

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: P961885

Luminaire Tested: **NAV-SB2B-730-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961885
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-SB2B-730-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12095 lumens
Efficiency: N/A
Efficacy: 163.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

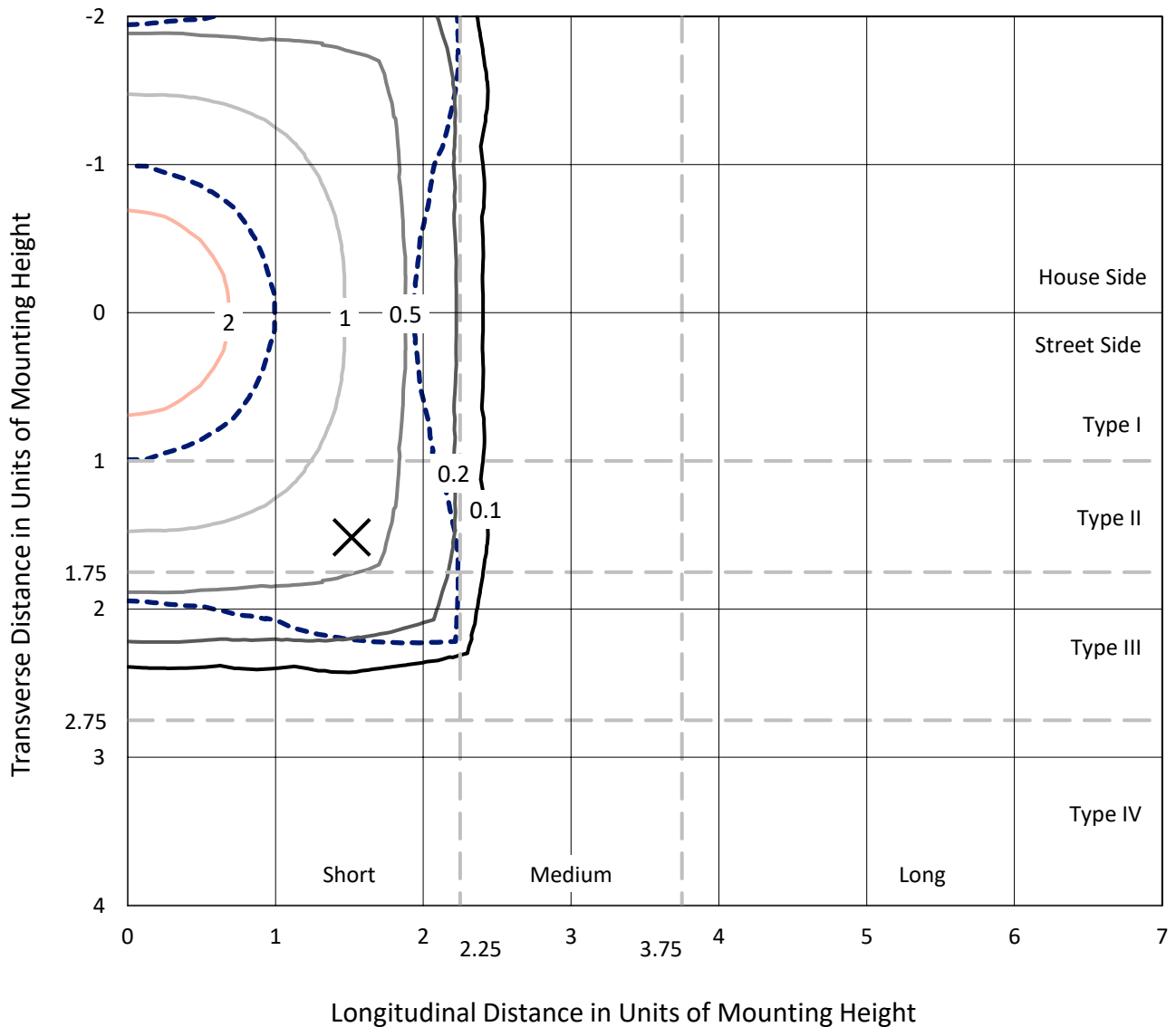
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

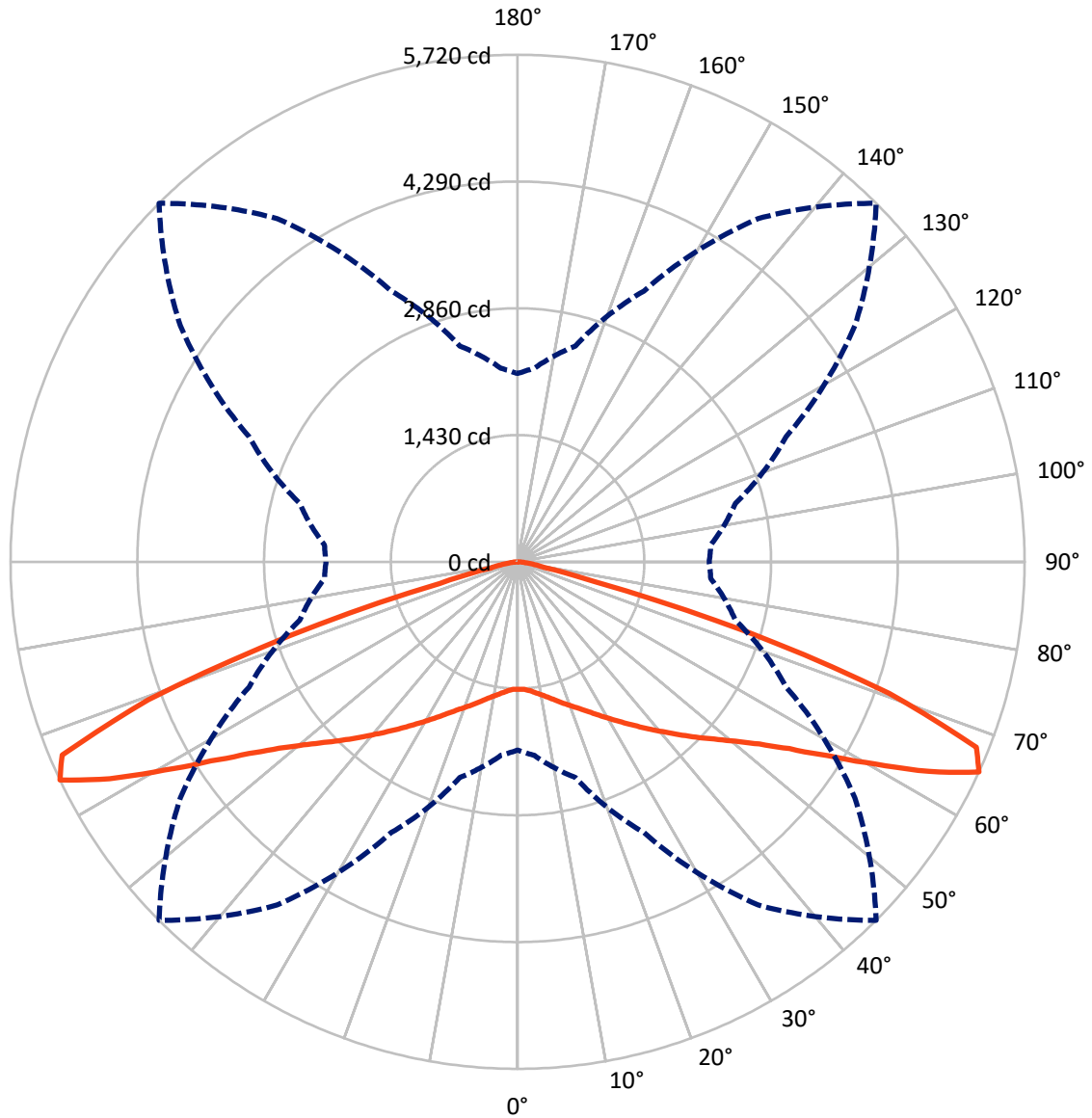
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 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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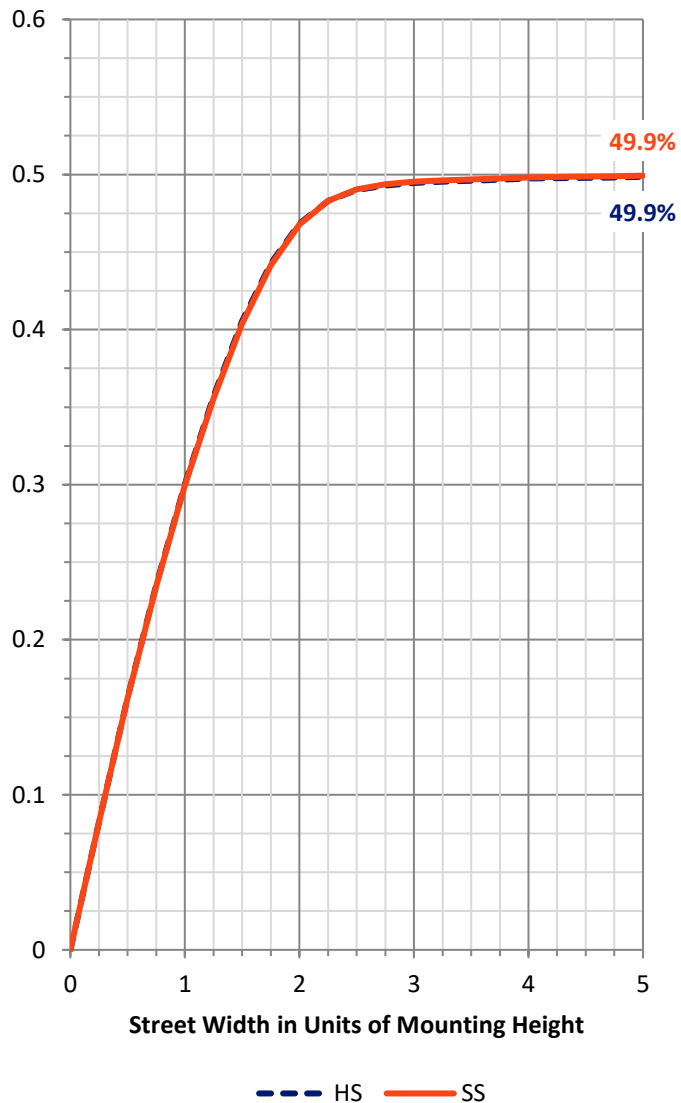
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6047.5	0.0	6047.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6047.5	0.0	6047.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	12095.0	0.0	12095.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.1	1.2
10°-20°	463.5	3.8
20°-30°	875.2	7.2
30°-40°	1433.2	11.8
40°-50°	2222.1	18.4
50°-60°	3282.5	27.1
60°-70°	3124.7	25.8
70°-80°	504.2	4.2
80°-90°	47.5	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°	12095.0	100.0
0°-180°	12095.0	100.0

Coefficient of Utilization



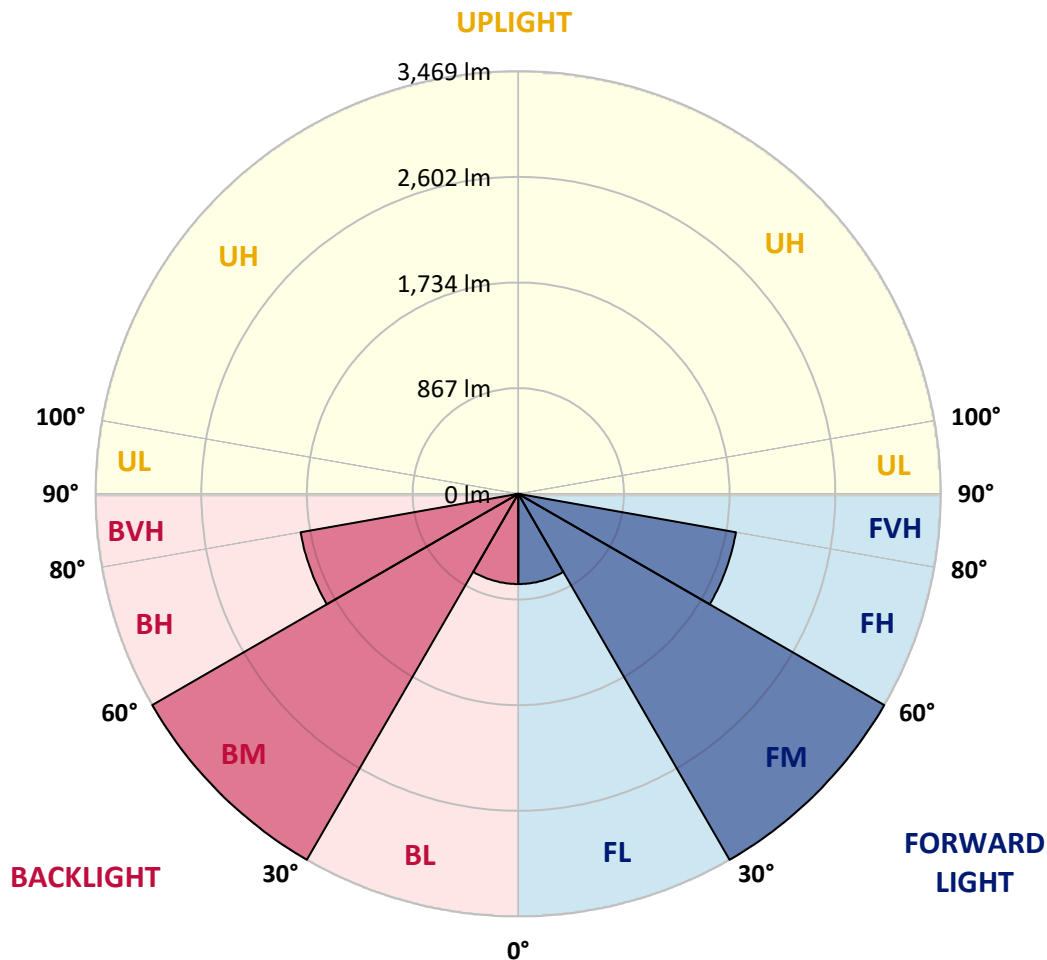
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	740.4	6.1			
FM (30°-60°)	3468.9	28.7			
FH (60°-80°)	1814.4	15.0			G2/5000
FVH (80°-90°)	23.8	0.2			G1/100
BL (0°-30°)	740.4	6.1	B2/1000		
BM (30°-60°)	3468.9	28.7	B3/5000		
BH (60°-80°)	1814.4	15.0	B3/2500		G2/5000
BVH (80°-90°)	23.8	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°	1439.4	1439.4	1439.4	1439.4	1439.4	1439.4	1439.4	1439.4	1439.4	1439.4	1439.4
2.5°	1449.1	1444.3	1447.9	1444.8	1442.5	1440.0	1441.3	1445.5	1447.3	1447.9	1447.9
5°	1468.5	1464.3	1466.2	1466.2	1461.9	1460.6	1461.2	1464.3	1467.9	1467.9	1467.9
7.5°	1500.1	1495.9	1500.1	1497.7	1494.0	1492.8	1492.2	1494.7	1500.1	1500.1	1498.2
10°	1538.3	1533.5	1536.0	1534.7	1530.4	1528.6	1528.1	1531.7	1536.5	1536.0	1534.7
12.5°	1580.2	1574.7	1577.8	1574.2	1573.0	1571.1	1571.1	1570.5	1573.6	1571.1	1572.4
15°	1627.0	1623.3	1624.5	1622.1	1623.9	1622.7	1617.9	1615.4	1616.6	1612.9	1613.6
17.5°	1682.1	1673.6	1677.9	1676.7	1676.7	1679.2	1671.3	1668.2	1670.6	1667.0	1670.0
20°	1745.9	1737.4	1739.2	1736.8	1733.8	1736.1	1726.5	1728.9	1730.7	1728.3	1733.8
22.5°	1815.7	1804.7	1804.1	1805.3	1798.7	1799.3	1792.6	1798.7	1802.4	1795.6	1802.4
25°	1887.2	1875.7	1883.6	1880.6	1872.1	1873.9	1869.1	1875.1	1878.2	1869.7	1879.3
27.5°	1963.1	1955.3	1962.6	1964.3	1954.1	1961.3	1954.1	1959.5	1962.6	1949.8	1959.5
30°	2051.7	2043.8	2050.5	2055.3	2043.2	2054.7	2048.7	2052.4	2053.0	2037.8	2046.8
32.5°	2148.2	2136.1	2153.1	2155.5	2142.1	2156.1	2148.2	2153.1	2156.1	2135.5	2149.4
35°	2266.0	2250.8	2270.2	2267.2	2255.6	2267.2	2259.9	2267.2	2274.5	2249.6	2264.7
37.5°	2392.8	2377.0	2397.6	2392.1	2381.3	2389.2	2384.9	2389.8	2401.3	2374.6	2390.9
40°	2532.4	2512.9	2540.9	2531.1	2520.8	2519.6	2522.0	2525.1	2540.3	2510.5	2520.2
42.5°	2681.6	2661.0	2702.8	2687.7	2673.1	2663.5	2671.4	2677.4	2692.0	2658.5	2676.2
45°	2852.2	2828.5	2883.1	2864.9	2841.8	2821.8	2834.5	2843.7	2864.9	2824.8	2845.5
47.5°	3040.3	3013.6	3071.8	3066.4	3028.8	2985.0	3014.2	3040.3	3056.0	3007.5	3023.9
50°	3224.1	3203.5	3280.0	3286.7	3240.5	3179.2	3219.9	3259.3	3263.6	3199.8	3207.7
52.5°	3396.4	3375.8	3486.9	3528.8	3487.6	3414.7	3457.7	3497.8	3465.6	3383.1	3385.6
55°	3534.2	3517.3	3658.6	3766.7	3780.6	3720.5	3746.1	3744.8	3639.3	3512.4	3516.7
57.5°	3567.6	3565.2	3743.6	3972.4	4118.0	4125.3	4074.9	3946.2	3718.7	3548.2	3537.3
60°	3415.9	3431.1	3676.3	4079.8	4468.2	4629.6	4411.7	4044.5	3628.3	3391.6	3363.7
62.5°	2961.9	3002.0	3297.5	3948.7	4751.0	5209.8	4681.8	3895.3	3256.9	2948.0	2929.9
65°	2122.8	2192.5	2519.0	3369.8	4725.5	5719.5	4642.9	3342.5	2543.2	2187.0	2161.0
67.5°	963.1	1034.0	1311.4	2307.2	4107.7	5581.1	4098.0	2331.5	1376.9	1037.7	1022.5
70°	348.9	361.1	450.3	923.6	2625.2	4447.0	2737.5	930.3	478.8	384.8	379.9
72.5°	211.2	213.0	231.9	330.8	912.0	2699.8	950.9	341.6	236.7	209.9	213.6
75°	134.1	132.9	165.0	202.0	323.5	910.9	339.3	202.0	164.4	149.9	151.1
77.5°	96.5	99.5	118.3	151.1	203.9	308.8	200.3	144.4	118.3	97.1	98.9
80°	72.3	74.0	86.2	117.8	143.2	192.4	127.4	106.8	89.2	60.7	62.5
82.5°	52.2	52.2	56.5	85.6	87.4	103.7	69.2	75.2	58.8	43.0	43.0
85°	31.0	30.3	35.2	50.9	45.5	38.2	31.6	46.1	37.0	26.6	26.1
87.5°	11.0	11.5	11.0	14.6	12.1	10.4	9.7	12.7	10.4	9.1	8.5
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)