

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: P883755

Luminaire Tested: **NVN-SB4B-730-U-T1**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P883755  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SB4B-730-U-T1  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22223 lumens  
Efficiency: N/A  
Efficacy: 151.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G4

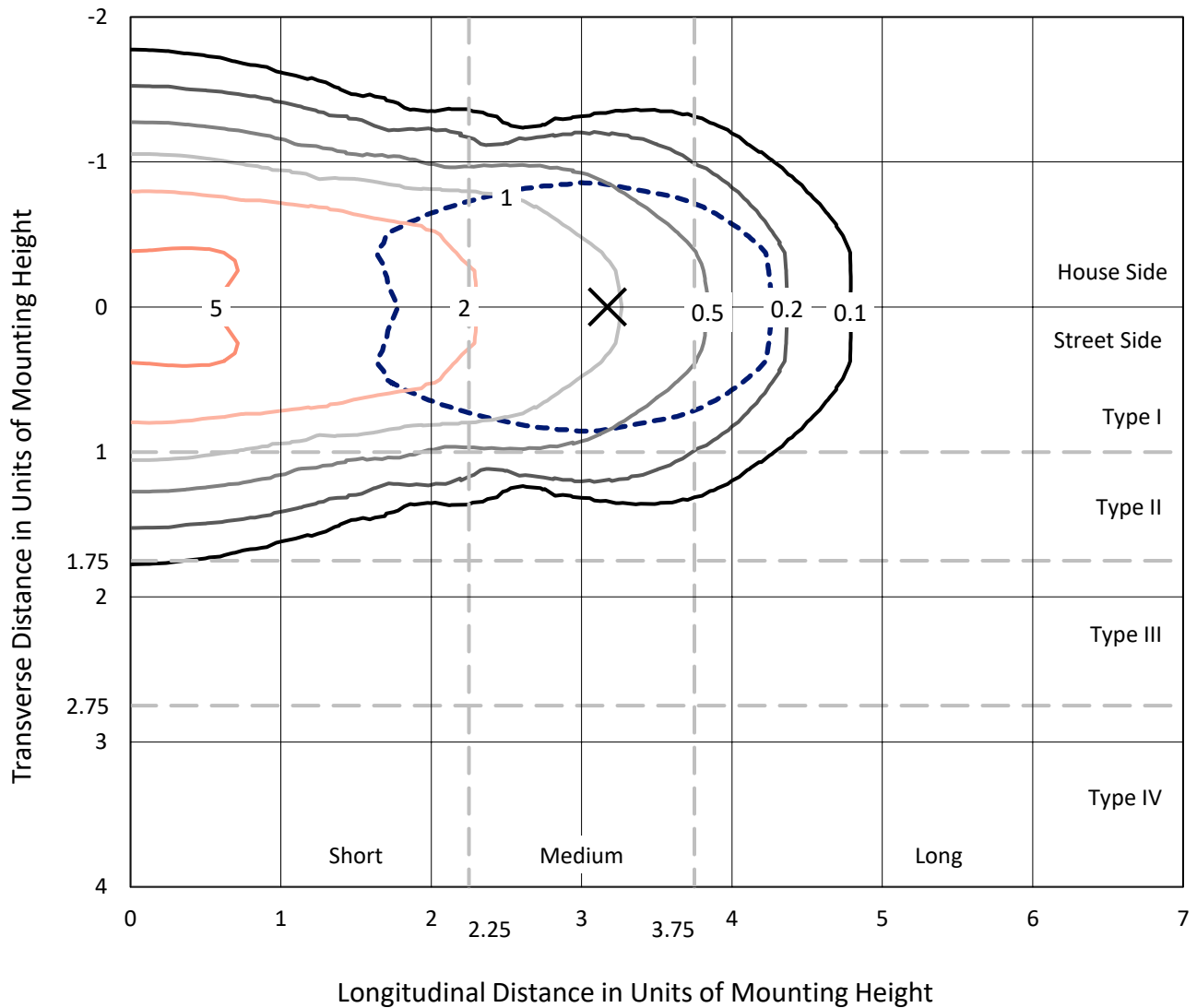
Input Watts (W): 147  
Input Voltage (V): 120.0  
Input Current (Ain): 1.255  
Voltage Rise (V): NR  
Power Factor: 0.988  
Total Harmonic Distortion (THDi): 13.593  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

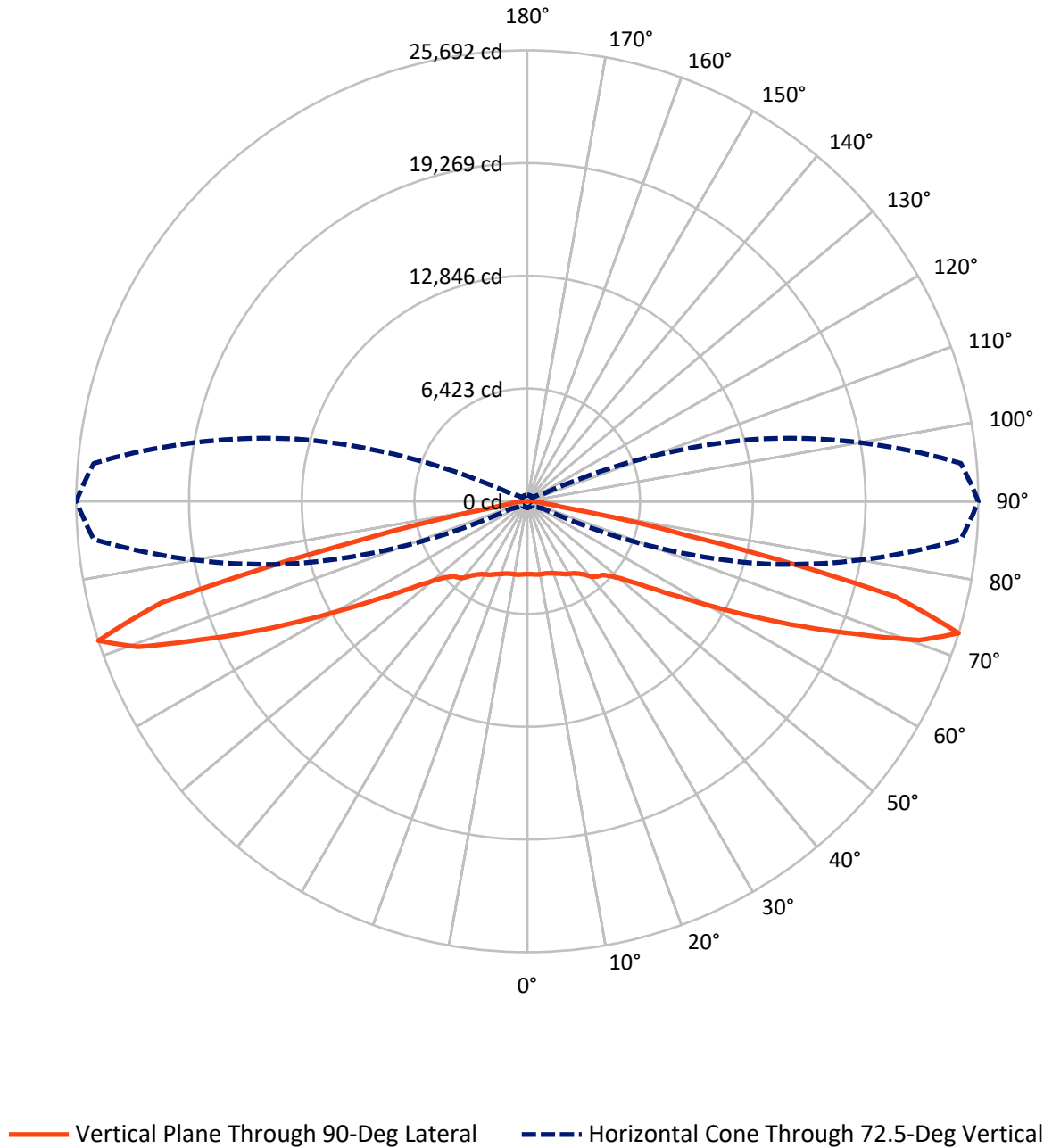
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11111.5	0.0	11111.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	11111.5	0.0	11111.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	22223.0	0.0	22223.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	402.6	1.8
10°-20°	1231.1	5.5
20°-30°	2052.8	9.2
30°-40°	2823.2	12.7
40°-50°	3447.9	15.5
50°-60°	3987.9	17.9
60°-70°	4754.9	21.4
70°-80°	3318.6	14.9
80°-90°	203.8	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°	22223.0	100.0
0°-180°	22223.0	100.0



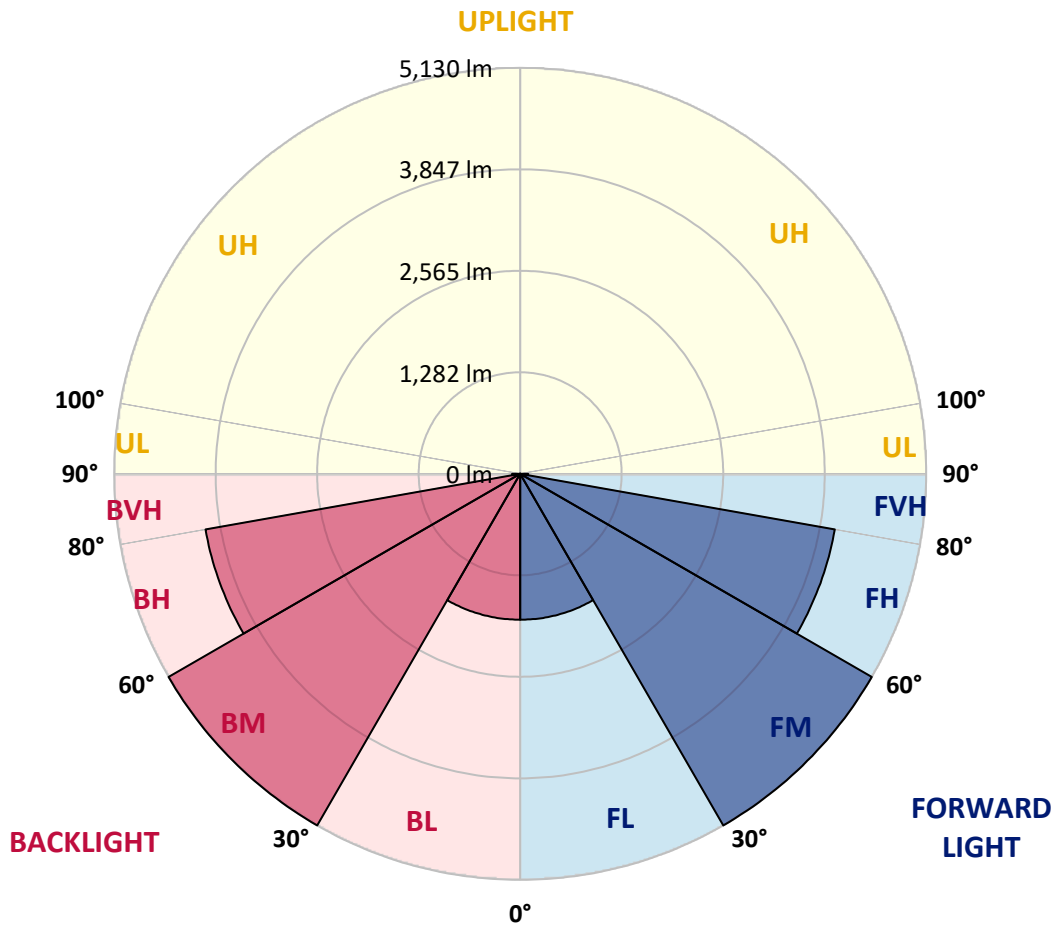
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1843.3	8.3			
FM (30°-60°)	5129.5	23.1			
FH (60°-80°)	4036.8	18.2			G2/5000
FVH (80°-90°)	101.9	0.5			G2/225
BL (0°-30°)	1843.3	8.3	B3/2500		
BM (30°-60°)	5129.5	23.1	B4/8500		
BH (60°-80°)	4036.8	18.2	B4/5000		G4/5000
BVH (80°-90°)	101.9	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**

Type I Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4152.6	4152.6	4152.6	4152.6	4152.6	4152.6	4152.6	4152.6	4152.6	4152.6	4152.6
2.5°	4156.1	4160.9	4160.9	4157.3	4165.6	4158.5	4158.5	4155.0	4158.5	4155.0	4155.0
5°	4177.4	4183.3	4185.7	4184.5	4195.1	4189.2	4189.2	4184.5	4185.7	4182.1	4182.1
7.5°	4217.6	4225.8	4230.6	4236.5	4251.8	4244.7	4240.0	4225.8	4219.9	4210.5	4210.5
10°	4230.6	4240.0	4255.4	4286.1	4321.5	4322.7	4308.5	4273.1	4245.9	4224.6	4221.1
12.5°	4190.4	4203.4	4235.3	4297.9	4377.0	4408.9	4386.5	4327.4	4274.3	4236.5	4230.6
15°	4139.6	4153.8	4202.2	4296.7	4413.6	4488.0	4485.7	4407.7	4322.7	4263.6	4254.2
17.5°	4060.5	4074.7	4144.3	4276.6	4442.0	4564.8	4597.9	4517.5	4398.3	4319.1	4306.1
20°	3917.6	3930.6	4027.4	4212.8	4451.4	4646.3	4732.5	4661.6	4512.8	4405.3	4385.3
22.5°	3732.1	3752.2	3865.6	4103.0	4429.0	4731.3	4886.0	4837.6	4646.3	4497.5	4470.3
25°	3533.7	3555.0	3687.3	3968.4	4371.1	4792.7	5067.9	5037.2	4797.5	4612.0	4574.2
27.5°	3362.5	3384.9	3529.0	3834.9	4281.3	4816.4	5247.4	5262.8	4980.5	4738.4	4698.3
30°	3227.8	3249.1	3402.6	3727.4	4165.6	4792.7	5404.5	5510.8	5167.1	4848.2	4790.4
32.5°	3080.2	3107.4	3269.2	3596.3	4028.6	4736.0	5541.5	5778.9	5383.3	4966.4	4893.1
35°	2893.6	2918.4	3088.5	3416.8	3849.1	4645.1	5656.1	6076.5	5692.7	5145.9	5064.4
37.5°	2666.8	2690.5	2859.3	3192.4	3670.7	4517.5	5743.5	6412.0	6061.2	5404.5	5295.9
40°	2438.9	2461.3	2619.6	2942.0	3457.0	4354.6	5774.2	6740.3	6484.0	5760.0	5644.3
42.5°	2229.8	2249.9	2395.2	2695.2	3217.2	4146.7	5734.0	7026.1	6863.1	6008.0	5859.2
45°	2037.3	2055.0	2183.8	2463.7	2968.0	3894.0	5613.6	7333.2	7314.3	6185.2	5984.4
47.5°	1817.6	1835.4	1968.8	2239.3	2718.8	3597.5	5409.2	7635.5	7941.4	6586.8	6355.3
50°	1549.5	1564.9	1701.9	1980.6	2460.1	3282.2	5125.8	7872.9	8732.7	7195.0	6904.5
52.5°	1231.8	1248.4	1381.8	1660.6	2153.1	2943.2	4752.6	8027.7	9646.9	8083.2	7725.3
55°	916.5	928.3	1044.1	1294.4	1772.8	2557.0	4284.9	8071.4	10683.9	9297.3	8849.7
57.5°	664.9	672.0	746.4	933.0	1344.0	2073.9	3716.8	7958.0	11918.1	10853.9	10290.6
60°	538.6	540.9	563.4	646.0	934.2	1528.3	3030.6	7568.2	13257.4	12860.5	12150.7
62.5°	489.0	489.0	494.9	517.3	631.9	1008.6	2200.3	6760.4	14693.6	15396.3	14445.5
65°	454.7	454.7	457.1	467.7	498.4	642.5	1388.9	5444.7	15904.1	18366.6	17164.3
67.5°	424.0	425.2	424.0	427.5	445.3	474.8	805.5	3760.5	16556.1	21444.5	20146.5
70°	392.1	394.5	388.6	388.6	402.7	403.9	504.3	2062.1	16015.2	24023.9	23682.6
72.5°	354.3	357.9	348.4	346.1	356.7	352.0	379.1	989.7	13749.9	24794.0	25691.6
75°	321.2	326.0	304.7	298.8	298.8	295.3	308.3	507.9	8924.1	20225.6	21633.5
77.5°	291.7	301.2	266.9	248.0	243.3	232.7	251.6	310.6	3903.4	9495.7	9298.5
80°	240.9	253.9	219.7	197.2	189.0	177.2	198.4	217.3	1161.0	2205.0	2111.7
82.5°	179.5	185.4	155.9	140.5	133.5	125.2	148.8	151.2	377.9	780.7	882.3
85°	114.6	116.9	95.7	82.7	79.1	75.6	94.5	82.7	144.1	574.0	833.8
87.5°	40.2	46.1	36.6	33.1	35.4	29.5	43.7	24.8	40.2	405.1	501.9
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)