

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: P962350

Luminaire Tested: **NAV-SB2C-722-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962350
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-SB2C-722-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13289.1 lumens
Efficiency: N/A
Efficacy: 131.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

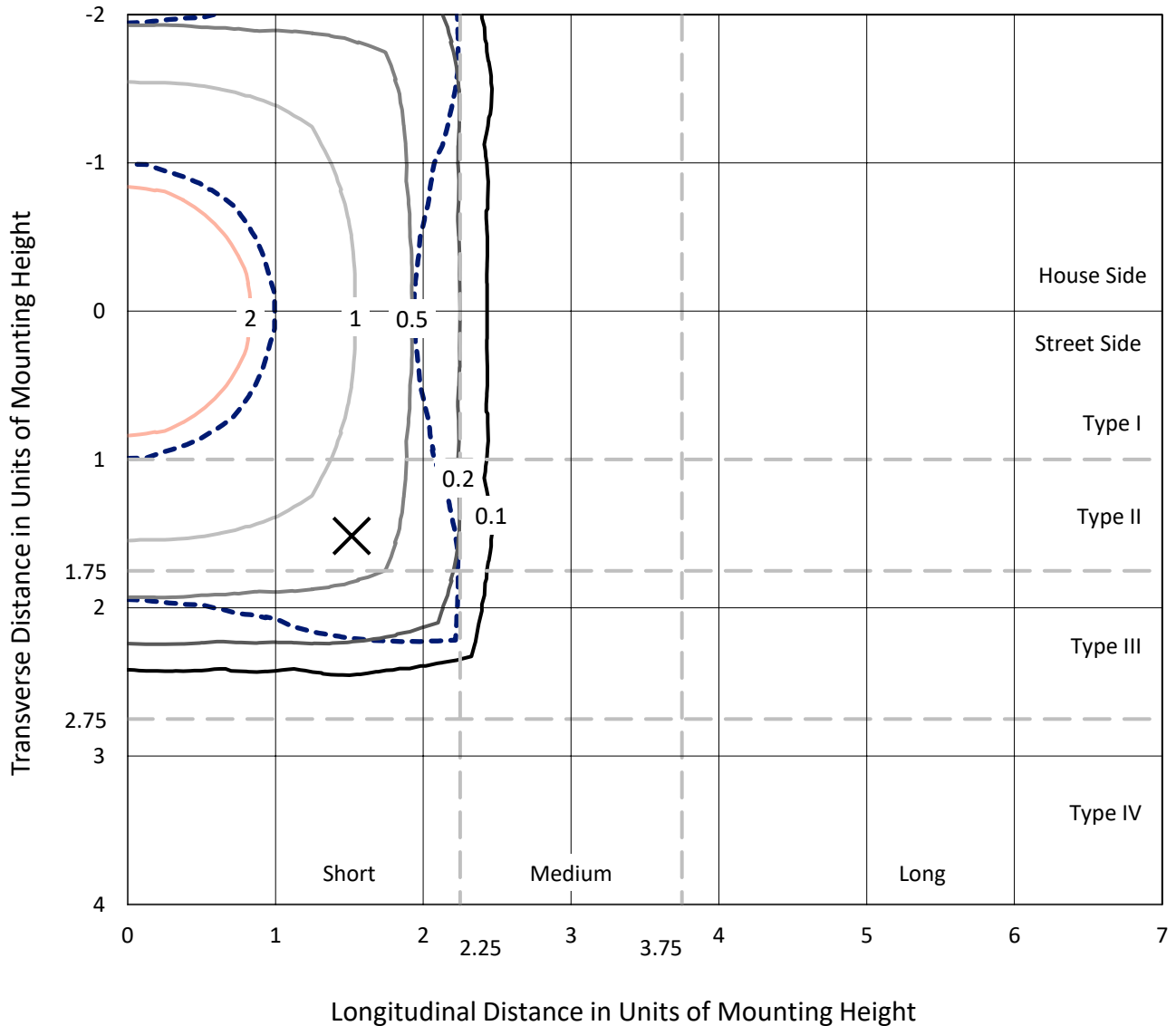
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

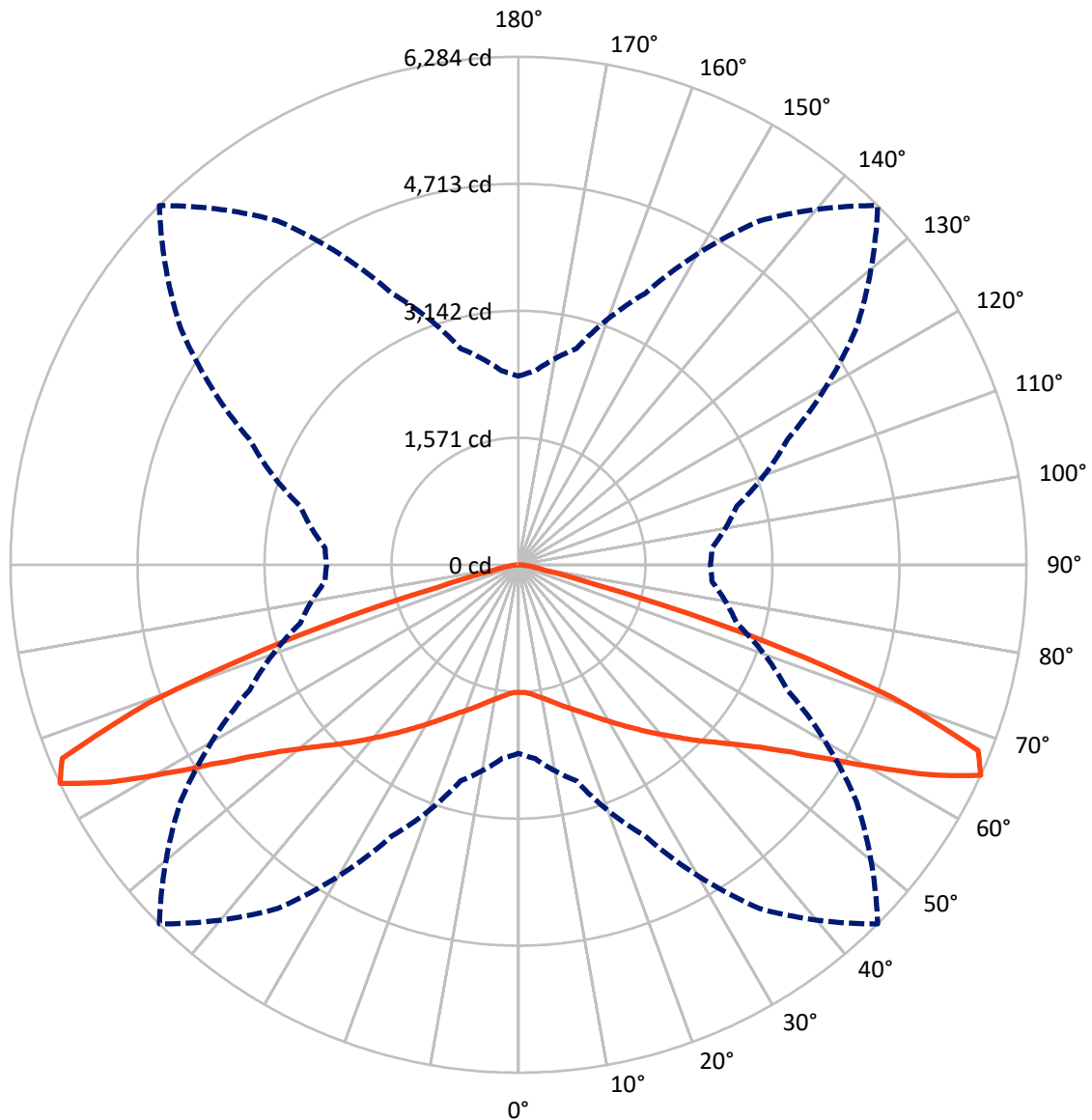
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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

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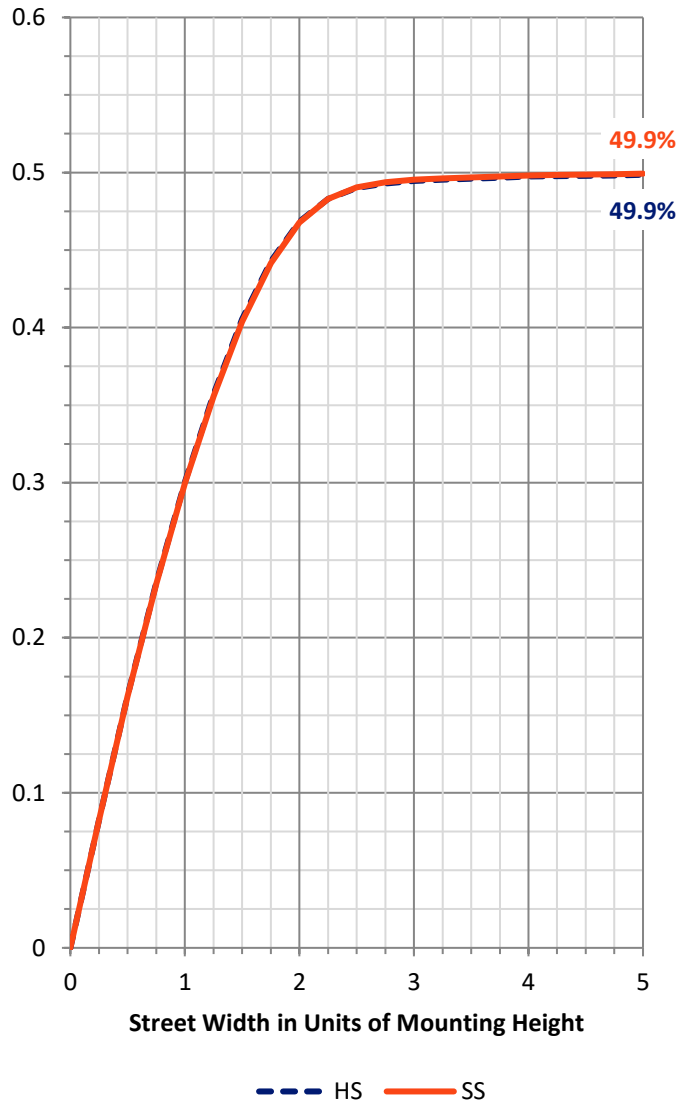
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6644.6	0.0	6644.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6644.6	0.0	6644.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	13289.1	0.0	13289.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.1	1.2
10°-20°	509.3	3.8
20°-30°	961.6	7.2
30°-40°	1574.6	11.8
40°-50°	2441.5	18.4
50°-60°	3606.6	27.1
60°-70°	3433.2	25.8
70°-80°	554.0	4.2
80°-90°	52.2	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°	13289.1	100.0
0°-180°	13289.1	100.0

Coefficient of Utilization



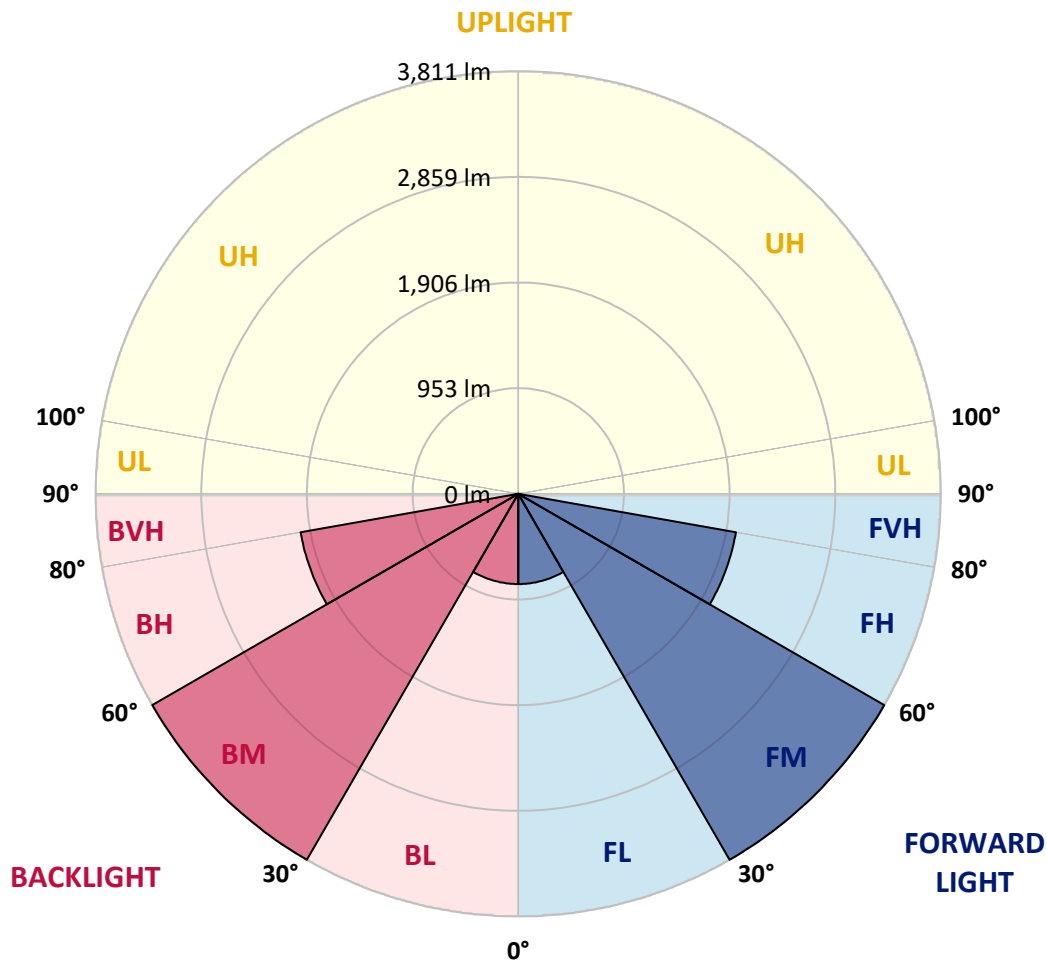
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	813.5	6.1			
FM (30°-60°)	3811.4	28.7			
FH (60°-80°)	1993.6	15.0			G2/5000
FVH (80°-90°)	26.1	0.2			G1/100
BL (0°-30°)	813.5	6.1	B2/1000		
BM (30°-60°)	3811.4	28.7	B3/5000		
BH (60°-80°)	1993.6	15.0	B3/2500		G2/5000
BVH (80°-90°)	26.1	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°	1581.6	1581.6	1581.6	1581.6	1581.6	1581.6	1581.6	1581.6	1581.6	1581.6	1581.6
2.5°	1592.2	1586.9	1590.9	1587.5	1584.9	1582.2	1583.5	1588.2	1590.2	1590.9	1590.9
5°	1613.6	1608.8	1610.9	1610.9	1606.2	1604.8	1605.6	1608.8	1612.8	1612.8	1612.8
7.5°	1648.2	1643.6	1648.2	1645.5	1641.5	1640.2	1639.6	1642.3	1648.2	1648.2	1646.3
10°	1690.2	1684.9	1687.6	1686.2	1681.5	1679.6	1678.8	1682.8	1688.2	1687.6	1686.2
12.5°	1736.2	1730.2	1733.6	1729.6	1728.3	1726.2	1726.2	1725.6	1728.9	1726.2	1727.5
15°	1787.6	1783.6	1784.9	1782.3	1784.2	1782.9	1777.6	1774.9	1776.2	1772.2	1772.9
17.5°	1848.3	1839.0	1843.6	1842.2	1842.2	1844.9	1836.3	1832.9	1835.6	1831.6	1835.0
20°	1918.3	1909.0	1910.9	1908.2	1905.0	1907.6	1896.9	1899.5	1901.6	1898.9	1905.0
22.5°	1995.0	1983.0	1982.2	1983.6	1976.3	1976.9	1969.6	1976.3	1980.3	1972.9	1980.3
25°	2073.6	2061.0	2069.6	2066.3	2057.0	2058.9	2053.6	2060.2	2063.6	2054.3	2065.0
27.5°	2156.9	2148.3	2156.3	2158.2	2147.0	2155.0	2147.0	2152.9	2156.3	2142.2	2152.9
30°	2254.3	2245.7	2253.0	2258.3	2245.0	2257.7	2251.0	2255.0	2255.6	2238.9	2249.0
32.5°	2360.3	2346.9	2365.6	2368.3	2353.6	2369.0	2360.3	2365.6	2369.0	2346.3	2361.6
35°	2489.6	2473.0	2494.3	2491.0	2478.3	2491.0	2483.0	2491.0	2499.0	2471.7	2488.3
37.5°	2629.0	2611.7	2634.4	2628.3	2616.3	2625.0	2620.3	2625.6	2638.4	2609.0	2627.0
40°	2782.4	2761.0	2791.7	2781.0	2769.7	2768.3	2771.0	2774.4	2791.1	2758.4	2769.0
42.5°	2946.4	2923.7	2969.7	2953.0	2937.0	2926.4	2935.1	2941.7	2957.7	2921.0	2940.4
45°	3133.7	3107.7	3167.8	3147.8	3122.4	3100.4	3114.4	3124.4	3147.8	3103.7	3126.5
47.5°	3340.5	3311.1	3375.1	3369.1	3327.8	3279.8	3311.8	3340.5	3357.8	3304.4	3322.4
50°	3542.5	3519.7	3603.8	3611.2	3560.4	3493.1	3537.8	3581.1	3585.8	3515.7	3524.5
52.5°	3731.8	3709.2	3831.1	3877.2	3831.9	3751.8	3799.2	3843.1	3807.9	3717.2	3719.8
55°	3883.2	3864.5	4019.8	4138.5	4153.9	4087.9	4115.9	4114.6	3998.5	3859.1	3863.8
57.5°	3919.8	3917.1	4113.2	4364.6	4524.6	4532.5	4477.2	4335.9	4085.9	3898.5	3886.5
60°	3753.1	3769.8	4039.2	4482.6	4909.3	5086.7	4847.3	4443.9	3986.5	3726.5	3695.8
62.5°	3254.4	3298.4	3623.2	4338.5	5220.0	5724.1	5144.0	4279.9	3578.5	3239.1	3219.1
65°	2332.3	2409.0	2767.7	3702.5	5192.0	6284.2	5101.3	3672.5	2794.4	2403.0	2374.3
67.5°	1058.1	1136.1	1440.8	2535.0	4513.3	6132.2	4502.6	2561.7	1512.9	1140.1	1123.5
70°	383.3	396.7	494.8	1014.7	2884.4	4886.0	3007.8	1022.1	526.0	422.7	417.4
72.5°	232.1	234.0	254.7	363.4	1002.1	2966.4	1044.8	375.4	260.0	230.7	234.7
75°	147.4	146.1	181.3	222.0	355.4	1000.8	372.7	222.0	180.7	164.7	166.0
77.5°	106.0	109.4	130.0	166.0	224.1	339.4	220.1	158.7	130.0	106.7	108.6
80°	79.3	81.4	94.7	129.4	157.3	211.4	140.0	117.4	98.0	66.6	68.7
82.5°	57.3	57.3	62.0	94.0	96.0	114.0	76.1	82.7	64.7	47.4	47.4
85°	34.0	33.3	38.6	56.0	50.0	42.0	34.6	50.6	40.7	29.3	28.7
87.5°	12.0	12.7	12.0	16.0	13.3	11.4	10.7	14.0	11.4	10.0	9.3
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)