

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: P961388

Luminaire Tested: **NAV-SB2A-735-U-5MQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P961388  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB2A-735-U-5MQ  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

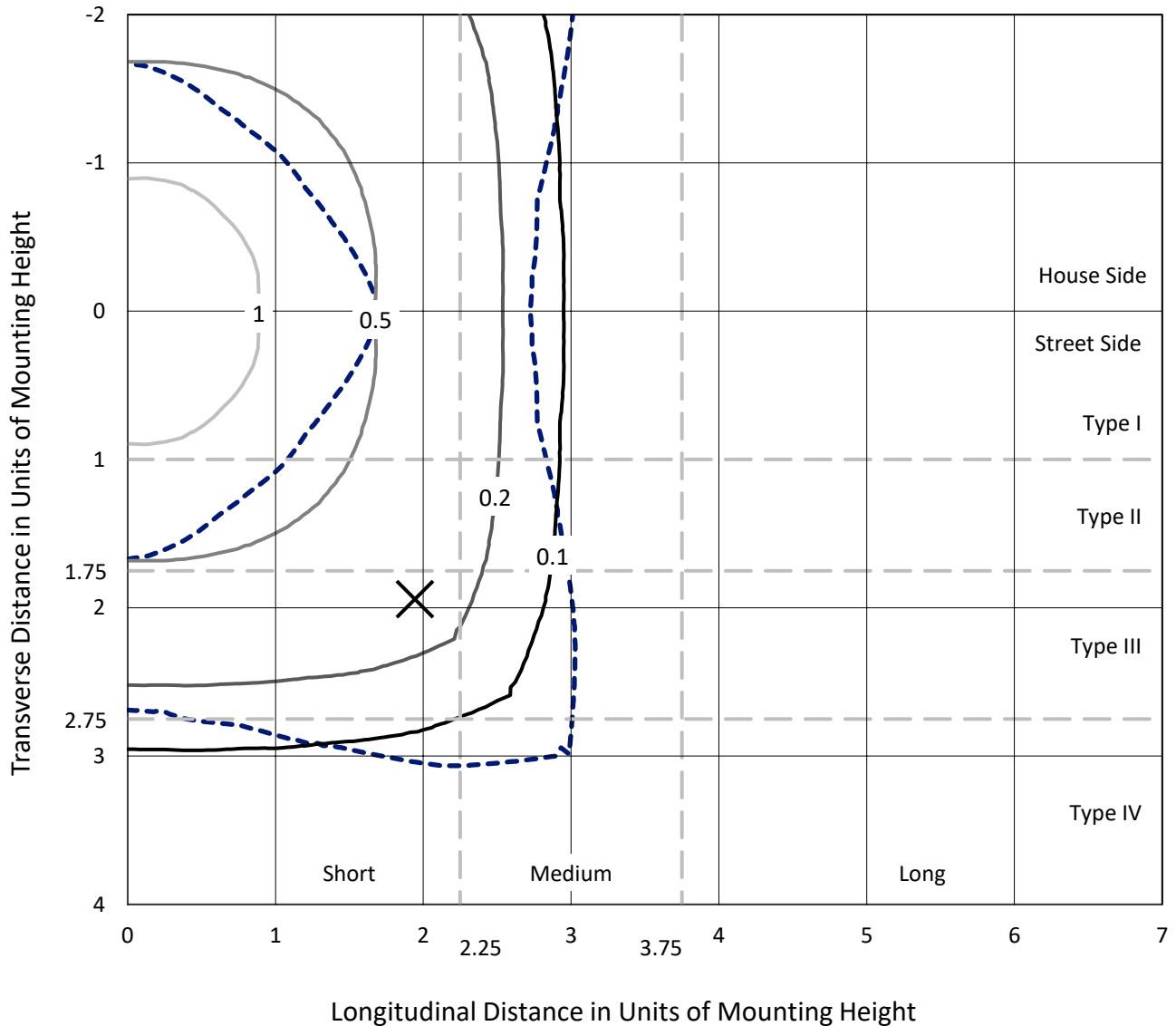
Lumens per Lamp: N/A  
Luminaire Lumens: 9629.9 lumens  
Efficiency: N/A  
Efficacy: 168.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 57.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

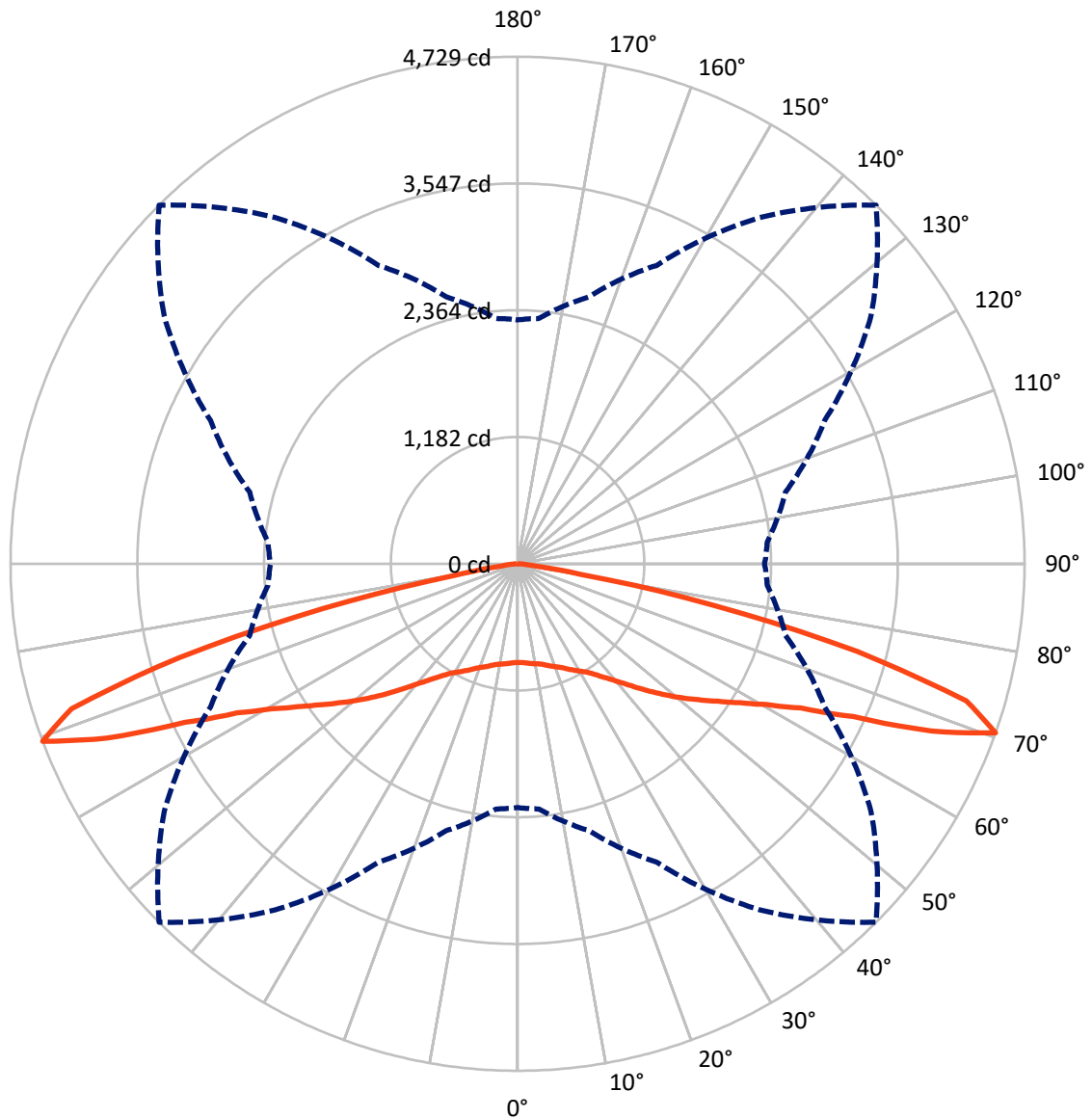
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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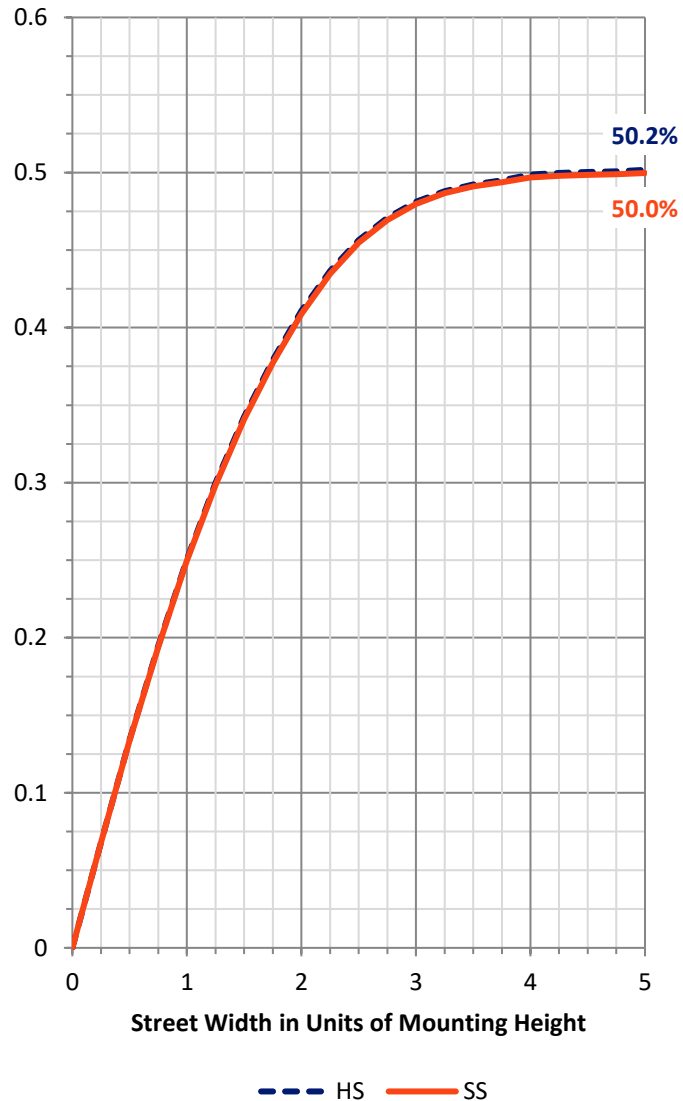
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4814.9	0.0	4814.9
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	4814.9	0.0	4814.9
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	9629.9	0.0	9629.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	89.6	0.9
10°-20°	277.9	2.9
20°-30°	496.6	5.2
30°-40°	805.0	8.4
40°-50°	1311.2	13.6
50°-60°	1999.2	20.8
60°-70°	2974.2	30.9
70°-80°	1621.0	16.8
80°-90°	55.2	0.6
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°	9629.9	100.0
0°-180°	9629.9	100.0

**Coefficient of Utilization**



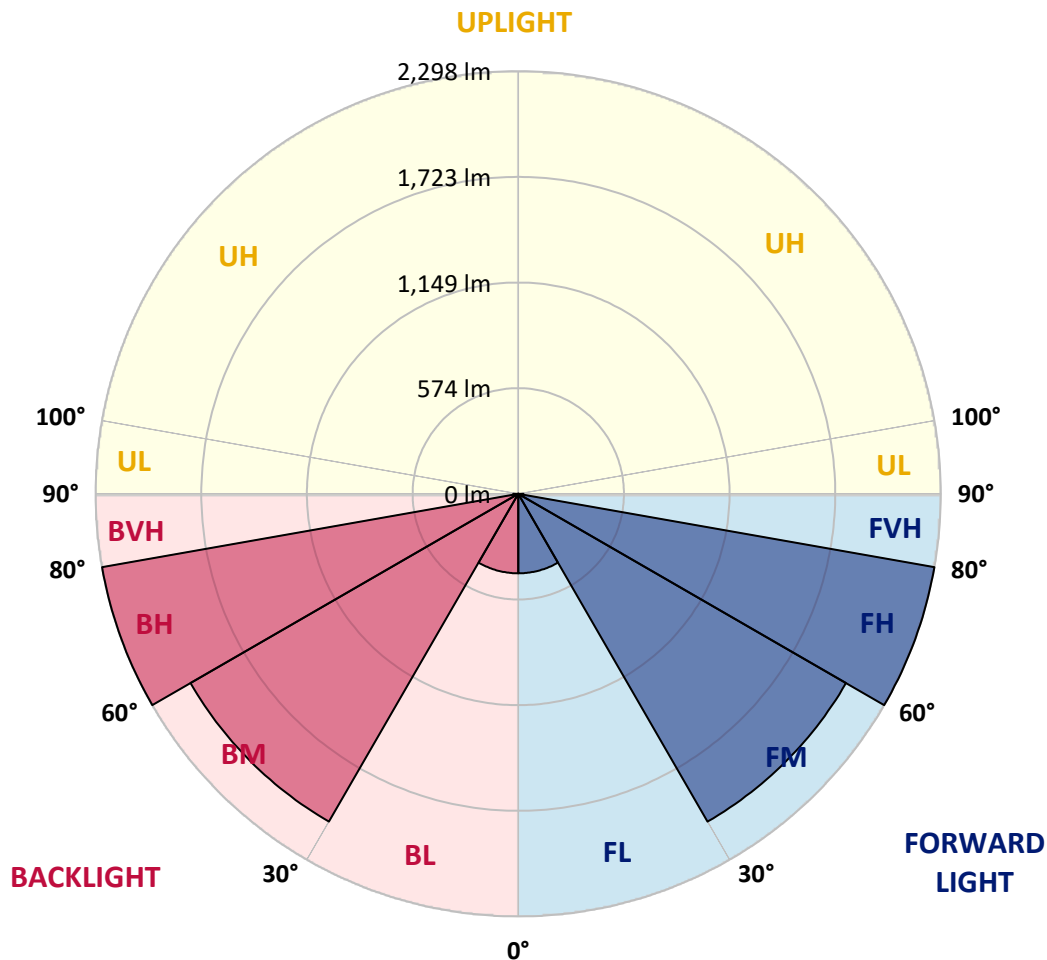
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	432.1	4.5			
FM (30°-60°)	2057.7	21.4			
FH (60°-80°)	2297.6	23.9			G2/5000
FVH (80°-90°)	27.6	0.3			G1/100
BL (0°-30°)	432.1	4.5	B1/500		
BM (30°-60°)	2057.7	21.4	B2/2500		
BH (60°-80°)	2297.6	23.9	B3/2500		G2/5000
BVH (80°-90°)	27.6	0.3			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°	922.4	922.4	922.4	922.4	922.4	922.4	922.4	922.4	922.4	922.4	922.4
2.5°	926.8	927.7	925.8	924.9	923.9	922.4	922.9	925.4	927.3	926.8	927.3
5°	934.5	935.5	934.1	933.6	931.6	931.1	931.1	933.6	935.0	934.1	934.5
7.5°	943.2	944.6	942.3	941.8	940.8	939.8	939.4	941.8	943.2	943.2	943.2
10°	951.4	952.9	951.0	949.6	948.5	948.5	947.6	949.6	951.9	951.4	951.4
12.5°	960.1	961.1	959.2	958.2	958.2	959.7	958.2	959.2	961.1	960.1	959.7
15°	970.8	971.3	970.8	972.2	974.7	979.5	975.2	974.2	975.2	972.7	972.7
17.5°	985.3	986.3	988.2	991.6	995.0	1003.7	995.9	993.5	993.5	988.7	988.7
20°	1003.2	1004.6	1007.6	1013.3	1017.7	1025.9	1018.1	1014.7	1013.3	1007.1	1007.1
22.5°	1022.0	1024.5	1028.8	1036.6	1044.3	1052.1	1044.3	1038.4	1034.1	1025.9	1025.4
25°	1043.8	1046.7	1053.5	1066.0	1076.7	1087.8	1078.6	1067.0	1058.3	1046.7	1046.2
27.5°	1074.7	1078.1	1086.3	1101.8	1115.3	1125.0	1116.3	1101.4	1089.3	1075.2	1074.7
30°	1118.3	1121.7	1131.3	1147.7	1156.9	1163.2	1157.4	1145.8	1131.3	1115.3	1115.3
32.5°	1174.3	1178.6	1189.3	1204.8	1206.7	1207.7	1205.7	1200.0	1189.3	1169.9	1170.4
35°	1245.4	1250.2	1262.3	1274.9	1272.9	1274.9	1272.0	1270.1	1262.3	1240.0	1240.0
37.5°	1332.4	1338.2	1350.7	1360.5	1355.7	1353.2	1353.7	1354.1	1349.8	1325.1	1325.1
40°	1433.5	1441.1	1450.4	1460.5	1452.3	1445.0	1449.9	1453.8	1449.9	1424.7	1424.7
42.5°	1537.4	1548.6	1558.2	1572.7	1565.9	1556.8	1563.5	1567.8	1559.6	1532.6	1534.5
45°	1652.9	1663.6	1676.2	1697.9	1693.1	1683.5	1693.1	1694.0	1680.0	1648.1	1651.5
47.5°	1772.3	1783.5	1802.4	1831.4	1829.4	1818.8	1831.4	1824.6	1806.7	1768.5	1766.1
50°	1885.5	1901.0	1930.0	1970.6	1974.5	1961.4	1978.4	1965.2	1935.3	1887.4	1886.5
52.5°	1991.9	2008.3	2054.2	2109.3	2123.4	2106.5	2129.1	2106.5	2061.5	2000.1	1994.2
55°	2103.5	2122.0	2176.6	2248.5	2276.6	2264.0	2285.3	2251.0	2187.1	2112.7	2102.6
57.5°	2235.0	2246.2	2311.4	2397.0	2444.4	2447.3	2456.9	2398.9	2321.6	2237.0	2225.4
60°	2377.7	2393.2	2464.2	2566.7	2641.6	2665.8	2655.7	2569.6	2479.7	2382.5	2367.0
62.5°	2560.4	2577.4	2662.4	2785.2	2903.6	2963.6	2924.0	2799.3	2688.1	2571.5	2551.2
65°	2711.7	2730.6	2884.4	3103.3	3319.0	3439.4	3339.8	3110.1	2910.0	2745.6	2718.5
67.5°	2602.0	2625.2	2866.4	3268.7	3804.8	4164.1	3823.2	3318.0	2925.9	2703.0	2669.7
70°	2274.2	2296.0	2577.4	3069.1	3941.6	4728.7	4023.8	3159.5	2586.5	2337.0	2303.7
72.5°	1509.8	1579.9	1864.7	2454.6	3519.5	4375.8	3554.4	2404.8	1729.8	1506.4	1457.7
75°	500.8	557.0	751.3	1272.4	2357.4	3272.5	2244.2	1126.0	595.1	428.3	405.2
77.5°	126.2	145.5	200.6	364.1	940.3	1863.2	846.5	297.4	162.0	113.2	101.1
80°	61.4	67.6	96.7	121.4	235.4	592.2	221.0	114.1	76.4	58.9	54.1
82.5°	33.8	34.3	54.6	68.7	87.5	153.2	90.9	66.7	44.0	35.8	35.8
85°	20.8	20.3	29.0	36.7	36.7	54.6	43.6	36.7	25.1	22.2	23.2
87.5°	8.2	8.2	10.7	11.6	10.1	14.0	11.1	12.1	9.6	9.2	9.6
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)