

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: P960308

Luminaire Tested: **NAV-SB1C-730-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960308
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-SB1C-730-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 26 LEDS AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7906.8 lumens
Efficiency: N/A
Efficacy: 145.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

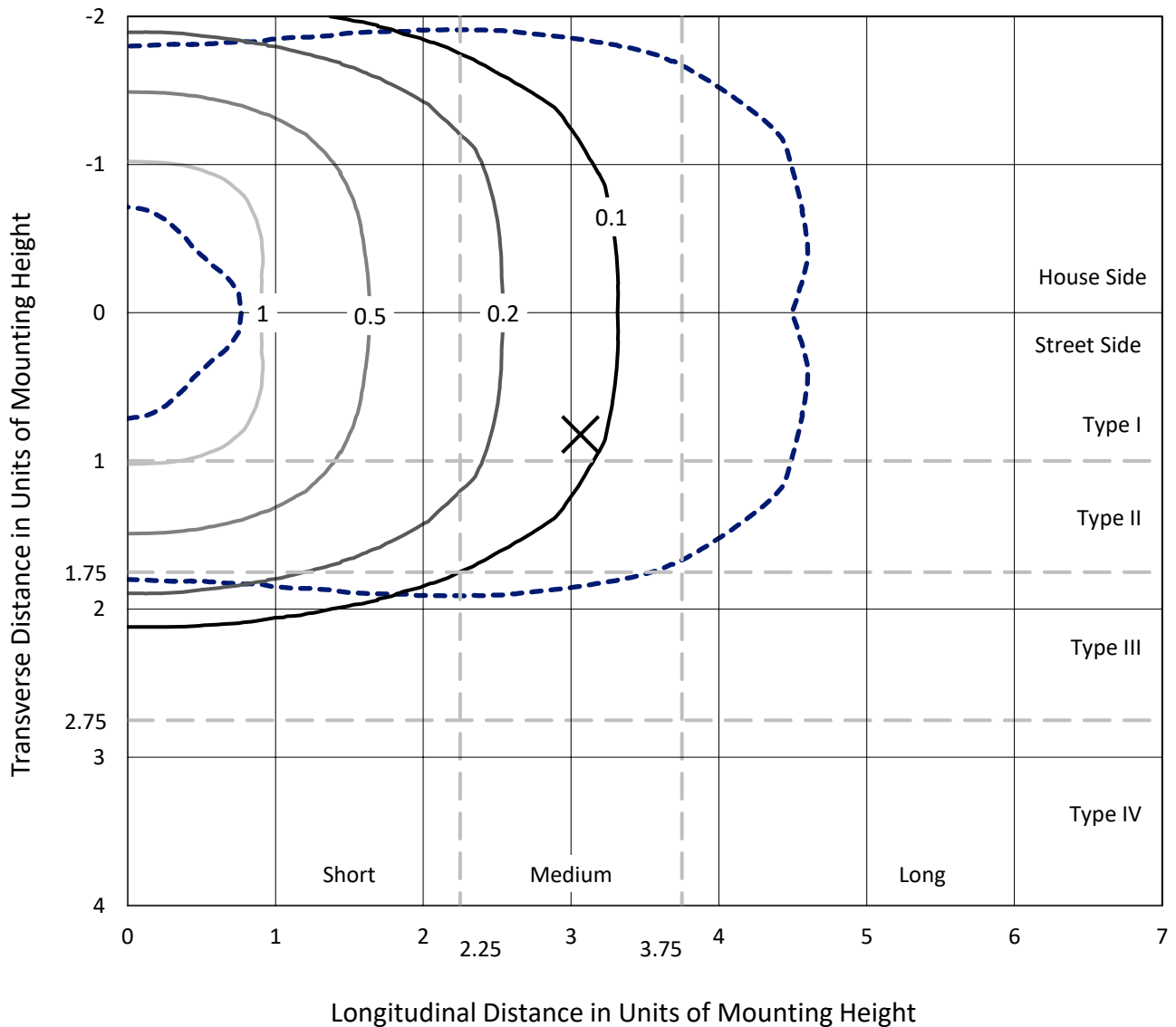
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

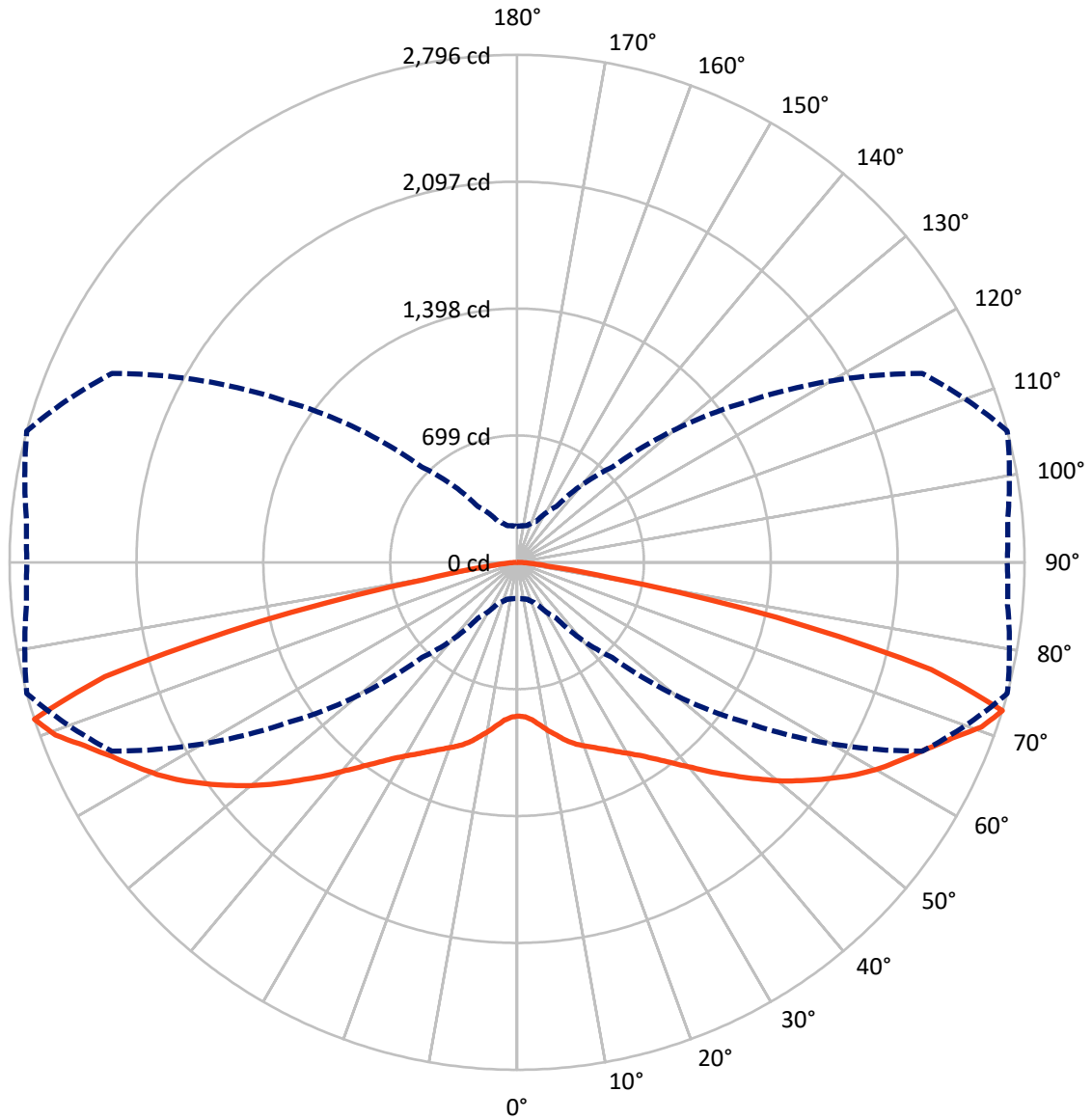
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type 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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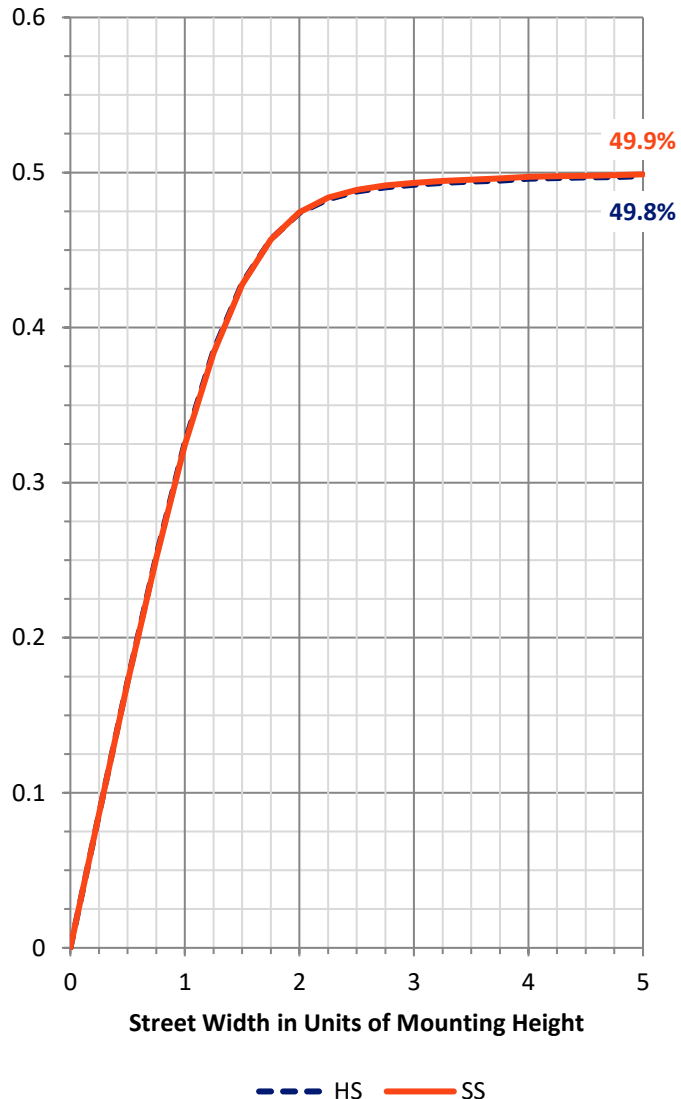
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3953.4	0.0	3953.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3953.4	0.0	3953.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	7906.8	0.0	7906.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.0	1.0
10°-20°	273.6	3.5
20°-30°	528.8	6.7
30°-40°	892.8	11.3
40°-50°	1415.9	17.9
50°-60°	1895.8	24.0
60°-70°	1804.2	22.8
70°-80°	941.4	11.9
80°-90°	71.3	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°	7906.8	100.0
0°-180°	7906.8	100.0

Coefficient of Utilization

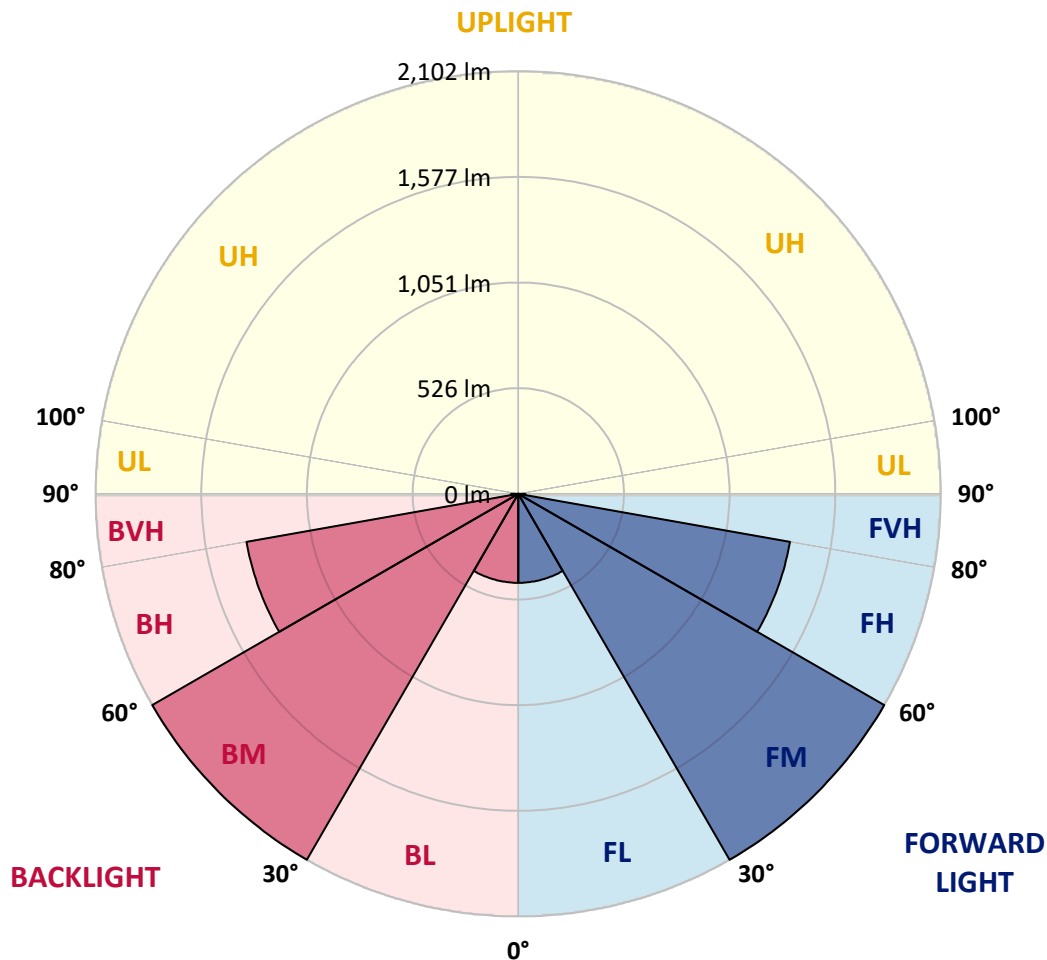


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	442.7	5.6			
FM (30°-60°)	2102.3	26.6			
FH (60°-80°)	1372.8	17.4			G1/1800
FVH (80°-90°)	35.6	0.5			G1/100
BL (0°-30°)	442.7	5.6	B1/500		
BM (30°-60°)	2102.3	26.6	B2/2500		
BH (60°-80°)	1372.8	17.4	B3/2500		G3/2500
BVH (80°-90°)	35.6	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°	847.0	847.0	847.0	847.0	847.0	847.0	847.0	847.0	847.0	847.0	847.0
2.5°	847.0	846.1	847.0	847.8	847.4	847.4	849.4	850.6	853.0	852.6	852.2
5°	841.3	840.9	844.2	847.8	850.6	855.5	861.5	865.9	871.6	872.8	872.8
7.5°	838.4	837.3	843.0	849.4	858.2	870.4	882.1	894.2	903.8	907.1	907.9
10°	840.5	840.9	848.6	860.7	874.8	891.7	908.4	929.0	942.7	945.9	949.1
12.5°	849.8	849.0	861.9	881.3	900.7	922.1	941.5	964.0	979.0	986.7	989.8
15°	866.7	865.1	883.3	911.9	940.2	965.2	981.0	1002.3	1019.8	1029.4	1033.1
17.5°	886.9	887.8	911.5	948.7	985.8	1014.1	1029.0	1040.0	1053.3	1061.7	1065.8
20°	922.5	924.0	950.7	994.8	1037.1	1069.4	1081.5	1077.5	1081.1	1087.5	1092.4
22.5°	970.1	970.9	1000.8	1048.4	1092.9	1128.3	1136.4	1119.9	1109.8	1114.2	1117.5
25°	1025.4	1030.6	1060.6	1109.4	1155.0	1188.9	1192.5	1167.5	1142.5	1143.7	1145.7
27.5°	1092.9	1097.7	1127.9	1176.4	1222.8	1252.2	1251.8	1218.4	1181.6	1172.4	1175.2
30°	1165.9	1171.2	1202.2	1252.2	1295.5	1321.3	1315.7	1275.7	1223.2	1205.8	1207.9
32.5°	1252.7	1255.9	1287.4	1337.4	1377.4	1398.0	1386.3	1337.0	1271.6	1251.8	1256.8
35°	1357.6	1362.5	1385.9	1433.2	1468.3	1485.2	1465.4	1407.3	1333.8	1311.6	1314.9
37.5°	1477.5	1474.4	1501.0	1542.9	1572.0	1582.5	1555.4	1486.5	1404.9	1378.6	1383.4
40°	1602.7	1601.0	1630.2	1670.5	1686.2	1692.7	1652.7	1577.3	1486.9	1458.6	1467.9
42.5°	1716.2	1714.9	1754.1	1798.9	1817.8	1810.6	1760.1	1673.7	1581.7	1549.4	1557.5
45°	1807.0	1805.3	1853.4	1916.3	1953.5	1941.4	1873.6	1780.3	1677.8	1644.3	1652.0
47.5°	1876.8	1877.6	1929.3	2007.2	2072.2	2076.6	1989.4	1888.9	1783.6	1745.6	1757.0
50°	1927.3	1929.7	1985.0	2071.4	2160.2	2199.3	2107.7	2000.4	1893.0	1850.1	1863.0
52.5°	1939.8	1944.2	2010.8	2112.1	2216.8	2291.4	2228.0	2107.3	1996.7	1955.9	1966.5
55°	1873.2	1882.1	1966.5	2108.9	2251.4	2352.0	2333.8	2215.9	2101.2	2059.3	2071.0
57.5°	1720.2	1732.7	1831.2	2017.3	2243.7	2393.6	2415.7	2320.1	2205.8	2165.4	2174.7
60°	1505.8	1520.8	1615.2	1818.2	2135.6	2408.9	2473.4	2421.4	2301.9	2262.8	2271.2
62.5°	1182.4	1201.8	1314.9	1553.1	1907.1	2337.4	2522.7	2513.0	2388.2	2339.5	2345.1
65°	758.6	779.1	898.2	1179.6	1602.3	2118.7	2538.1	2602.3	2479.6	2411.3	2419.8
67.5°	457.4	466.7	525.6	714.9	1171.2	1788.8	2408.0	2701.2	2586.1	2501.3	2507.8
70°	292.6	298.0	333.0	419.8	662.0	1305.1	2085.9	2719.7	2715.3	2593.8	2592.9
72.5°	198.6	200.3	209.5	248.7	374.6	741.6	1538.5	2462.2	2796.0	2712.9	2700.0
75°	145.3	154.3	169.1	176.0	212.8	370.6	881.7	1729.9	2356.4	2392.8	2304.7
77.5°	108.2	108.5	129.1	137.2	151.8	197.4	373.0	965.7	1463.0	1536.1	1370.1
80°	91.6	86.8	86.4	110.6	114.3	123.1	166.8	333.4	524.0	317.8	240.2
82.5°	76.3	71.0	64.2	86.4	77.9	75.5	72.3	135.6	166.8	82.0	69.8
85°	53.3	50.8	48.5	56.5	44.4	37.9	34.7	63.3	70.2	34.7	30.6
87.5°	23.0	23.8	24.2	25.0	18.6	13.3	13.3	17.7	17.7	13.7	10.0
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)