

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: P961854

Luminaire Tested: **NAV-SB2B-727-U-5NQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P961854  
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-727-U-5NQ  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

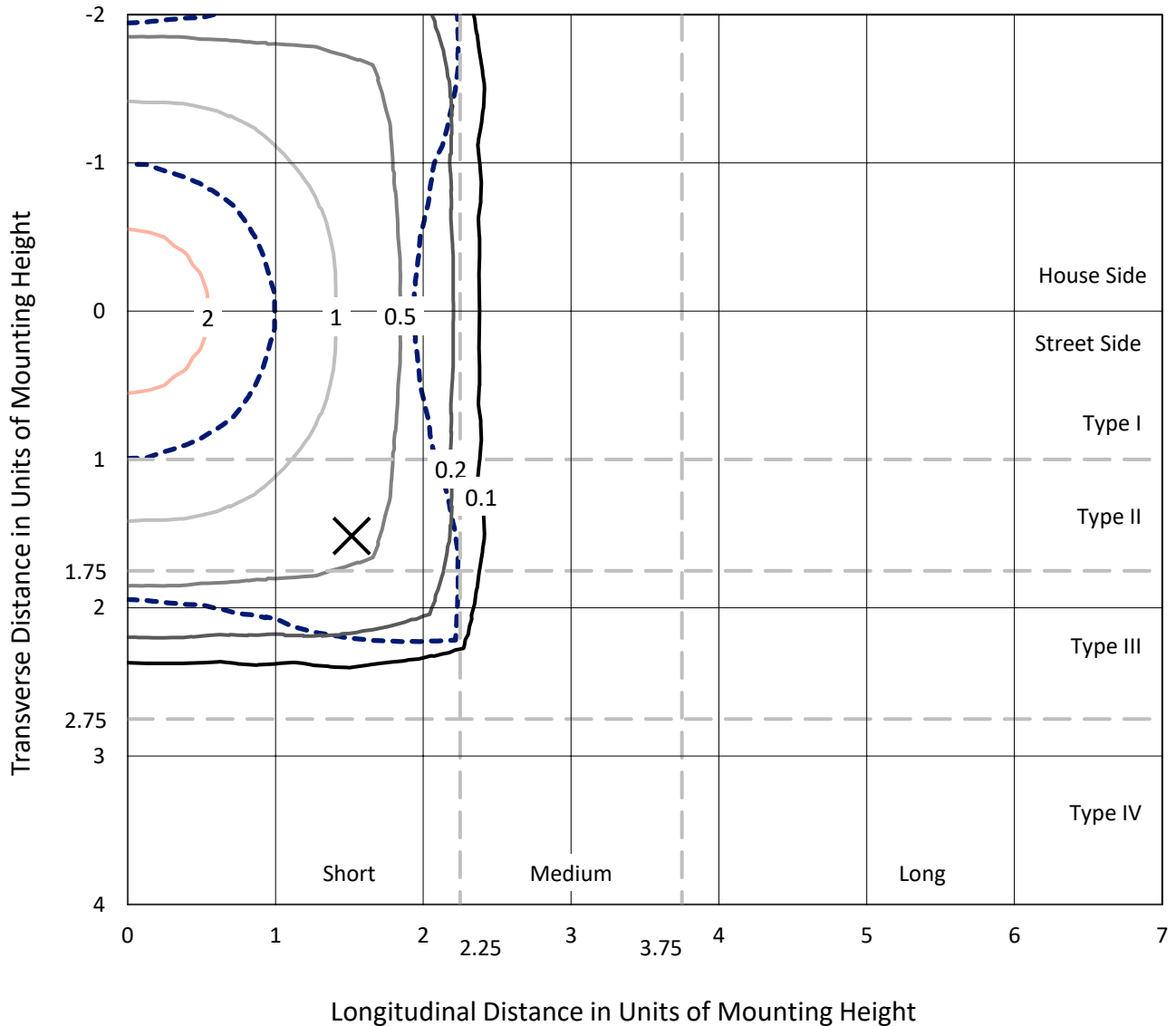
Lumens per Lamp: N/A  
Luminaire Lumens: 11218.6 lumens  
Efficiency: N/A  
Efficacy: 151.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G1  
  
Input Watts (W): 73.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

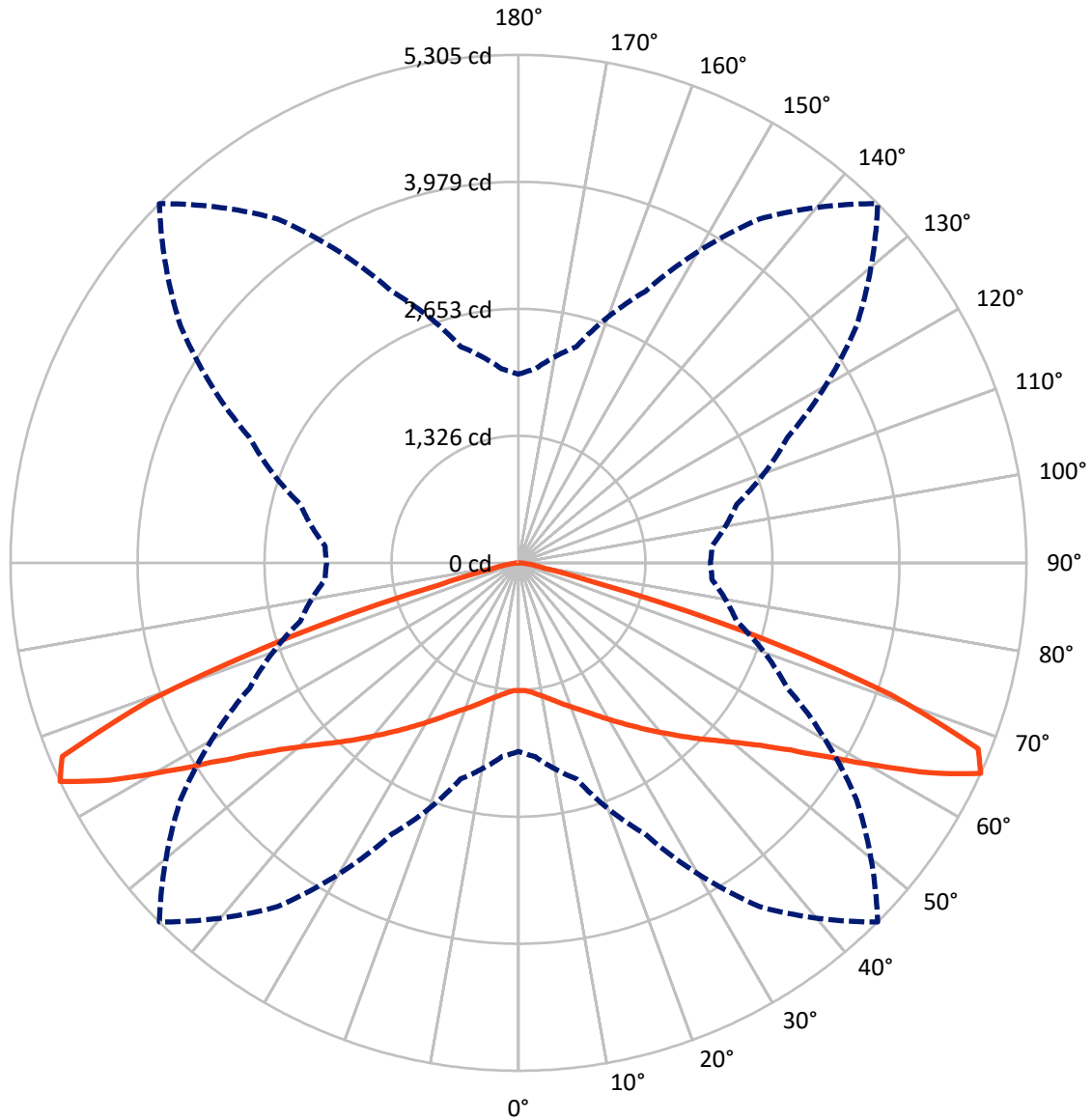
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 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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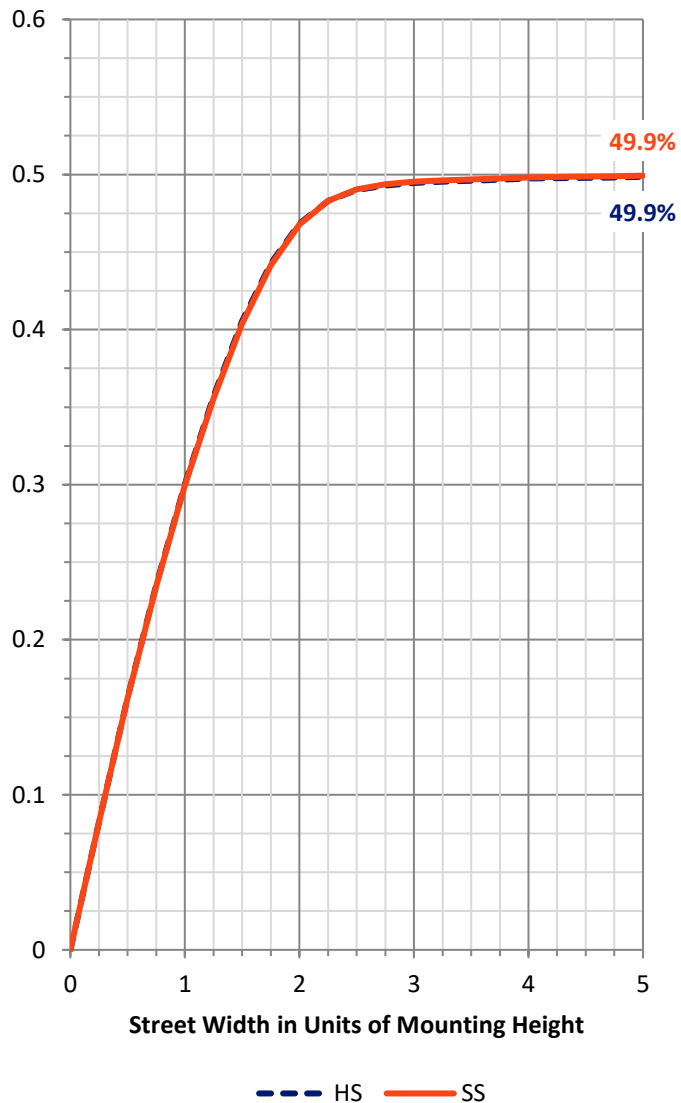
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5609.3	0.0	5609.3
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	5609.3	0.0	5609.3
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	11218.6	0.0	11218.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	131.8	1.2
10°-20°	430.0	3.8
20°-30°	811.8	7.2
30°-40°	1329.3	11.8
40°-50°	2061.1	18.4
50°-60°	3044.7	27.1
60°-70°	2898.2	25.8
70°-80°	467.7	4.2
80°-90°	44.1	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°	11218.6	100.0
0°-180°	11218.6	100.0

**Coefficient of Utilization**



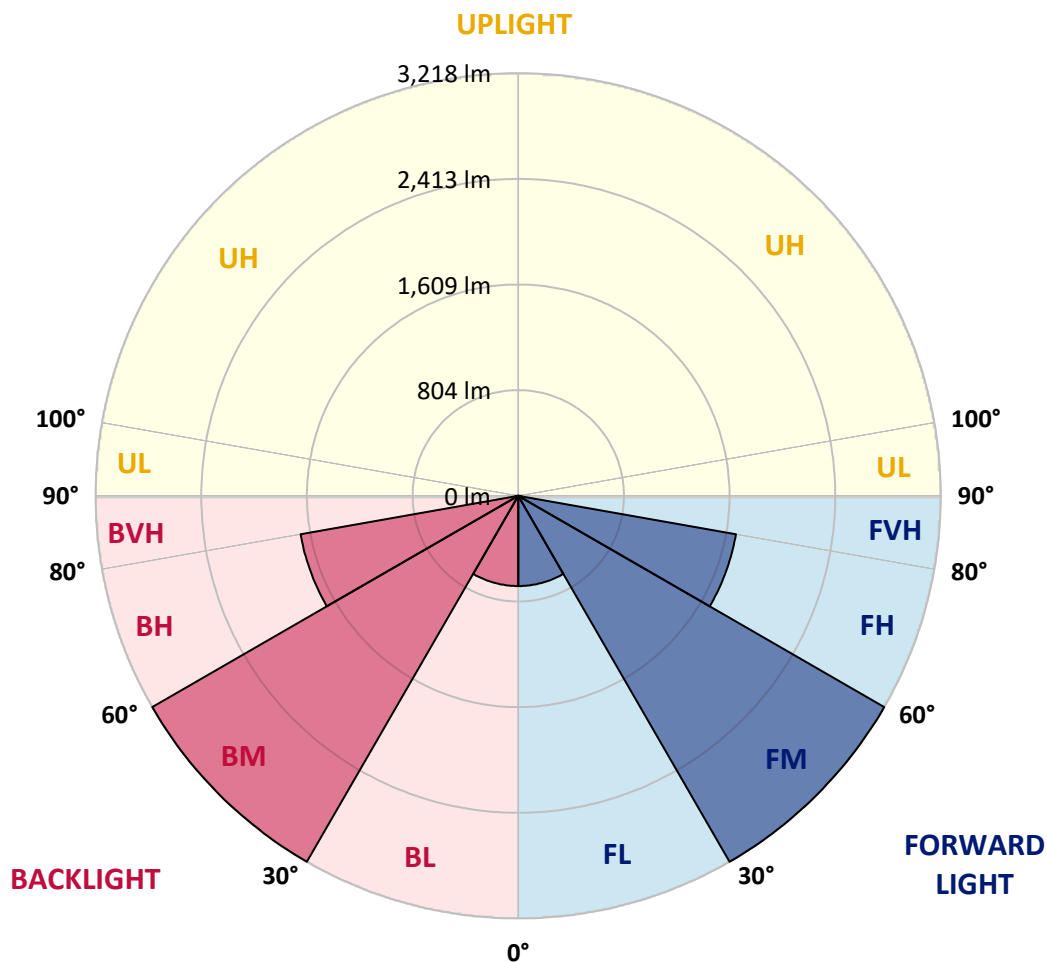
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	686.8	6.1			
FM (30°-60°)	3217.5	28.7			
FH (60°-80°)	1683.0	15.0			G1/1800
FVH (80°-90°)	22.0	0.2			G1/100
BL (0°-30°)	686.8	6.1	B2/1000		
BM (30°-60°)	3217.5	28.7	B3/5000		
BH (60°-80°)	1683.0	15.0	B3/2500		G1/1800
BVH (80°-90°)	22.0	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-G1**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1335.2	1335.2	1335.2	1335.2	1335.2	1335.2	1335.2	1335.2	1335.2	1335.2	1335.2
2.5°	1344.2	1339.7	1343.1	1340.2	1337.9	1335.7	1336.8	1340.8	1342.4	1343.1	1343.1
5°	1362.1	1358.2	1359.9	1359.9	1356.0	1354.8	1355.4	1358.2	1361.6	1361.6	1361.6
7.5°	1391.4	1387.4	1391.4	1389.2	1385.8	1384.7	1384.1	1386.3	1391.4	1391.4	1389.7
10°	1426.9	1422.4	1424.6	1423.5	1419.5	1417.9	1417.3	1420.6	1425.2	1424.6	1423.5
12.5°	1465.7	1460.6	1463.5	1460.1	1459.0	1457.2	1457.2	1456.7	1459.5	1457.2	1458.4
15°	1509.0	1505.7	1506.9	1504.6	1506.2	1505.1	1500.6	1498.3	1499.5	1496.1	1496.7
17.5°	1560.3	1552.4	1556.4	1555.2	1555.2	1557.5	1550.1	1547.3	1549.6	1546.2	1549.0
20°	1619.4	1611.5	1613.1	1610.9	1608.1	1610.4	1601.4	1603.6	1605.4	1603.1	1608.1
22.5°	1684.1	1673.9	1673.4	1674.5	1668.4	1668.9	1662.8	1668.4	1671.8	1665.5	1671.8
25°	1750.5	1739.8	1747.1	1744.3	1736.5	1738.2	1733.7	1739.2	1742.1	1734.2	1743.2
27.5°	1820.9	1813.5	1820.3	1822.0	1812.4	1819.2	1812.4	1817.5	1820.3	1808.5	1817.5
30°	1903.0	1895.7	1902.0	1906.4	1895.2	1905.9	1900.2	1903.6	1904.1	1890.1	1898.6
32.5°	1992.6	1981.3	1997.1	1999.4	1987.0	1999.9	1992.6	1997.1	1999.9	1980.7	1993.7
35°	2101.8	2087.7	2105.7	2102.9	2092.2	2102.9	2096.1	2102.9	2109.7	2086.6	2100.6
37.5°	2219.4	2204.8	2223.9	2218.8	2208.7	2216.0	2212.1	2216.6	2227.3	2202.5	2217.7
40°	2348.9	2330.8	2356.8	2347.8	2338.1	2337.0	2339.3	2342.1	2356.2	2328.6	2337.6
42.5°	2487.4	2468.2	2507.0	2492.9	2479.5	2470.5	2477.7	2483.4	2496.9	2465.9	2482.2
45°	2645.5	2623.6	2674.2	2657.3	2635.9	2617.3	2629.1	2637.6	2657.3	2620.2	2639.3
47.5°	2820.0	2795.2	2849.3	2844.2	2809.3	2768.7	2795.8	2820.0	2834.6	2789.5	2804.8
50°	2990.5	2971.4	3042.3	3048.6	3005.7	2948.9	2986.5	3023.1	3027.1	2968.0	2975.4
52.5°	3150.3	3131.3	3234.3	3273.1	3234.8	3167.2	3207.2	3244.4	3214.5	3138.0	3140.3
55°	3278.2	3262.4	3393.6	3493.7	3506.7	3451.0	3474.6	3473.5	3375.5	3257.9	3261.9
57.5°	3309.1	3306.9	3472.4	3684.6	3819.7	3826.4	3779.7	3660.4	3449.2	3291.1	3280.9
60°	3168.4	3182.4	3409.9	3784.2	4144.4	4294.1	4092.1	3751.5	3365.4	3145.9	3120.0
62.5°	2747.4	2784.5	3058.6	3662.6	4406.7	4832.3	4342.5	3613.0	3020.9	2734.4	2717.6
65°	1968.9	2033.6	2336.5	3125.6	4383.1	5305.1	4306.5	3100.3	2359.0	2028.6	2004.4
67.5°	893.3	959.1	1216.4	2140.0	3810.0	5176.8	3801.1	2162.5	1277.1	962.5	948.4
70°	323.7	334.9	417.7	856.7	2435.0	4124.7	2539.1	862.8	444.1	356.9	352.4
72.5°	195.9	197.5	215.0	306.8	846.0	2504.2	882.0	316.9	219.6	194.7	198.1
75°	124.4	123.3	153.1	187.5	300.0	844.9	314.7	187.5	152.5	139.0	140.1
77.5°	89.5	92.4	109.8	140.1	189.1	286.5	185.7	134.0	109.8	90.1	91.7
80°	66.9	68.7	79.9	109.2	132.8	178.5	118.2	99.0	82.7	56.3	58.0
82.5°	48.4	48.4	52.4	79.3	81.1	96.2	64.2	69.8	54.6	40.0	40.0
85°	28.7	28.2	32.7	47.3	42.2	35.5	29.3	42.7	34.3	24.8	24.2
87.5°	10.1	10.7	10.1	13.5	11.3	9.5	9.0	11.8	9.5	8.4	7.9
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)