

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: P883972

Luminaire Tested: **NVN-SB4C-827-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883972
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-SB4C-827-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24944 lumens
Efficiency: N/A
Efficacy: 124.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

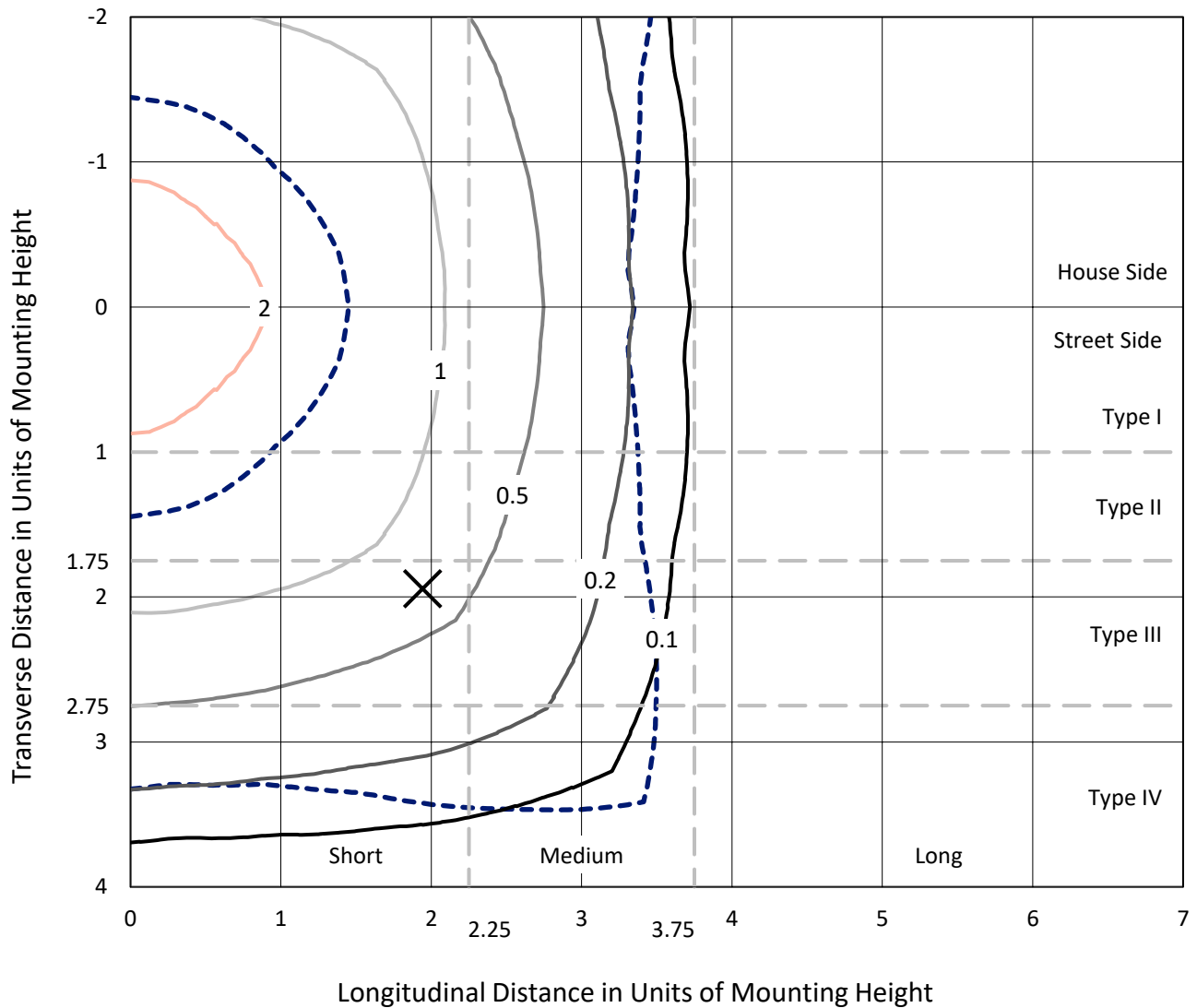
Input Watts (W): 200.7
Input Voltage (V): 120.0
Input Current (Ain): 1.714
Voltage Rise (V): NR
Power Factor: 0.994
Total Harmonic Distortion (THDi): 9.472
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

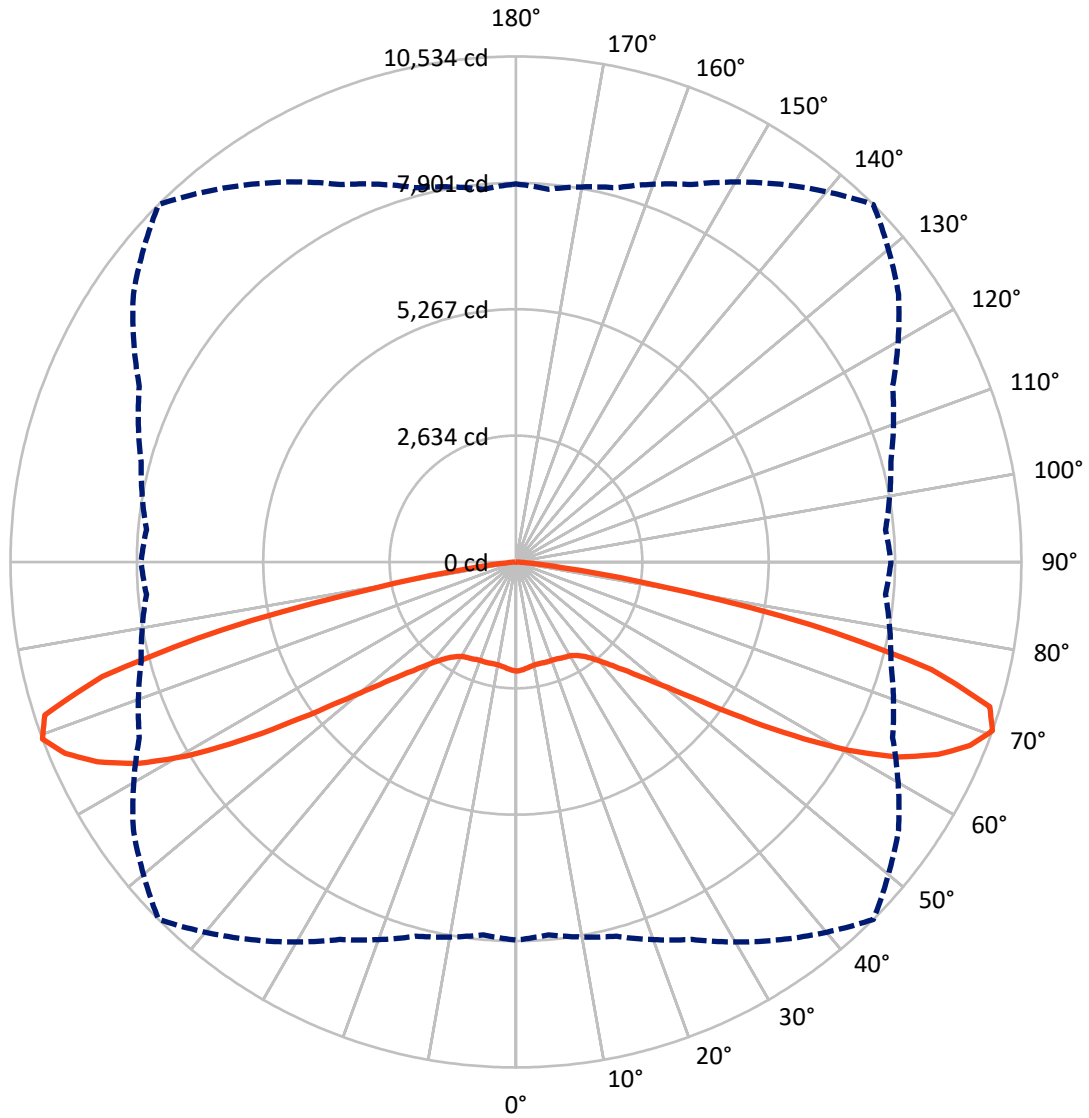
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 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	12472.0	0.0	12472.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12472.0	0.0	12472.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	24944.0	0.0	24944.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.7	0.8
10°-20°	621.5	2.5
20°-30°	1034.3	4.1
30°-40°	1564.1	6.3
40°-50°	2599.2	10.4
50°-60°	4904.6	19.7
60°-70°	8281.6	33.2
70°-80°	5441.9	21.8
80°-90°	285.1	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°	24944.0	100.0
0°-180°	24944.0	100.0



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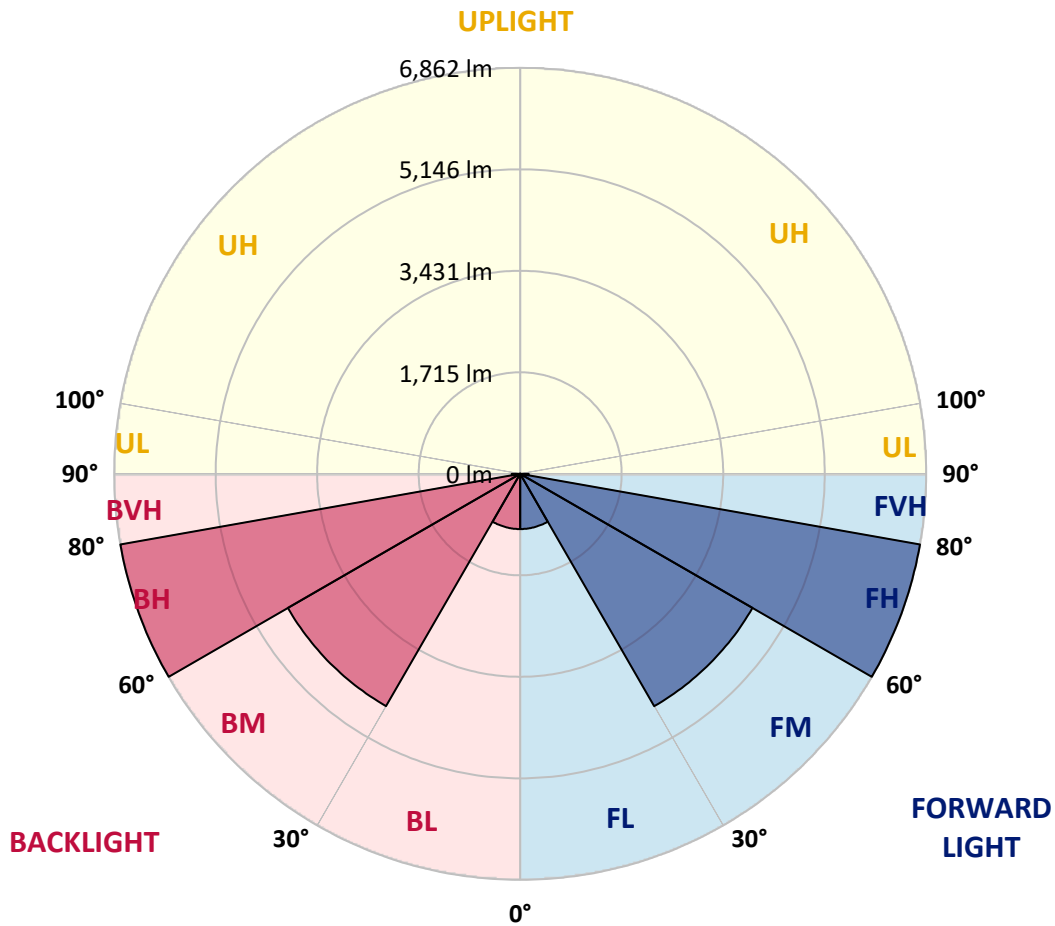
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	933.7	3.7			
FM (30°-60°)	4534.0	18.2			
FH (60°-80°)	6861.8	27.5			G3/7500
FVH (80°-90°)	142.6	0.6			G2/225
BL (0°-30°)	933.7	3.7	B2/1000		
BM (30°-60°)	4534.0	18.2	B3/5000		
BH (60°-80°)	6861.8	27.5	B5		G3/7500
BVH (80°-90°)	142.6	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-G3

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2275.4	2275.4	2275.4	2275.4	2275.4	2275.4	2275.4	2275.4	2275.4	2275.4	2275.4
2.5°	2261.1	2267.6	2265.0	2259.8	2259.8	2255.9	2259.8	2262.4	2266.3	2268.9	2267.6
5°	2231.3	2236.5	2235.2	2231.3	2232.6	2228.7	2231.3	2235.2	2237.8	2239.1	2239.1
7.5°	2205.4	2210.6	2208.0	2201.5	2201.5	2197.6	2198.9	2202.8	2206.7	2208.0	2208.0
10°	2198.9	2204.1	2196.3	2185.9	2182.0	2176.9	2178.2	2182.0	2189.8	2193.7	2193.7
12.5°	2201.5	2205.4	2197.6	2182.0	2178.2	2173.0	2173.0	2176.9	2187.2	2192.4	2193.7
15°	2209.3	2213.2	2201.5	2184.6	2180.7	2176.9	2175.6	2180.7	2192.4	2201.5	2202.8
17.5°	2223.5	2227.4	2209.3	2185.9	2180.7	2182.0	2180.7	2184.6	2202.8	2219.6	2219.6
20°	2236.5	2239.1	2214.5	2185.9	2180.7	2182.0	2180.7	2188.5	2211.9	2235.2	2236.5
22.5°	2240.4	2243.0	2219.6	2195.0	2191.1	2192.4	2191.1	2198.9	2220.9	2244.3	2244.3
25°	2241.7	2245.6	2227.4	2208.0	2214.5	2217.1	2214.5	2215.8	2232.6	2253.4	2252.1
27.5°	2261.1	2266.3	2249.5	2232.6	2236.5	2235.2	2239.1	2243.0	2255.9	2276.7	2271.5
30°	2301.3	2305.2	2291.0	2274.1	2271.5	2262.4	2274.1	2287.1	2301.3	2319.5	2315.6
32.5°	2367.4	2375.2	2357.1	2338.9	2327.3	2322.1	2331.1	2353.2	2372.6	2392.1	2384.3
35°	2477.7	2482.8	2466.0	2432.3	2411.5	2411.5	2419.3	2447.8	2478.9	2503.6	2494.5
37.5°	2633.2	2639.7	2609.9	2569.7	2538.6	2538.6	2549.0	2578.8	2625.5	2660.5	2647.5
40°	2822.5	2831.6	2794.0	2752.5	2722.7	2717.5	2730.5	2764.2	2808.3	2852.3	2838.1
42.5°	3050.7	3061.1	3011.8	2975.5	2952.2	2952.2	2958.7	2989.8	3030.0	3084.4	3080.5
45°	3342.4	3360.6	3293.2	3256.9	3234.8	3240.0	3243.9	3271.1	3307.4	3369.7	3367.1
47.5°	3689.9	3708.1	3636.7	3599.1	3595.3	3619.9	3604.3	3623.8	3643.2	3714.5	3693.8
50°	4084.0	4115.2	4065.9	4063.3	4071.1	4116.5	4080.2	4090.5	4068.5	4113.9	4086.6
52.5°	4566.3	4611.7	4602.7	4618.2	4705.1	4798.4	4715.4	4679.1	4596.2	4610.4	4562.5
55°	5151.1	5219.8	5232.8	5326.1	5523.2	5713.8	5537.4	5390.9	5214.6	5182.2	5131.6
57.5°	5816.2	5870.6	5932.9	6123.5	6491.7	6830.1	6491.7	6167.6	5890.1	5824.0	5777.3
60°	6531.9	6599.3	6658.9	6940.3	7487.4	7963.2	7477.0	6962.3	6595.4	6505.9	6428.2
62.5°	7300.7	7387.6	7429.1	7741.5	8379.4	8947.3	8388.5	7764.9	7357.8	7261.8	7184.0
65°	8038.4	8109.7	8156.4	8489.6	9099.0	9668.2	9140.5	8525.9	8107.1	7981.4	7919.2
67.5°	8382.0	8420.9	8535.0	8912.3	9555.4	10204.9	9664.3	8952.5	8484.4	8264.0	8266.6
70°	7879.0	7799.9	8074.7	8678.9	9609.8	10534.2	9734.3	8660.8	8087.7	7729.9	7815.4
72.5°	6088.5	5952.3	6429.4	7462.8	8987.5	10324.2	9049.7	7521.1	6726.4	6000.3	6180.5
75°	3312.6	3158.3	3817.0	5123.9	7167.2	8948.6	7331.8	5270.4	4250.0	3288.0	3501.9
77.5°	934.8	876.4	1408.0	2478.9	4310.9	6282.9	4476.9	2533.4	1669.9	990.5	1100.7
80°	286.5	277.5	376.0	746.8	1830.7	3009.2	1759.4	755.9	478.4	302.1	318.9
82.5°	169.8	155.6	186.7	272.3	466.7	945.2	453.8	283.9	228.2	153.0	166.0
85°	97.2	90.8	110.2	132.2	156.9	201.0	130.9	134.8	121.9	81.7	85.6
87.5°	40.2	36.3	42.8	41.5	36.3	46.7	35.0	41.5	49.3	32.4	29.8
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)