

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: P960246

Luminaire Tested: **NAV-SB1C-722-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960246
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-722-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 615mA LIGHTSQUARE WITH 26 LEDS AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6532.3 lumens
Efficiency: N/A
Efficacy: 120.1 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

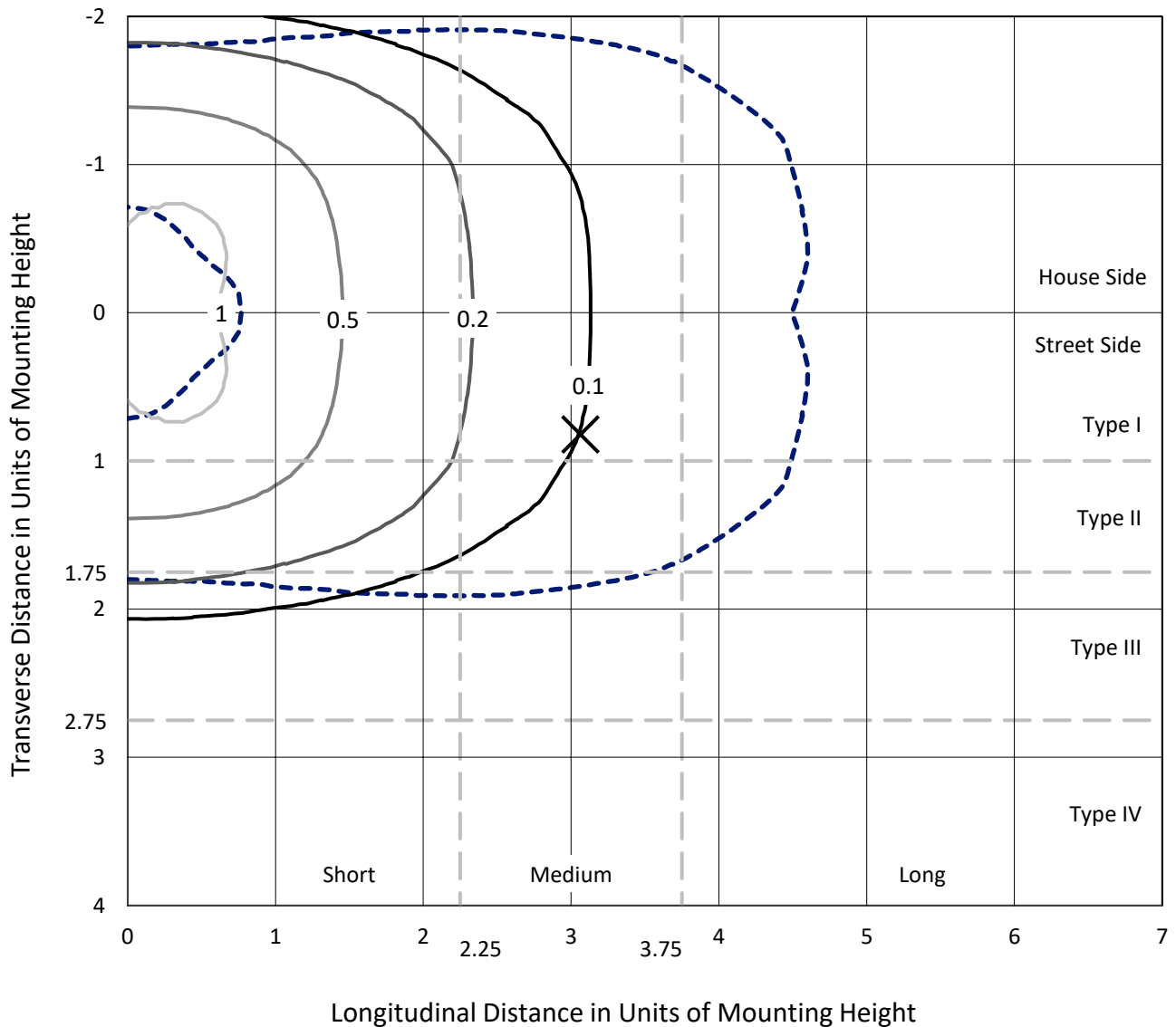
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

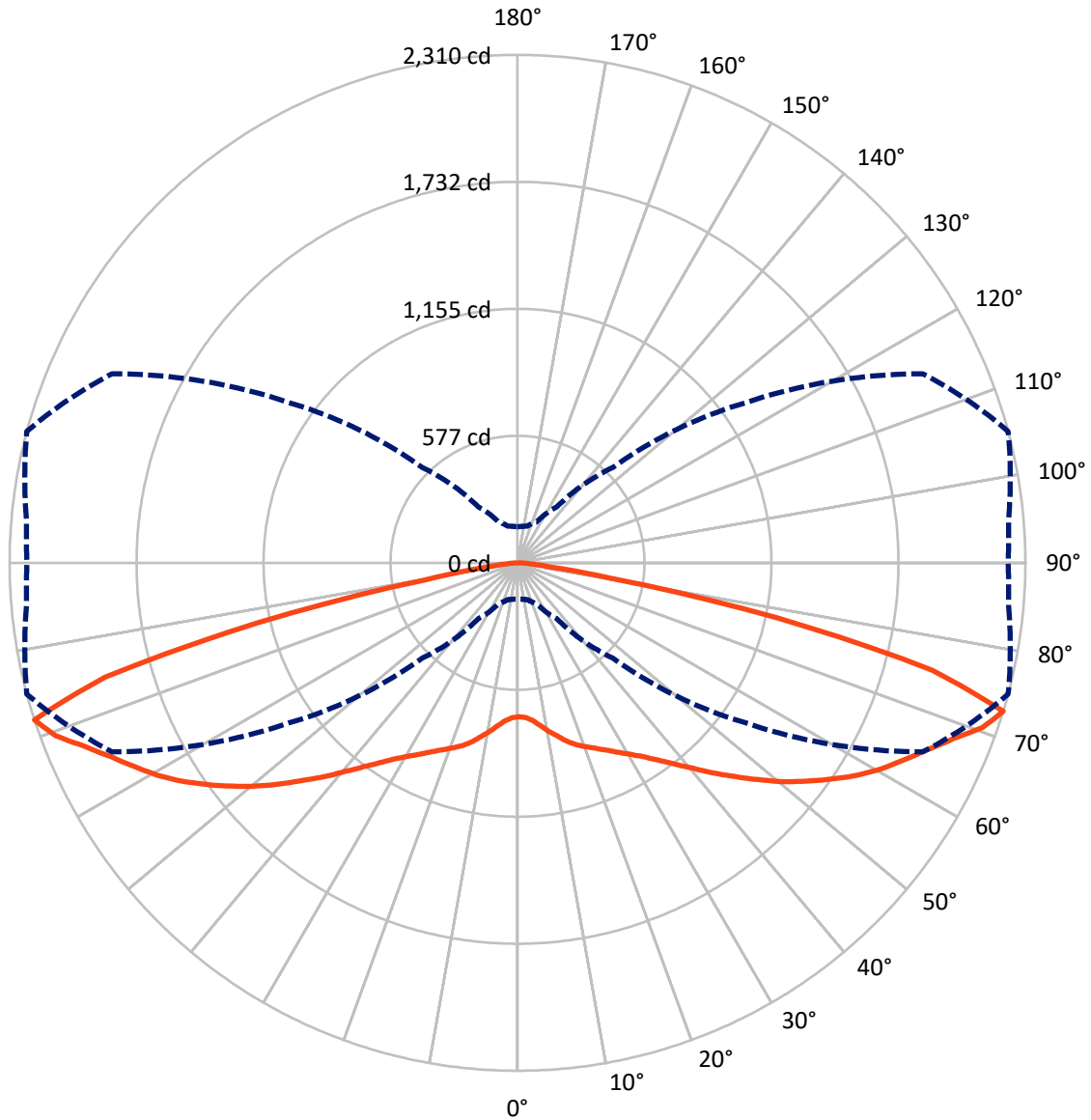
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 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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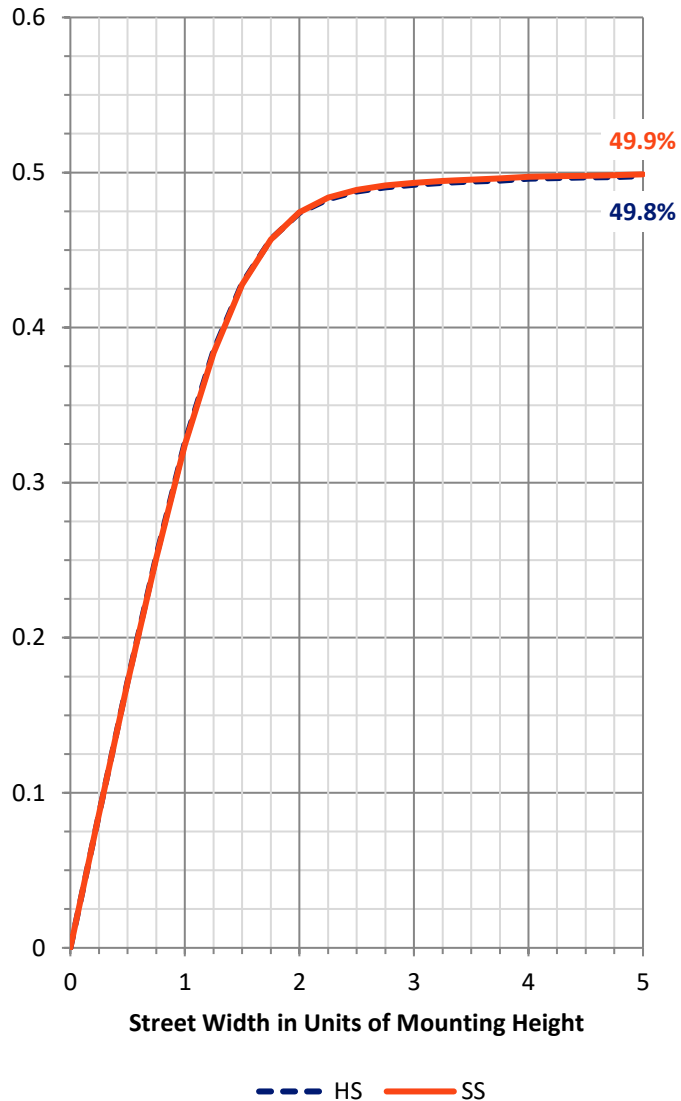
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3266.2	0.0	3266.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3266.2	0.0	3266.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	6532.3	0.0	6532.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.5	1.0
10°-20°	226.1	3.5
20°-30°	436.8	6.7
30°-40°	737.6	11.3
40°-50°	1169.8	17.9
50°-60°	1566.2	24.0
60°-70°	1490.5	22.8
70°-80°	777.8	11.9
80°-90°	58.9	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°	6532.3	100.0
0°-180°	6532.3	100.0

Coefficient of Utilization

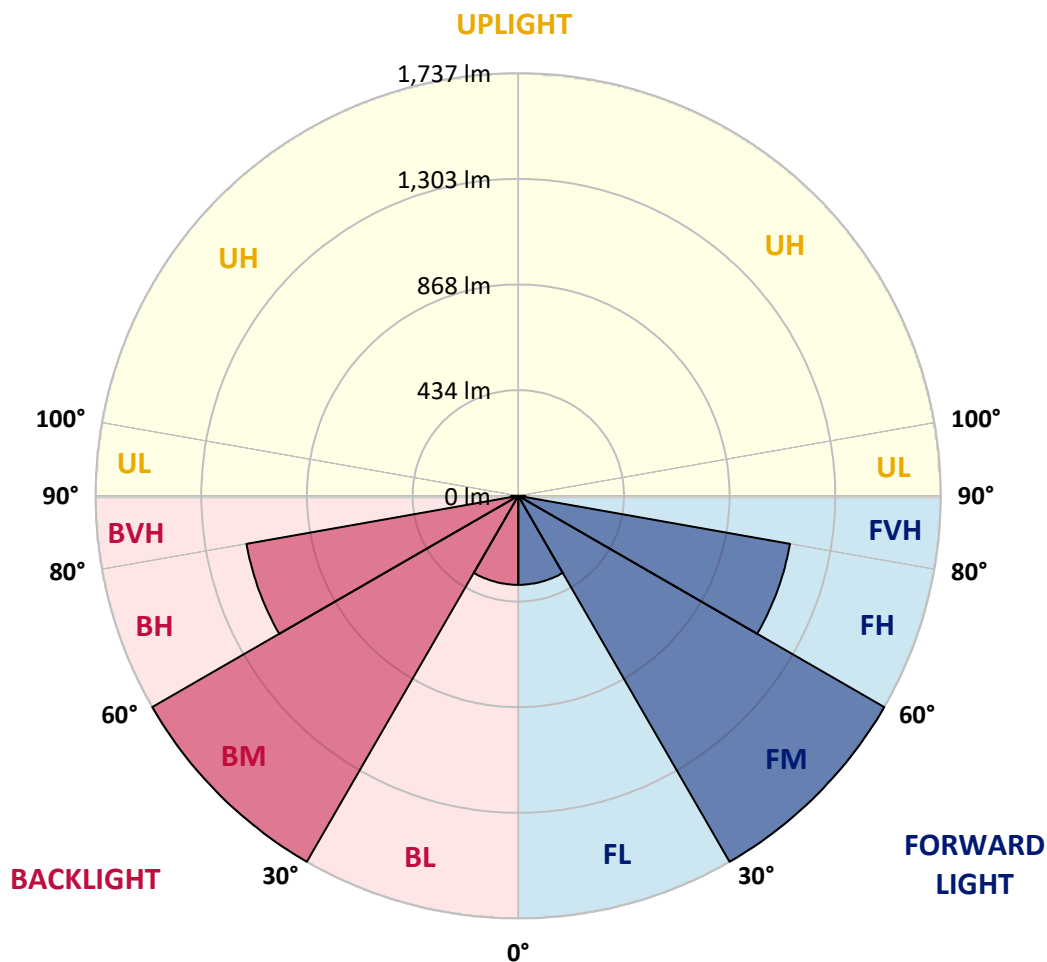


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	365.7	5.6			
FM (30°-60°)	1736.8	26.6			
FH (60°-80°)	1134.2	17.4			G1/1800
FVH (80°-90°)	29.4	0.5			G1/100
BL (0°-30°)	365.7	5.6	B1/500		
BM (30°-60°)	1736.8	26.6	B2/2500		
BH (60°-80°)	1134.2	17.4	B3/2500		G3/2500
BVH (80°-90°)	29.4	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°	699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8
2.5°	699.8	699.0	699.8	700.4	700.1	700.1	701.7	702.7	704.7	704.4	704.1
5°	695.1	694.7	697.4	700.4	702.7	706.7	711.8	715.4	720.1	721.1	721.1
7.5°	692.7	691.8	696.4	701.7	709.1	719.0	728.8	738.7	746.7	749.4	750.1
10°	694.4	694.7	701.1	711.0	722.7	736.8	750.4	767.4	778.8	781.5	784.1
12.5°	702.0	701.4	712.1	728.1	744.0	761.8	777.8	796.4	808.8	815.1	817.7
15°	716.1	714.7	729.7	753.4	776.7	797.4	810.5	828.1	842.4	850.4	853.5
17.5°	732.8	733.4	753.1	783.8	814.5	837.8	850.1	859.2	870.1	877.2	880.5
20°	762.1	763.4	785.5	821.8	856.8	883.6	893.5	890.2	893.2	898.5	902.5
22.5°	801.4	802.2	826.8	866.1	902.8	932.2	938.9	925.2	916.9	920.6	923.2
25°	847.2	851.5	876.2	916.6	954.2	982.3	985.2	964.5	943.8	944.8	946.5
27.5°	902.8	906.8	931.8	971.9	1010.2	1034.6	1034.2	1006.6	976.2	968.5	970.9
30°	963.2	967.5	993.2	1034.6	1070.3	1091.6	1086.9	1053.9	1010.5	996.2	997.9
32.5°	1034.9	1037.6	1063.6	1104.9	1138.0	1155.0	1145.3	1104.6	1050.6	1034.2	1038.2
35°	1121.7	1125.7	1145.0	1184.0	1213.0	1227.0	1210.7	1162.7	1102.0	1083.6	1086.3
37.5°	1220.7	1218.0	1240.0	1274.7	1298.8	1307.4	1285.0	1228.1	1160.6	1139.0	1143.0
40°	1324.1	1322.8	1346.7	1380.2	1393.1	1398.4	1365.4	1303.1	1228.4	1205.0	1212.7
42.5°	1417.8	1416.8	1449.1	1486.1	1501.8	1495.9	1454.2	1382.8	1306.8	1280.0	1286.7
45°	1492.8	1491.5	1531.2	1583.2	1613.9	1603.9	1547.9	1470.9	1386.1	1358.4	1364.8
47.5°	1550.5	1551.2	1593.9	1658.2	1712.0	1715.6	1643.6	1560.6	1473.5	1442.2	1451.5
50°	1592.2	1594.3	1639.9	1711.3	1784.6	1817.0	1741.3	1652.6	1563.8	1528.5	1539.2
52.5°	1602.6	1606.3	1661.3	1745.0	1831.4	1893.1	1840.7	1741.0	1649.6	1615.9	1624.6
55°	1547.5	1554.9	1624.6	1742.3	1860.1	1943.1	1928.1	1830.8	1735.9	1701.3	1710.9
57.5°	1421.2	1431.5	1512.9	1666.6	1853.7	1977.4	1995.8	1916.7	1822.3	1789.0	1796.7
60°	1244.0	1256.3	1334.4	1502.1	1764.3	1990.1	2043.4	2000.5	1901.8	1869.4	1876.4
62.5°	976.9	992.9	1086.3	1283.1	1575.5	1931.1	2084.1	2076.1	1973.1	1932.7	1937.5
65°	626.7	643.7	742.1	974.6	1323.8	1750.3	2096.8	2149.8	2048.5	1992.1	1999.2
67.5°	377.9	385.5	434.3	590.7	967.5	1477.8	1989.4	2231.6	2136.5	2066.5	2071.8
70°	241.8	246.1	275.1	346.9	546.9	1078.3	1723.3	2246.9	2243.3	2142.9	2142.2
72.5°	164.1	165.4	173.1	205.4	309.5	612.6	1271.1	2034.1	2309.9	2241.3	2230.6
75°	120.0	127.4	139.7	145.4	175.8	306.2	728.4	1429.2	1946.8	1976.8	1904.0
77.5°	89.4	89.7	106.7	113.4	125.4	163.1	308.2	797.8	1208.7	1269.1	1132.0
80°	75.7	71.8	71.3	91.4	94.4	101.7	137.8	275.5	433.0	262.5	198.4
82.5°	63.0	58.7	53.0	71.3	64.4	62.3	59.7	112.0	137.8	67.8	57.7
85°	44.1	42.0	40.0	46.7	36.7	31.4	28.7	52.4	58.0	28.7	25.3
87.5°	19.0	19.7	20.0	20.7	15.4	11.0	11.0	14.7	14.7	11.4	8.3
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)