

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: P963408

Luminaire Tested: **NAV-SB3A-722-U-RW**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P963408  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB3A-722-U-RW  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR  
WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

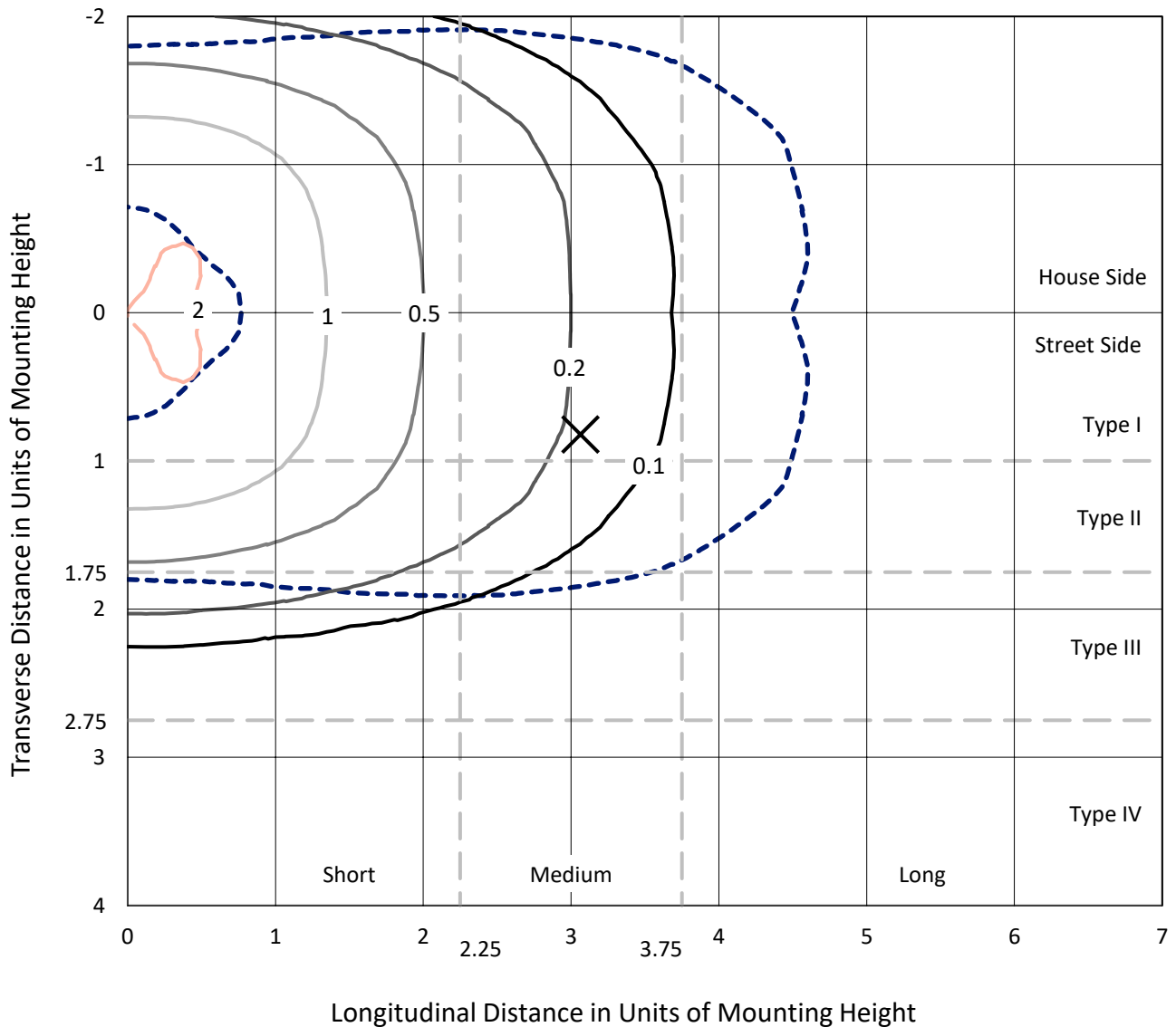
Lumens per Lamp: N/A  
Luminaire Lumens: 11735.2 lumens  
Efficiency: N/A  
Efficacy: 138.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 84.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

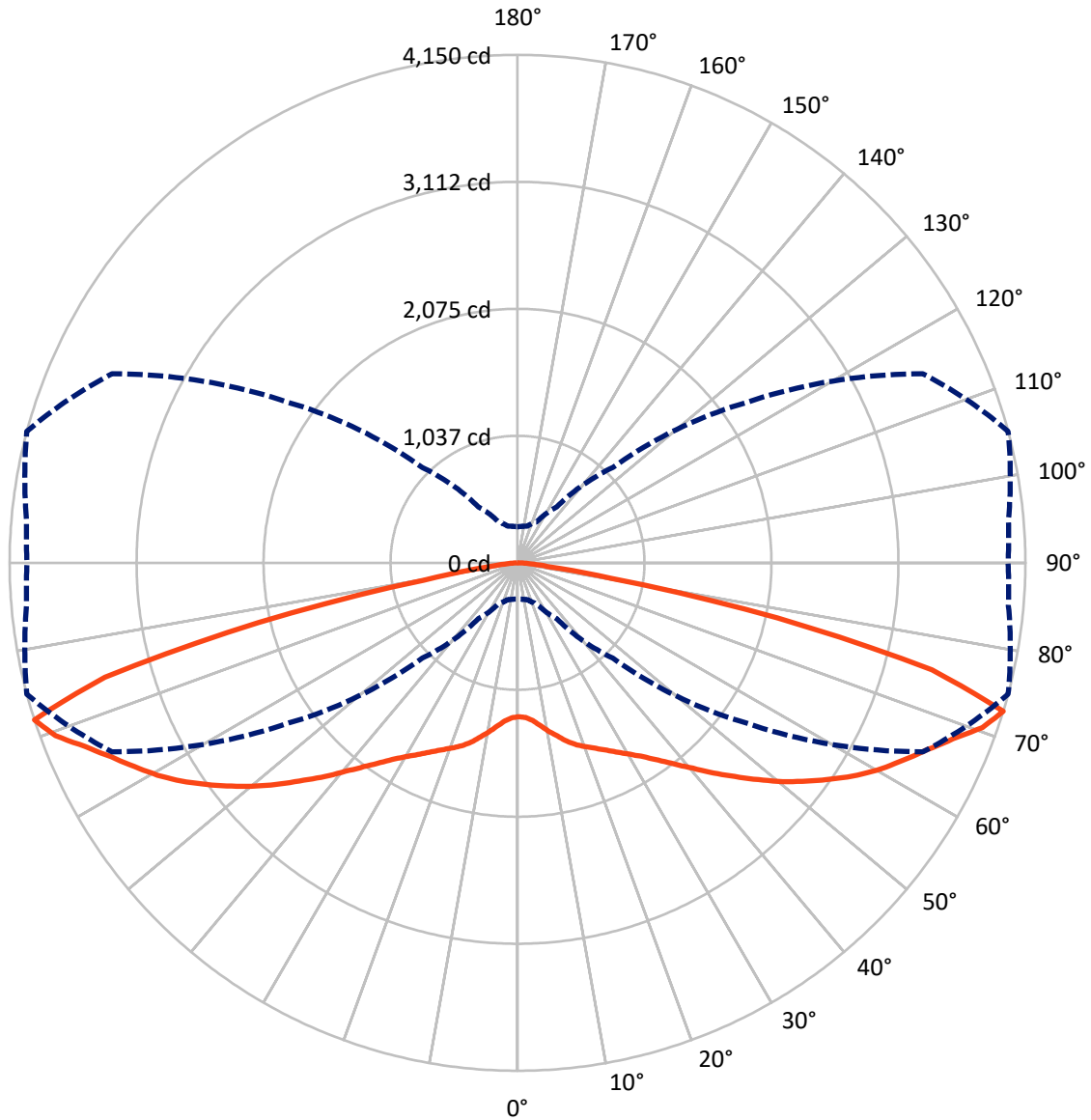
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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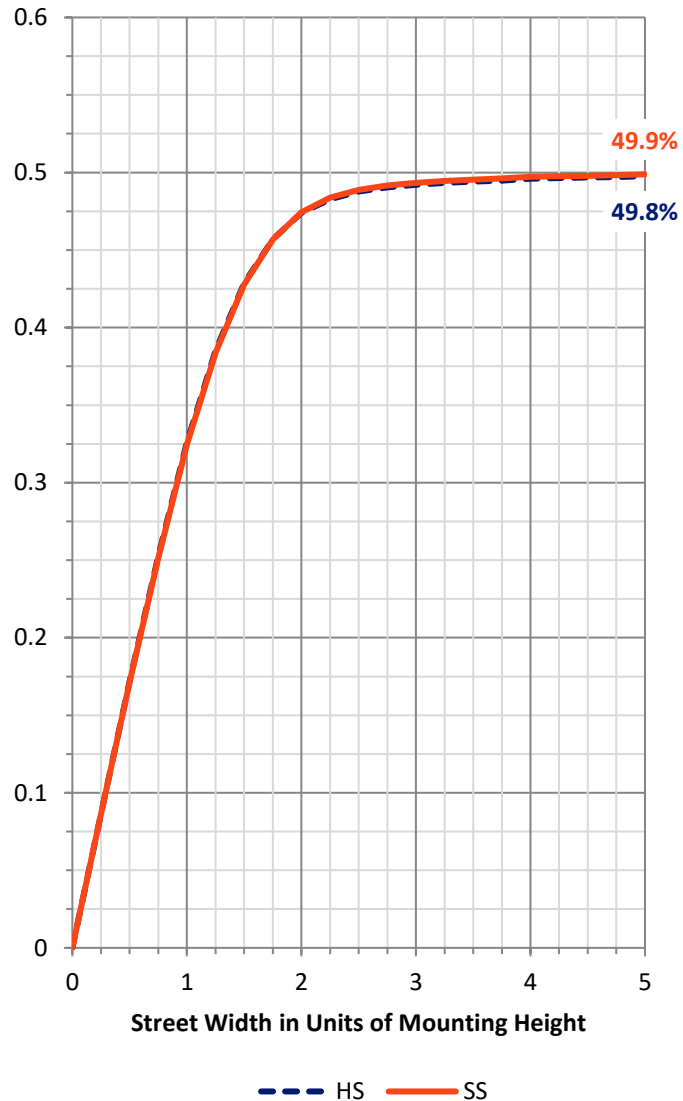
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5867.6	0.0	5867.6
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	5867.6	0.0	5867.6
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	11735.2	0.0	11735.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	123.1	1.0
10°-20°	406.1	3.5
20°-30°	784.8	6.7
30°-40°	1325.1	11.3
40°-50°	2101.5	17.9
50°-60°	2813.7	24.0
60°-70°	2677.7	22.8
70°-80°	1397.3	11.9
80°-90°	105.8	0.9
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°	11735.2	100.0
0°-180°	11735.2	100.0

**Coefficient of Utilization**

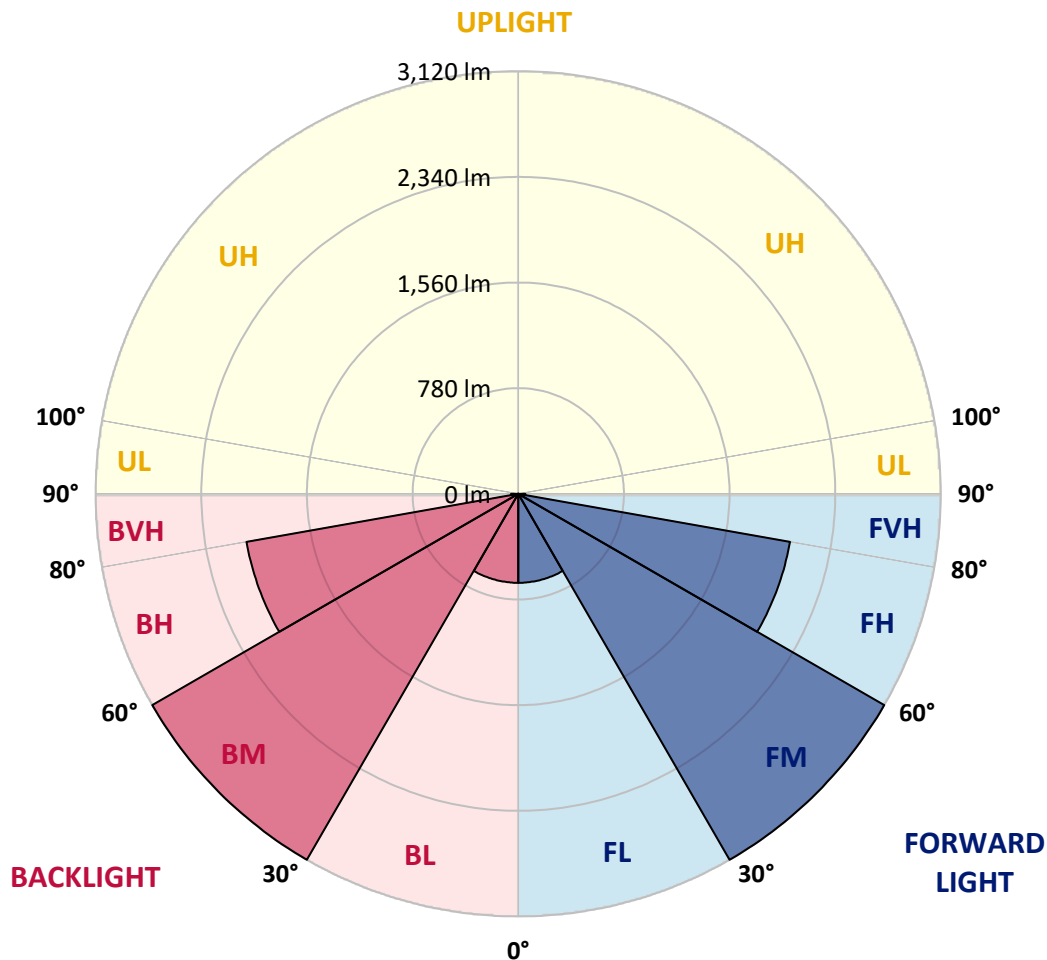


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	657.0	5.6			
FM (30°-60°)	3120.2	26.6			
FH (60°-80°)	2037.5	17.4			G2/5000
FVH (80°-90°)	52.9	0.5			G1/100
BL (0°-30°)	657.0	5.6	B2/1000		
BM (30°-60°)	3120.2	26.6	B3/5000		
BH (60°-80°)	2037.5	17.4	B3/2500		G3/2500
BVH (80°-90°)	52.9	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**  
 Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1257.1	1257.1	1257.1	1257.1	1257.1	1257.1	1257.1	1257.1	1257.1	1257.1	1257.1
2.5°	1257.1	1255.8	1257.1	1258.3	1257.7	1257.7	1260.6	1262.5	1266.1	1265.5	1264.8
5°	1248.7	1248.0	1252.9	1258.3	1262.5	1269.7	1278.6	1285.2	1293.7	1295.4	1295.4
7.5°	1244.5	1242.7	1251.0	1260.6	1273.9	1291.8	1309.1	1327.2	1341.5	1346.3	1347.6
10°	1247.4	1248.0	1259.4	1277.5	1298.4	1323.6	1348.1	1378.7	1399.0	1403.8	1408.7
12.5°	1261.3	1260.0	1279.2	1308.0	1336.7	1368.5	1397.3	1430.8	1452.9	1464.3	1469.1
15°	1286.4	1284.0	1311.0	1353.5	1395.4	1432.6	1456.0	1487.7	1513.5	1527.9	1533.3
17.5°	1316.4	1317.5	1352.9	1408.0	1463.2	1505.1	1527.2	1543.4	1563.2	1575.8	1581.8
20°	1369.1	1371.4	1411.0	1476.3	1539.2	1587.2	1605.1	1599.2	1604.5	1614.2	1621.3
22.5°	1439.8	1441.0	1485.3	1556.1	1622.0	1674.6	1686.6	1662.1	1647.1	1653.7	1658.4
25°	1521.9	1529.7	1574.0	1646.6	1714.2	1764.5	1770.0	1732.8	1695.7	1697.4	1700.5
27.5°	1622.0	1629.1	1674.0	1746.0	1814.9	1858.6	1858.0	1808.3	1753.8	1739.9	1744.1
30°	1730.4	1738.2	1784.3	1858.6	1922.7	1961.0	1952.7	1893.4	1815.5	1789.8	1792.7
32.5°	1859.2	1864.0	1910.7	1985.0	2044.4	2074.9	2057.6	1984.4	1887.3	1858.0	1865.2
35°	2015.0	2022.2	2057.0	2127.1	2179.1	2204.4	2174.9	2088.7	1979.7	1946.7	1951.5
37.5°	2193.0	2188.2	2227.7	2290.1	2333.2	2348.7	2308.6	2206.1	2085.1	2046.1	2053.4
40°	2378.7	2376.3	2419.4	2479.4	2502.7	2512.3	2453.0	2340.9	2206.7	2164.8	2178.5
42.5°	2547.0	2545.3	2603.4	2669.9	2698.0	2687.2	2612.4	2484.2	2347.6	2299.6	2311.6
45°	2681.9	2679.5	2750.8	2844.3	2899.4	2881.4	2780.7	2642.3	2490.1	2440.4	2451.8
47.5°	2785.5	2786.8	2863.4	2979.1	3075.5	3082.1	2952.7	2803.5	2647.2	2590.8	2607.6
50°	2860.5	2864.1	2946.1	3074.3	3206.1	3264.2	3128.3	2968.9	2809.5	2746.0	2765.1
52.5°	2879.0	2885.6	2984.5	3134.9	3290.0	3400.8	3306.8	3127.7	2963.5	2903.0	2918.6
55°	2780.1	2793.3	2918.6	3130.0	3341.6	3490.7	3463.8	3288.8	3118.7	3056.3	3073.8
57.5°	2553.1	2571.6	2717.8	2994.0	3330.1	3552.4	3585.4	3443.4	3273.8	3213.9	3227.7
60°	2234.9	2257.0	2397.3	2698.6	3169.6	3575.2	3671.1	3593.9	3416.4	3358.3	3370.9
62.5°	1755.0	1783.7	1951.5	2305.0	2830.4	3469.2	3744.2	3729.8	3544.7	3472.2	3480.6
65°	1125.9	1156.4	1333.1	1750.8	2378.1	3144.4	3767.0	3862.2	3680.1	3578.8	3591.4
67.5°	678.9	692.6	780.1	1061.1	1738.2	2655.0	3574.1	4009.0	3838.2	3712.4	3722.0
70°	434.4	442.2	494.4	623.1	982.7	1937.1	3095.9	4036.6	4030.0	3849.7	3848.5
72.5°	294.8	297.1	311.0	369.1	556.1	1100.6	2283.4	3654.3	4149.8	4026.4	4007.2
75°	215.7	228.9	251.0	261.3	315.8	550.0	1308.6	2567.4	3497.3	3551.2	3420.6
77.5°	160.6	161.1	191.8	203.7	225.3	292.9	553.6	1433.3	2171.4	2279.8	2033.6
80°	136.0	128.8	128.2	164.2	169.5	182.8	247.4	494.9	777.8	471.5	356.5
82.5°	113.3	105.5	95.2	128.2	115.6	112.0	107.2	201.3	247.4	121.7	103.6
85°	79.1	75.5	71.9	83.8	65.9	56.3	51.6	94.1	104.2	51.6	45.5
87.5°	34.1	35.4	36.0	37.1	27.6	19.8	19.8	26.3	26.3	20.4	15.0
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)