

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: P961858

Luminaire Tested: **NAV-SB2B-727-U-RW**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P961858  
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-SB2B-727-U-RW  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR  
WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

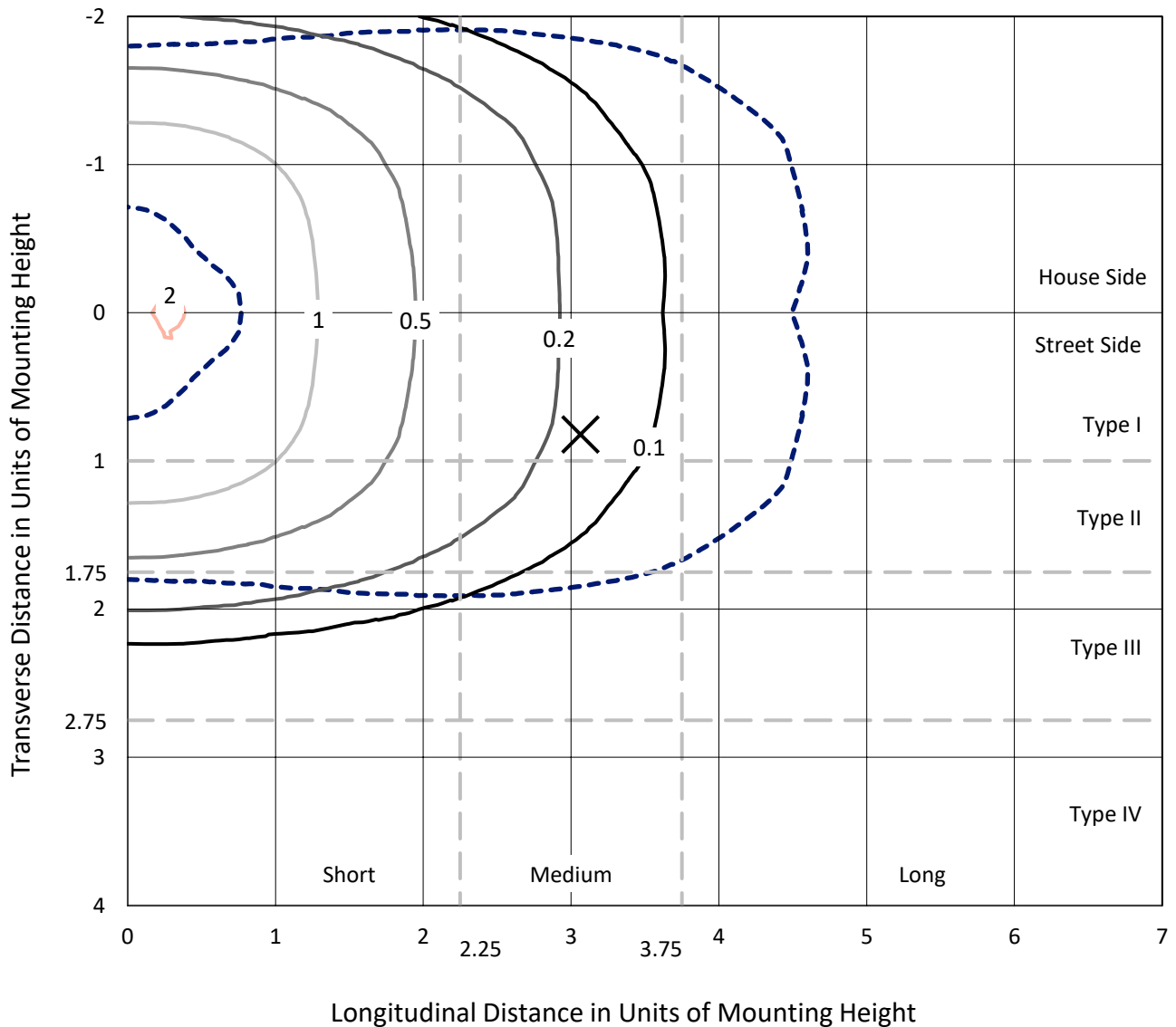
Lumens per Lamp: N/A  
Luminaire Lumens: 11024.9 lumens  
Efficiency: N/A  
Efficacy: 149.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 73.9  
Input Voltage (V): NR  
Input Current (Ain): 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

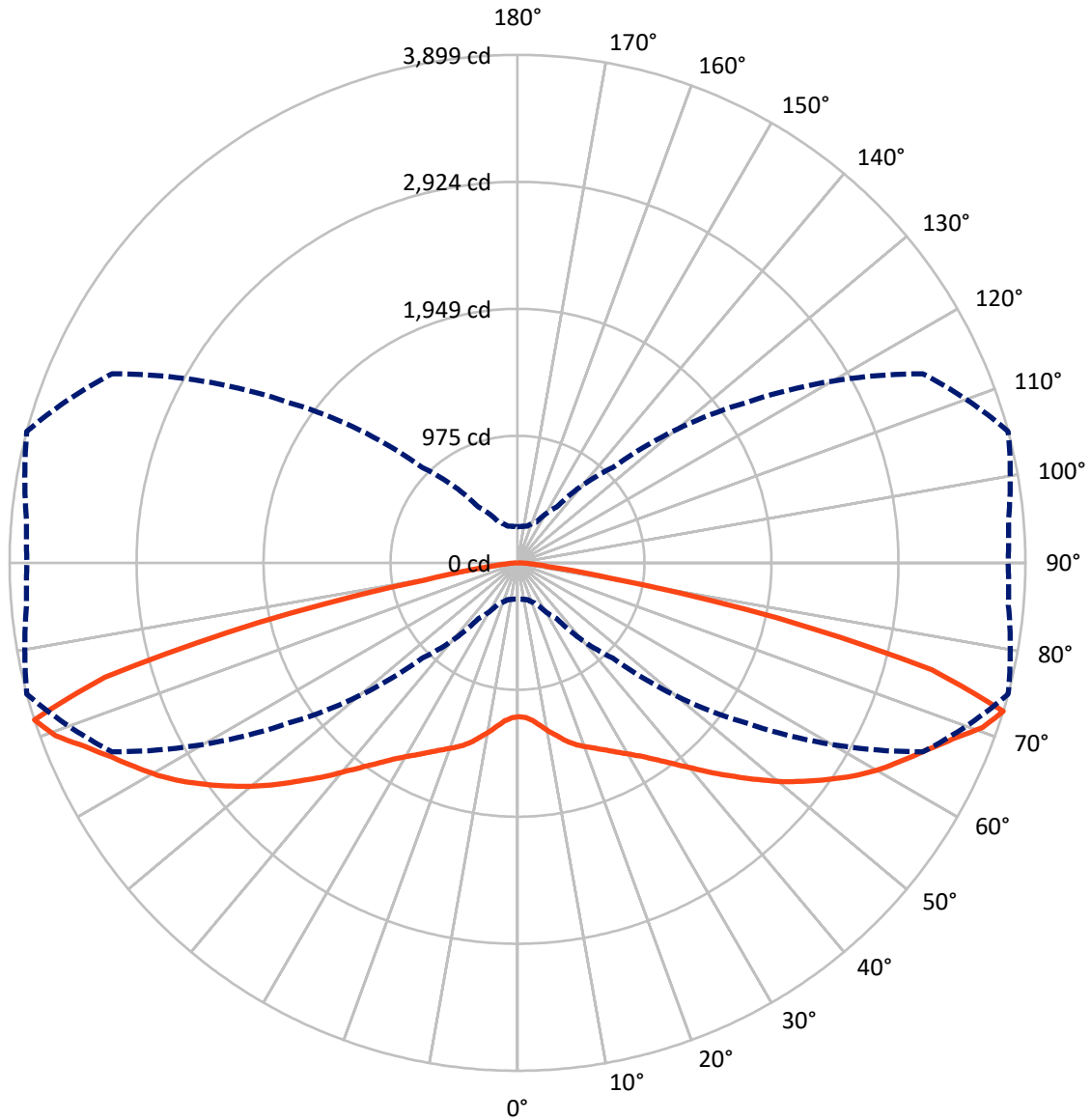
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 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	5512.4	0.0	5512.4
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	5512.4	0.0	5512.4
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	11024.9	0.0	11024.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	115.7	1.0
10°-20°	381.6	3.5
20°-30°	737.3	6.7
30°-40°	1244.9	11.3
40°-50°	1974.3	17.9
50°-60°	2643.4	24.0
60°-70°	2515.7	22.8
70°-80°	1312.7	11.9
80°-90°	99.4	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°	11024.9	100.0
0°-180°	11024.9	100.0

**Coefficient of Utilization**

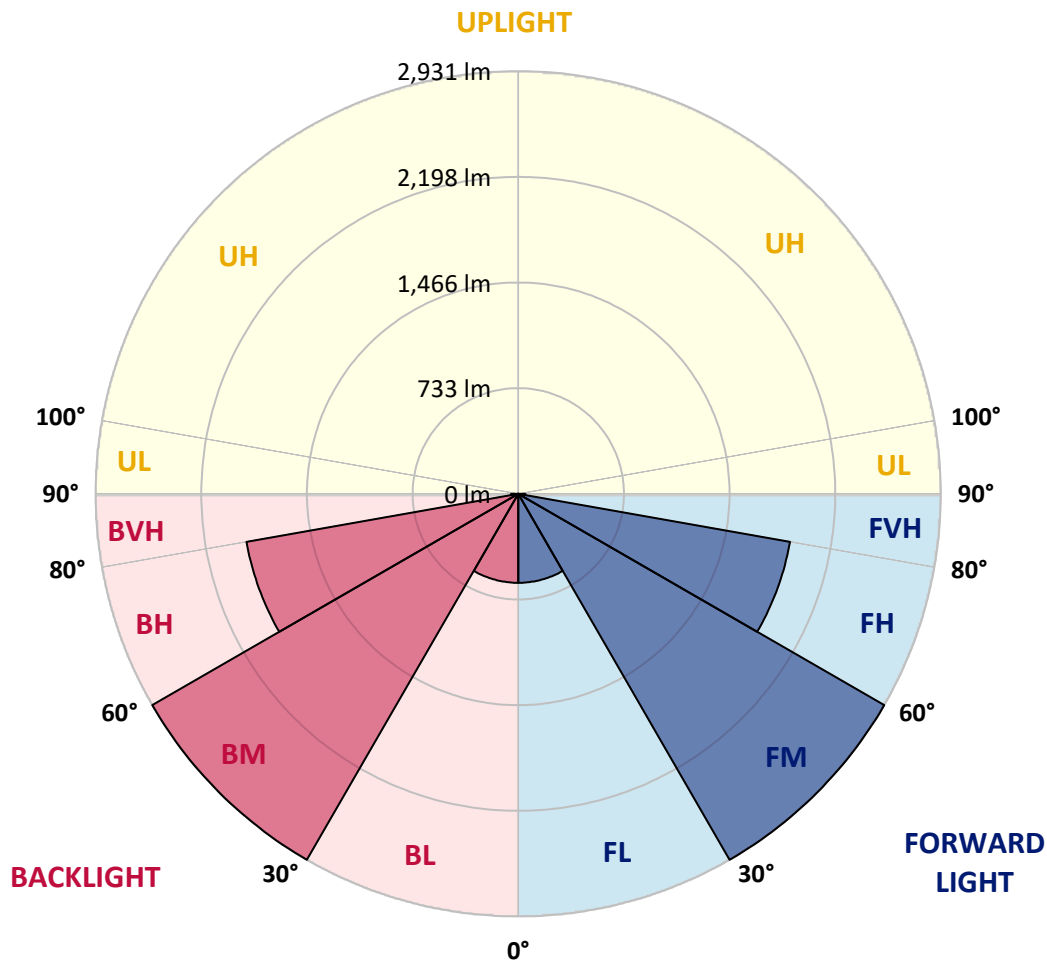


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	617.3	5.6			
FM (30°-60°)	2931.3	26.6			
FH (60°-80°)	1914.2	17.4			G2/5000
FVH (80°-90°)	49.7	0.5			G1/100
BL (0°-30°)	617.3	5.6	B2/1000		
BM (30°-60°)	2931.3	26.6	B3/5000		
BH (60°-80°)	1914.2	17.4	B3/2500		G3/2500
BVH (80°-90°)	49.7	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°	1181.0	1181.0	1181.0	1181.0	1181.0	1181.0	1181.0	1181.0	1181.0	1181.0	1181.0
2.5°	1181.0	1179.9	1181.0	1182.1	1181.5	1181.5	1184.4	1186.0	1189.4	1188.8	1188.3
5°	1173.1	1172.5	1177.0	1182.1	1186.0	1192.8	1201.2	1207.4	1215.3	1217.0	1217.0
7.5°	1169.1	1167.5	1175.4	1184.4	1196.7	1213.6	1229.9	1246.8	1260.3	1264.8	1266.0
10°	1172.0	1172.5	1183.3	1200.1	1219.9	1243.4	1266.5	1295.2	1314.4	1318.9	1323.4
12.5°	1184.9	1183.8	1201.8	1228.8	1255.8	1285.7	1312.7	1344.2	1365.0	1375.8	1380.3
15°	1208.6	1206.3	1231.6	1271.6	1311.0	1345.9	1367.9	1397.7	1421.9	1435.4	1440.4
17.5°	1236.7	1237.8	1271.0	1322.9	1374.6	1414.0	1434.8	1450.1	1468.6	1480.4	1486.0
20°	1286.3	1288.5	1325.6	1387.0	1446.1	1491.2	1508.0	1502.3	1507.5	1516.5	1523.3
22.5°	1352.7	1353.8	1395.4	1461.9	1523.8	1573.3	1584.5	1561.5	1547.4	1553.6	1558.1
25°	1429.8	1437.0	1478.8	1546.8	1610.5	1657.7	1662.9	1627.9	1593.1	1594.7	1597.5
27.5°	1523.8	1530.5	1572.8	1640.3	1705.0	1746.1	1745.6	1698.8	1647.6	1634.7	1638.6
30°	1625.6	1632.9	1676.3	1746.1	1806.4	1842.3	1834.4	1778.8	1705.6	1681.4	1684.2
32.5°	1746.7	1751.2	1795.1	1864.9	1920.6	1949.3	1933.0	1864.4	1773.1	1745.6	1752.3
35°	1893.1	1899.8	1932.4	1998.3	2047.2	2070.9	2043.3	1962.3	1859.9	1828.9	1833.3
37.5°	2060.2	2055.7	2092.8	2151.4	2192.0	2206.5	2168.9	2072.5	1958.9	1922.3	1929.0
40°	2234.7	2232.4	2273.0	2329.3	2351.2	2360.3	2304.5	2199.2	2073.2	2033.8	2046.7
42.5°	2392.9	2391.2	2445.8	2508.3	2534.7	2524.6	2454.3	2333.8	2205.5	2160.4	2171.7
45°	2519.6	2517.3	2584.2	2672.1	2723.8	2707.0	2612.4	2482.3	2339.5	2292.7	2303.4
47.5°	2616.9	2618.1	2690.1	2798.8	2889.4	2895.5	2774.0	2633.8	2486.9	2434.0	2449.8
50°	2687.2	2690.6	2767.8	2888.2	3012.1	3066.7	2938.9	2789.1	2639.5	2579.7	2597.8
52.5°	2704.8	2710.9	2803.8	2945.1	3090.9	3195.0	3106.7	2938.4	2784.1	2727.2	2741.9
55°	2611.9	2624.2	2741.9	2940.6	3139.3	3279.5	3254.2	3089.8	2929.9	2871.3	2887.6
57.5°	2398.5	2415.9	2553.3	2812.8	3128.6	3337.4	3368.4	3235.0	3075.7	3019.4	3032.4
60°	2099.6	2120.4	2252.1	2535.3	2977.7	3358.8	3448.9	3376.2	3209.7	3155.1	3166.8
62.5°	1648.7	1675.8	1833.3	2165.5	2659.2	3259.2	3517.6	3504.1	3330.1	3262.0	3269.9
65°	1057.7	1086.4	1252.4	1644.8	2234.2	2954.0	3538.9	3628.5	3457.3	3362.2	3374.0
67.5°	637.8	650.7	732.9	996.9	1632.9	2494.2	3357.7	3766.4	3606.0	3487.8	3496.7
70°	408.1	415.4	464.4	585.4	923.1	1819.9	2908.5	3792.3	3786.0	3616.6	3615.5
72.5°	277.0	279.2	292.1	346.8	522.3	1034.0	2145.2	3433.1	3898.7	3782.7	3764.7
75°	202.6	215.0	235.9	245.4	296.6	516.7	1229.4	2412.0	3285.6	3336.3	3213.6
77.5°	150.9	151.4	180.1	191.4	211.7	275.2	520.1	1346.4	2040.0	2141.8	1910.5
80°	127.8	121.1	120.4	154.3	159.3	171.7	232.5	464.9	730.6	443.0	335.0
82.5°	106.4	99.1	89.5	120.4	108.6	105.3	100.8	189.1	232.5	114.3	97.4
85°	74.3	70.9	67.5	78.8	61.9	52.9	48.4	88.4	98.0	48.4	42.7
87.5°	32.1	33.2	33.8	34.8	25.9	18.6	18.6	24.8	24.8	19.2	14.0
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)