

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: LUMARK

Report Number: P963931

Luminaire Tested: **NAV-SB3B-722-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963931
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: LUMARK
Catalog Number: NAV-SB3B-722-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14990.6 lumens
Efficiency: N/A
Efficacy: 137.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

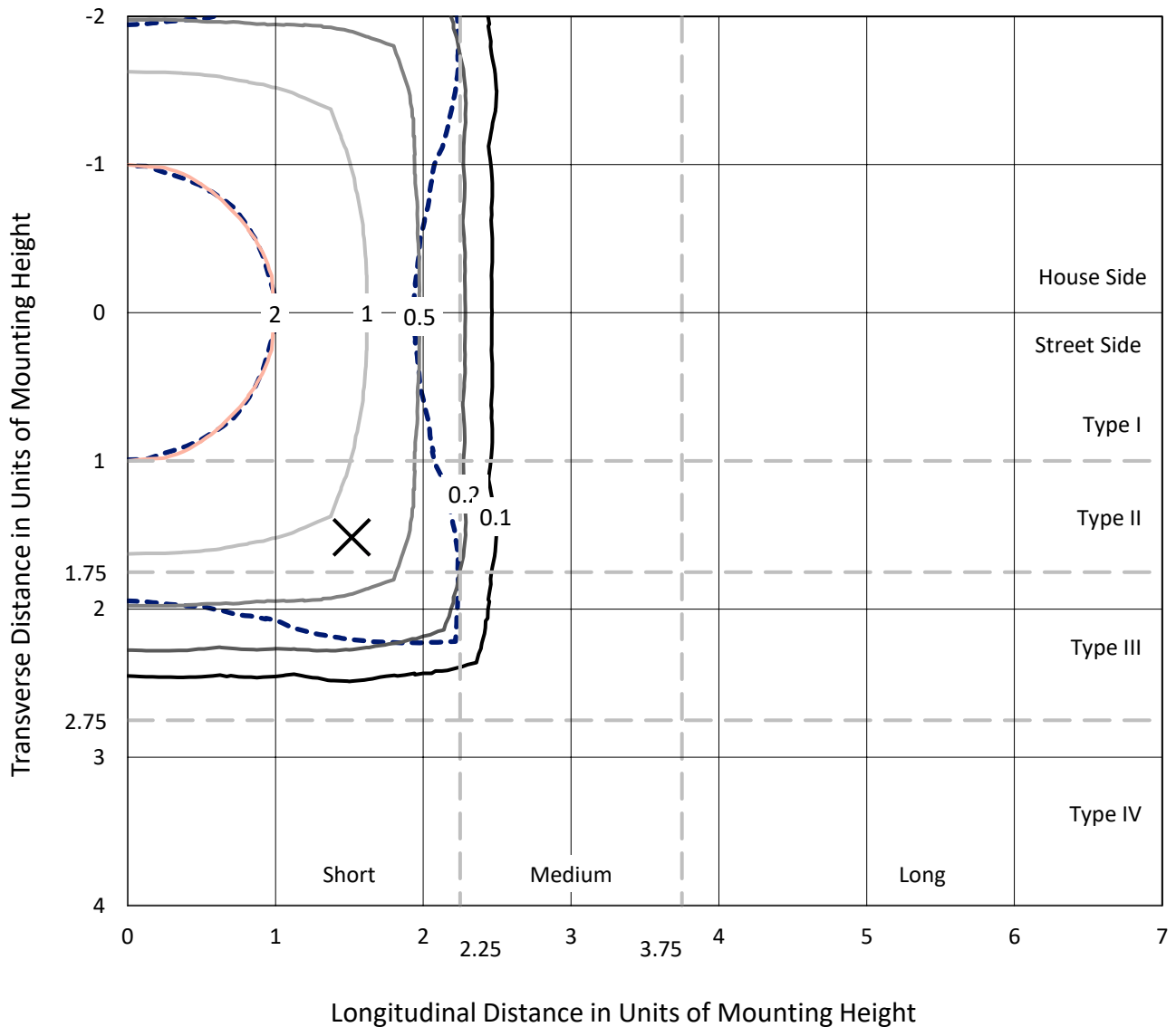
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

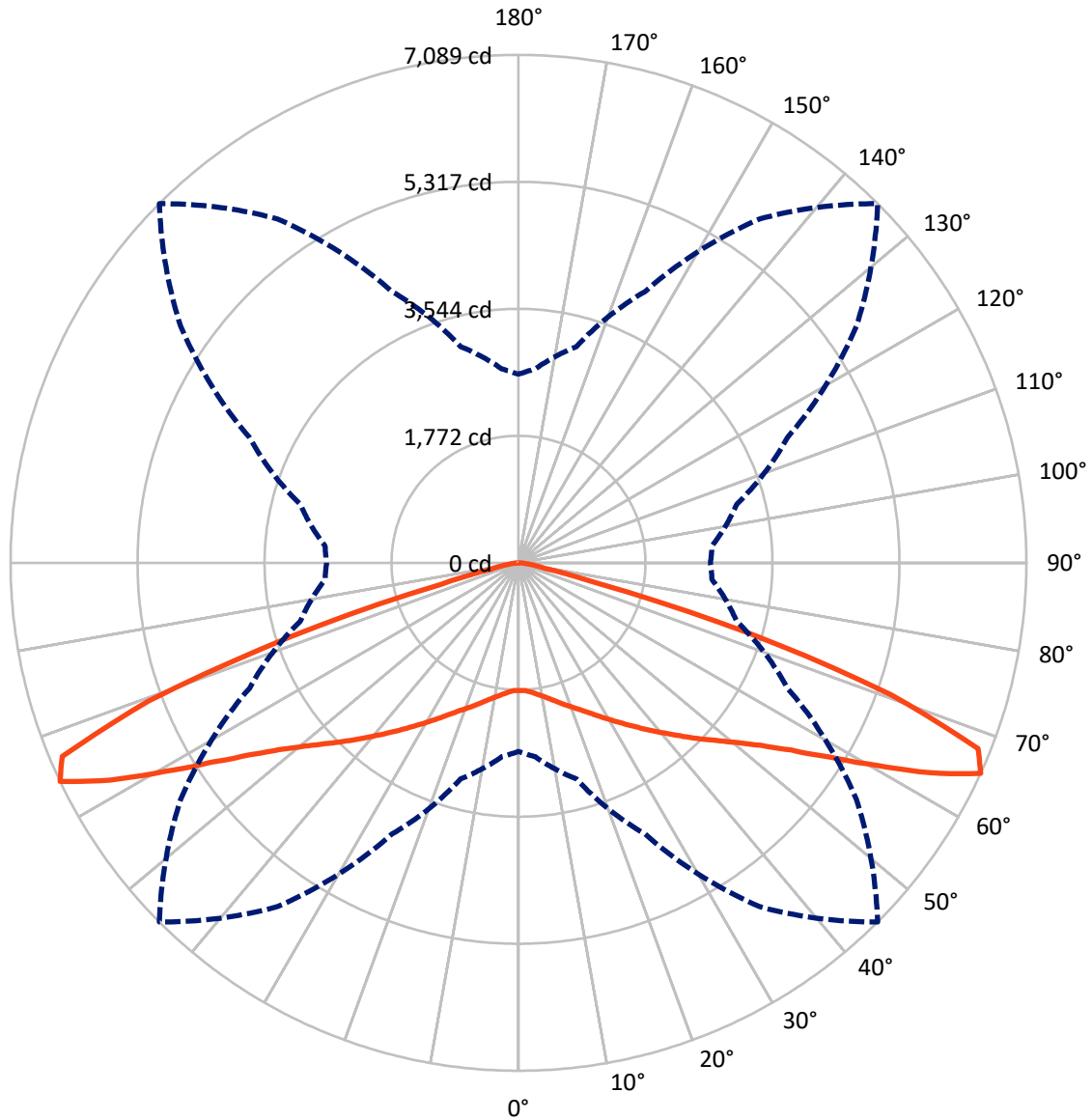
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type V - Short - N/A

REPORT NUMBER: P963931
CATALOG NUMBER: NAV-SB3B-722-U-5NQ

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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 CATALOG NUMBER: NAV-SB3B-722-U-5NQ

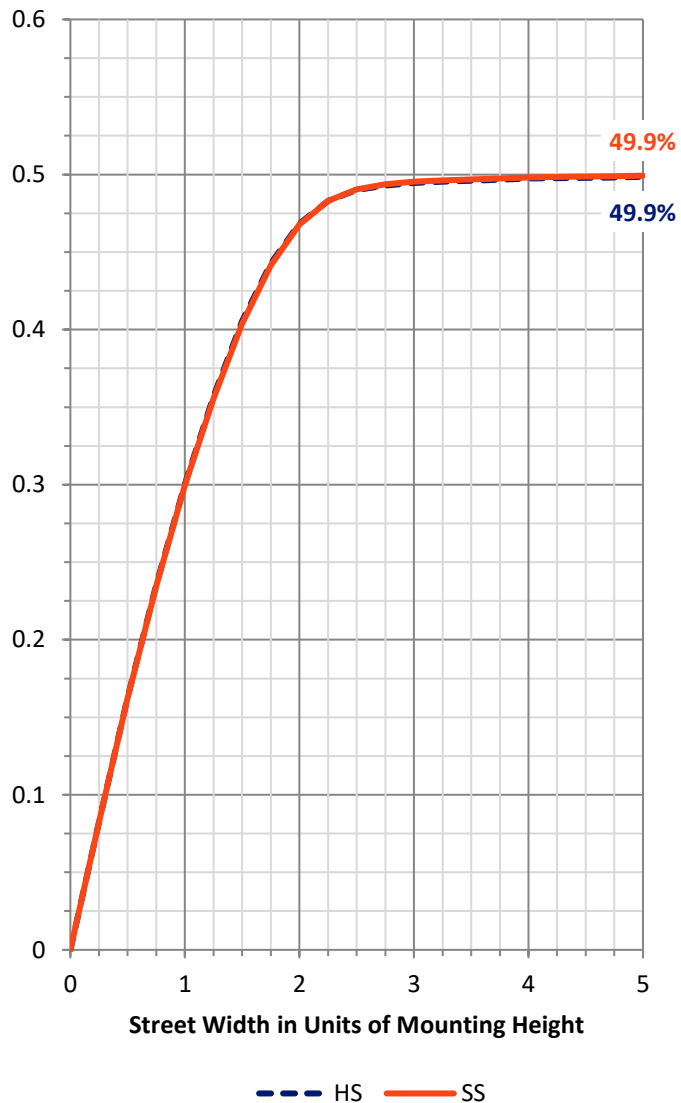
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7495.3	0.0	7495.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7495.3	0.0	7495.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	14990.6	0.0	14990.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.1	1.2
10°-20°	574.5	3.8
20°-30°	1084.8	7.2
30°-40°	1776.3	11.8
40°-50°	2754.1	18.4
50°-60°	4068.4	27.1
60°-70°	3872.7	25.8
70°-80°	624.9	4.2
80°-90°	58.9	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°	14990.6	100.0
0°-180°	14990.6	100.0

Coefficient of Utilization



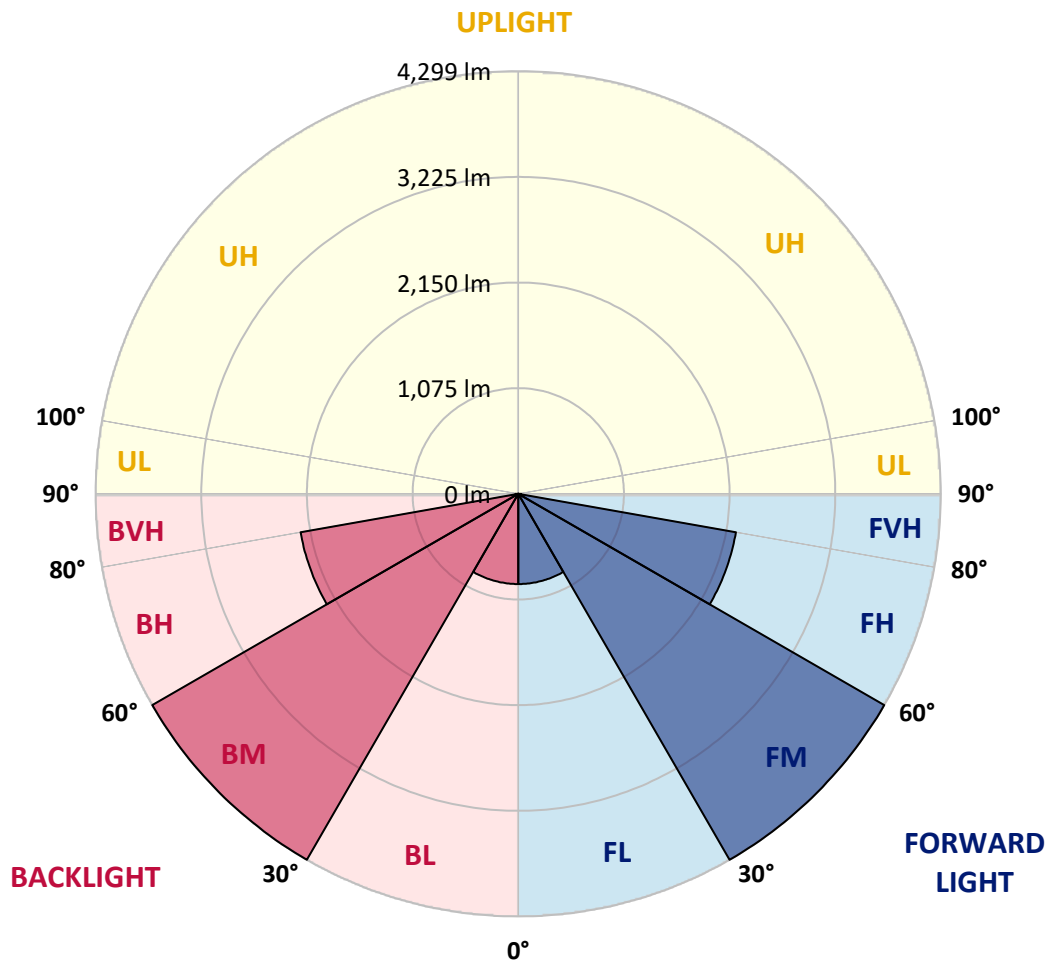
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 CATALOG NUMBER: NAV-SB3B-722-U-5NQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	917.7	6.1			
FM (30°-60°)	4299.4	28.7			
FH (60°-80°)	2248.8	15.0			G2/5000
FVH (80°-90°)	29.5	0.2			G1/100
BL (0°-30°)	917.7	6.1	B2/1000		
BM (30°-60°)	4299.4	28.7	B3/5000		
BH (60°-80°)	2248.8	15.0	B3/2500		G2/5000
BVH (80°-90°)	29.5	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1784.0	1784.0	1784.0	1784.0	1784.0	1784.0	1784.0	1784.0	1784.0	1784.0	1784.0
2.5°	1796.1	1790.1	1794.6	1790.8	1787.8	1784.8	1786.3	1791.6	1793.9	1794.6	1794.6
5°	1820.1	1814.9	1817.1	1817.1	1811.9	1810.4	1811.1	1814.9	1819.4	1819.4	1819.4
7.5°	1859.2	1854.0	1859.2	1856.3	1851.8	1850.2	1849.5	1852.5	1859.2	1859.2	1857.0
10°	1906.6	1900.7	1903.6	1902.1	1896.9	1894.6	1893.9	1898.4	1904.3	1903.6	1902.1
12.5°	1958.6	1951.8	1955.5	1951.0	1949.5	1947.3	1947.3	1946.5	1950.3	1947.3	1948.7
15°	2016.5	2012.0	2013.4	2010.4	2012.7	2011.2	2005.2	2002.1	2003.7	1999.2	1999.9
17.5°	2084.8	2074.4	2079.6	2078.1	2078.1	2081.2	2071.3	2067.6	2070.6	2066.1	2069.9
20°	2163.9	2153.3	2155.6	2152.6	2148.8	2151.8	2139.8	2142.8	2145.0	2142.0	2148.8
22.5°	2250.4	2236.9	2236.0	2237.6	2229.3	2230.1	2221.8	2229.3	2233.8	2225.5	2233.8
25°	2339.0	2324.8	2334.5	2330.8	2320.3	2322.5	2316.5	2324.1	2327.8	2317.3	2329.3
27.5°	2433.1	2423.3	2432.3	2434.6	2421.9	2430.9	2421.9	2428.6	2432.3	2416.5	2428.6
30°	2542.9	2533.2	2541.4	2547.4	2532.4	2546.7	2539.1	2543.6	2544.5	2525.6	2536.9
32.5°	2662.5	2647.5	2668.5	2671.6	2655.0	2672.3	2662.5	2668.5	2672.3	2646.8	2664.0
35°	2808.4	2789.6	2813.7	2809.9	2795.7	2809.9	2800.9	2809.9	2819.0	2788.1	2807.0
37.5°	2965.6	2946.1	2971.7	2964.9	2951.3	2961.1	2955.8	2961.8	2976.2	2943.1	2963.4
40°	3138.7	3114.6	3149.1	3137.1	3124.3	3122.8	3125.8	3129.6	3148.4	3111.5	3123.6
42.5°	3323.7	3298.0	3349.9	3331.1	3313.1	3301.1	3310.9	3318.3	3336.4	3295.1	3316.9
45°	3535.0	3505.6	3573.4	3550.8	3522.2	3497.4	3513.2	3524.5	3550.8	3501.1	3526.7
47.5°	3768.1	3735.0	3807.3	3800.5	3753.9	3699.7	3735.8	3768.1	3787.7	3727.5	3747.8
50°	3996.1	3970.4	4065.3	4073.5	4016.4	3940.4	3990.7	4039.6	4045.0	3965.9	3975.8
52.5°	4209.7	4184.0	4321.7	4373.6	4322.4	4232.2	4285.6	4335.2	4295.4	4193.1	4196.0
55°	4380.3	4359.3	4534.5	4668.5	4685.7	4611.3	4642.8	4641.3	4510.5	4353.3	4358.5
57.5°	4421.7	4418.7	4639.9	4923.4	5103.9	5112.9	5050.5	4891.1	4609.0	4397.7	4384.1
60°	4233.7	4252.5	4556.3	5056.5	5537.9	5738.0	5468.0	5012.9	4497.0	4203.6	4169.0
62.5°	3671.1	3720.7	4087.0	4894.1	5888.3	6457.0	5802.6	4827.9	4036.7	3653.8	3631.3
65°	2631.0	2717.4	3122.0	4176.6	5856.7	7088.8	5754.5	4142.6	3152.2	2710.6	2678.3
67.5°	1193.6	1281.7	1625.3	2859.5	5091.1	6917.3	5079.1	2889.7	1706.5	1286.2	1267.3
70°	432.4	447.5	558.1	1144.7	3253.7	5511.5	3392.9	1153.0	593.5	476.8	470.8
72.5°	261.8	264.0	287.3	409.9	1130.5	3346.2	1178.5	423.4	293.4	260.2	264.8
75°	166.3	164.7	204.6	250.4	400.9	1128.9	420.5	250.4	203.9	185.7	187.3
77.5°	119.6	123.3	146.7	187.3	252.7	382.8	248.2	179.0	146.7	120.3	122.6
80°	89.5	91.7	106.8	146.0	177.5	238.4	158.0	132.3	110.6	75.2	77.5
82.5°	64.7	64.7	69.9	106.1	108.3	128.6	85.8	93.3	73.0	53.4	53.4
85°	38.3	37.6	43.7	63.1	56.4	47.4	39.2	57.2	45.9	33.1	32.4
87.5°	13.5	14.2	13.5	18.0	15.1	12.8	12.0	15.8	12.8	11.3	10.6
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)