0	3772.6	3807.3	3798.7
30°	3848.5	3855.0	3831.2	3803.0	3798.7	3783.5	3803.0	3824.7	3848.5	3878.9	3872.4
32.5°	3959.1	3972.1	3941.8	3911.4	3891.9	3883.2	3898.4	3935.2	3967.8	4000.3	3987.3
35°	4143.4	4152.1	4123.9	4067.5	4032.8	4032.8	4045.8	4093.5	4145.6	4186.8	4171.6
37.5°	4403.6	4414.4	4364.5	4297.3	4245.3	4245.3	4262.6	4312.5	4390.6	4449.1	4427.4
40°	4720.1	4735.3	4672.4	4603.0	4553.2	4544.5	4566.2	4622.6	4696.3	4770.0	4746.1
42.5°	5101.7	5119.1	5036.7	4976.0	4936.9	4936.9	4947.8	4999.8	5067.0	5158.1	5151.6
45°	5589.6	5619.9	5507.2	5446.5	5409.6	5418.3	5424.8	5470.3	5531.0	5635.1	5630.8
47.5°	6170.6	6201.0	6081.7	6018.9	6012.4	6053.6	6027.5	6060.1	6092.6	6211.8	6177.1
50°	6829.8	6881.8	6799.4	6795.1	6808.1	6884.0	6823.3	6840.6	6803.8	6879.6	6834.1
52.5°	7636.3	7712.2	7697.0	7723.1	7868.3	8024.4	7885.7	7825.0	7686.2	7710.0	7629.8
55°	8614.2	8729.1	8750.8	8906.9	9236.4	9555.2	9260.3	9015.3	8720.4	8666.2	8581.7
57.5°	9726.5	9817.5	9921.6	10240.3	10856.1	11422.0	10856.1	10314.0	9850.0	9739.5	9661.4
60°	10923.3	11036.0	11135.8	11606.3	12521.2	13317.0	12503.9	11643.1	11029.5	10879.9	10749.8
62.5°	12209.0	12354.3	12423.7	12946.2	14013.0	14962.6	14028.1	12985.2	12304.4	12144.0	12013.9
65°	13442.7	13562.0	13640.0	14197.2	15216.3	16168.1	15285.7	14258.0	13557.6	13347.3	13243.2
67.5°	14017.3	14082.3	14273.1	14904.1	15979.5	17065.7	16161.6	14971.3	14188.6	13820.0	13824.3
70°	13176.0	13043.8	13503.4	14513.8	16070.6	17616.5	16278.7	14483.4	13525.1	12926.7	13069.8
72.5°	10181.8	9954.1	10752.0	12480.0	15029.8	17265.2	15133.9	12577.6	11248.5	10034.3	10335.7
75°	5539.7	5281.7	6383.1	8568.6	11985.7	14964.8	12261.1	8813.7	7107.3	5498.5	5856.3
77.5°	1563.3	1465.7	2354.6	4145.6	7209.2	10507.0	7486.7	4236.6	2792.6	1656.5	1840.8
80°	479.2	464.0	628.8	1248.9	3061.5	5032.3	2942.2	1264.0	800.1	505.2	533.4
82.5°	284.0	260.2	312.2	455.3	780.5	1580.6	758.9	474.8	381.6	255.8	277.5
85°	162.6	151.8	184.3	221.2	262.3	336.1	219.0	225.5	203.8	136.6	143.1
87.5°	67.2	60.7	71.5	69.4	60.7	78.1	58.5	69.4	82.4	54.2	49.9
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)