

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: P960784

Luminaire Tested: **NAV-SB1D-722-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960784
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1D-722-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8527 lumens
Efficiency: N/A
Efficacy: 107.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

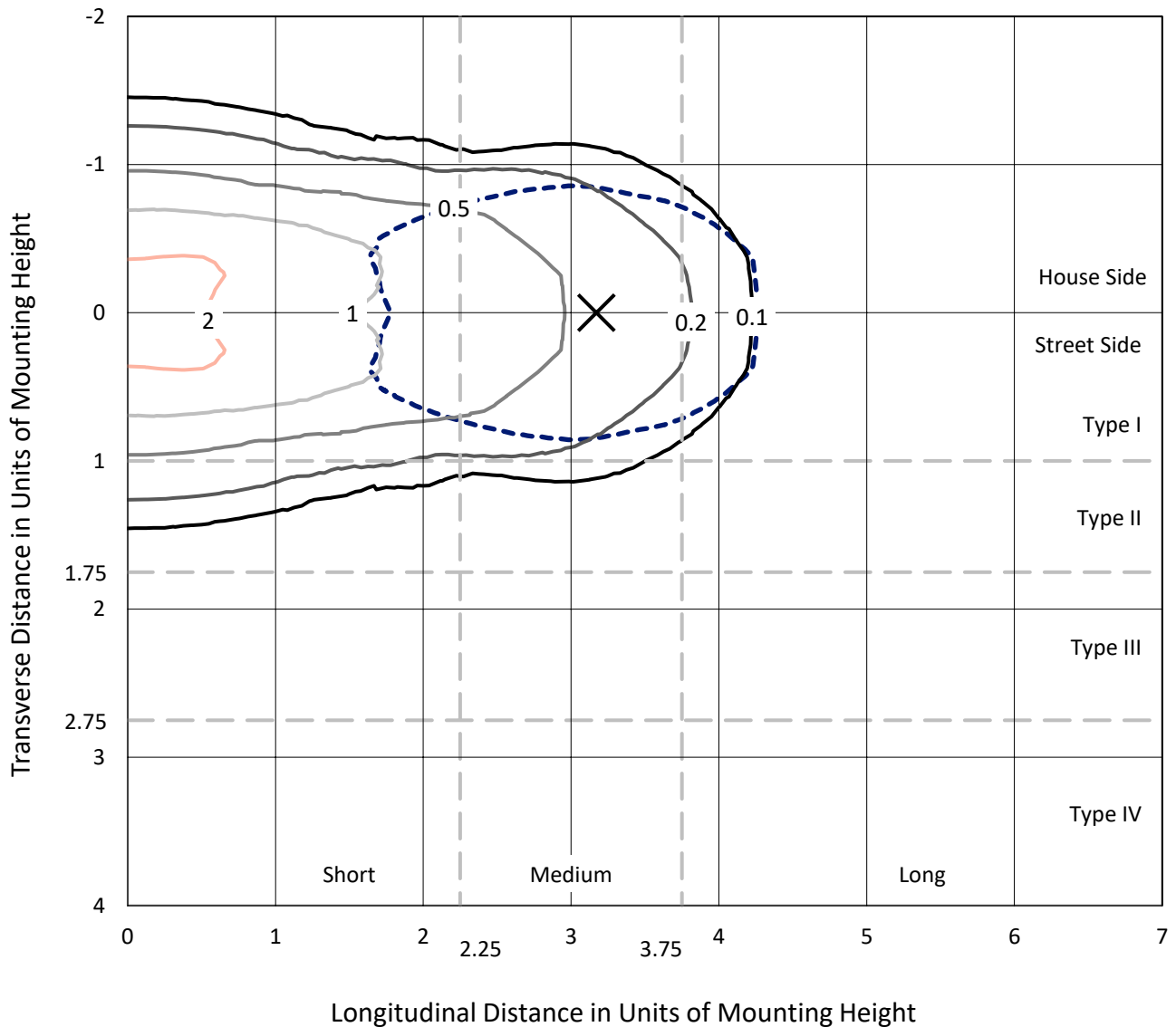
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P960784
 CATALOG NUMBER: NAV-SB1D-722-U-T1

Iso-Footcandle Lines of Horizontal Illumination

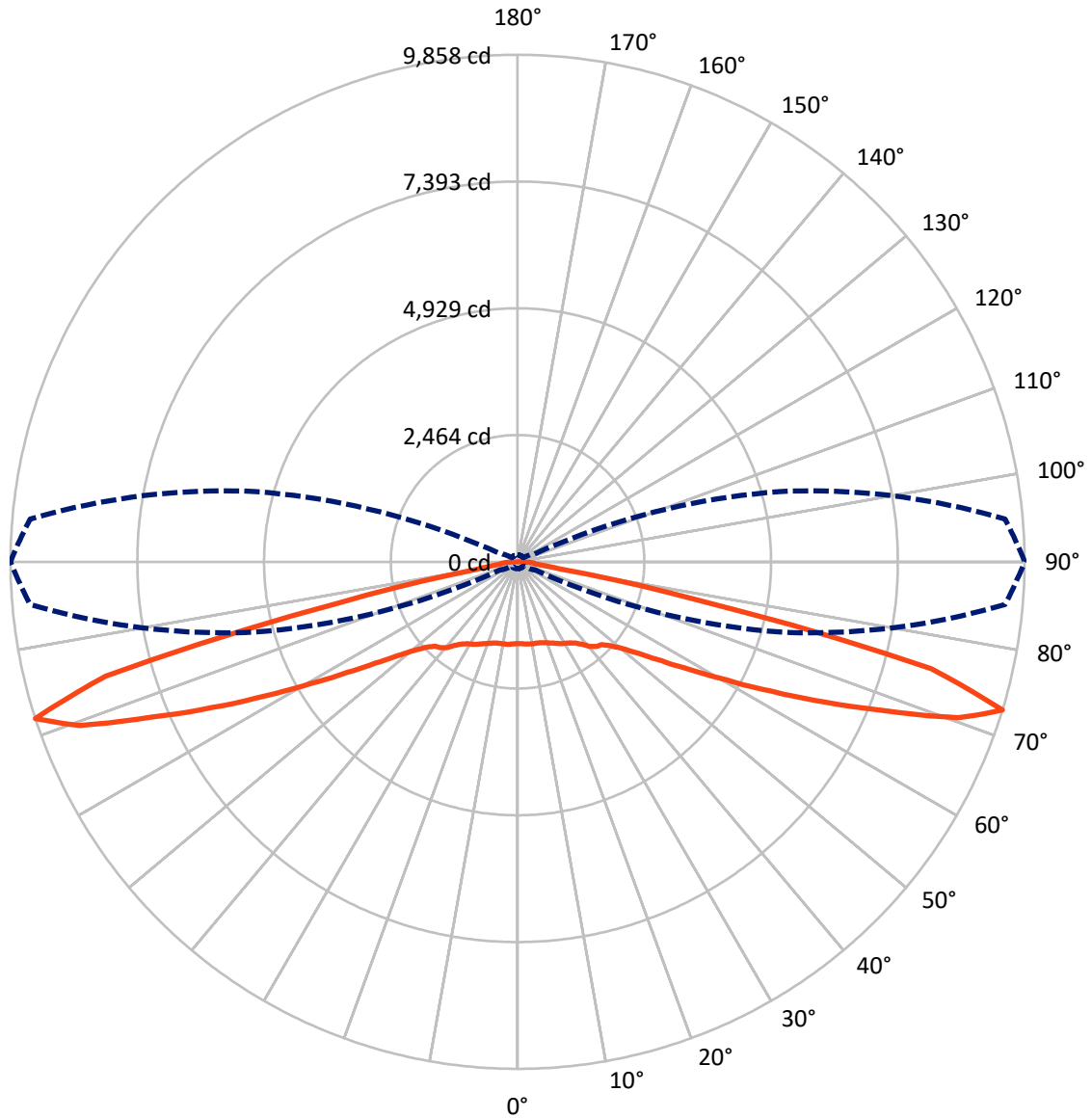
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type I - Short - N/A

REPORT NUMBER: P960784
CATALOG NUMBER: NAV-SB1D-722-U-T1

Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P960784
 CATALOG NUMBER: NAV-SB1D-722-U-T1

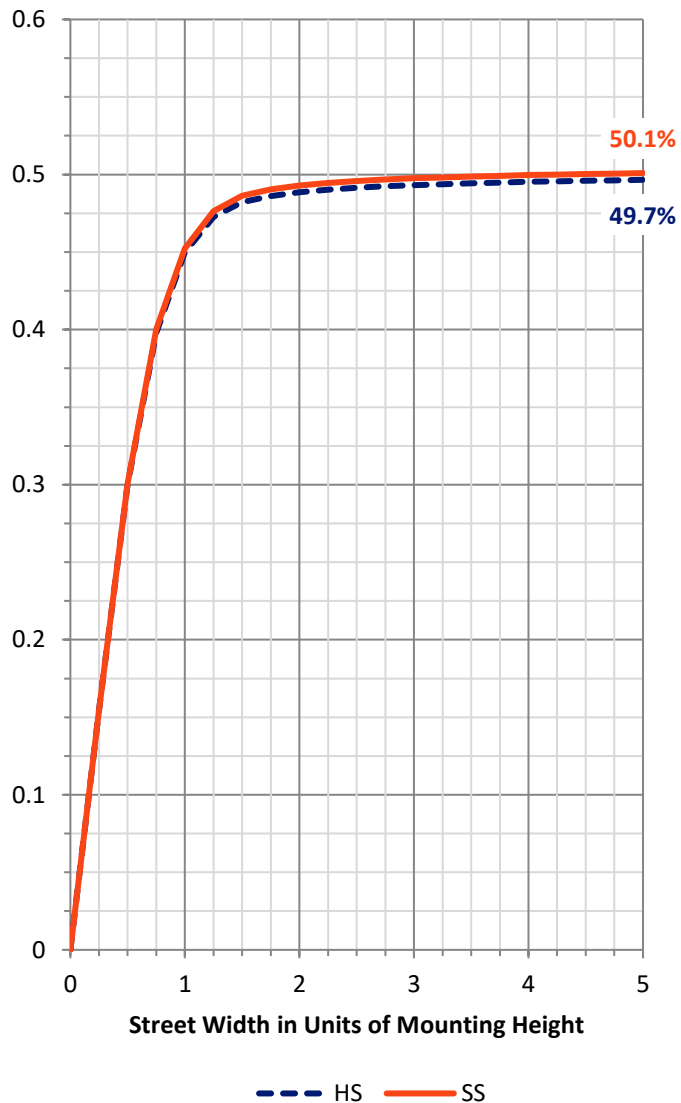
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4263.5	0.0	4263.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4263.5	0.0	4263.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	8527.0	0.0	8527.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.5	1.8
10°-20°	472.4	5.5
20°-30°	787.7	9.2
30°-40°	1083.3	12.7
40°-50°	1323.0	15.5
50°-60°	1530.2	17.9
60°-70°	1824.5	21.4
70°-80°	1273.4	14.9
80°-90°	78.2	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°	8527.0	100.0
0°-180°	8527.0	100.0

Coefficient of Utilization



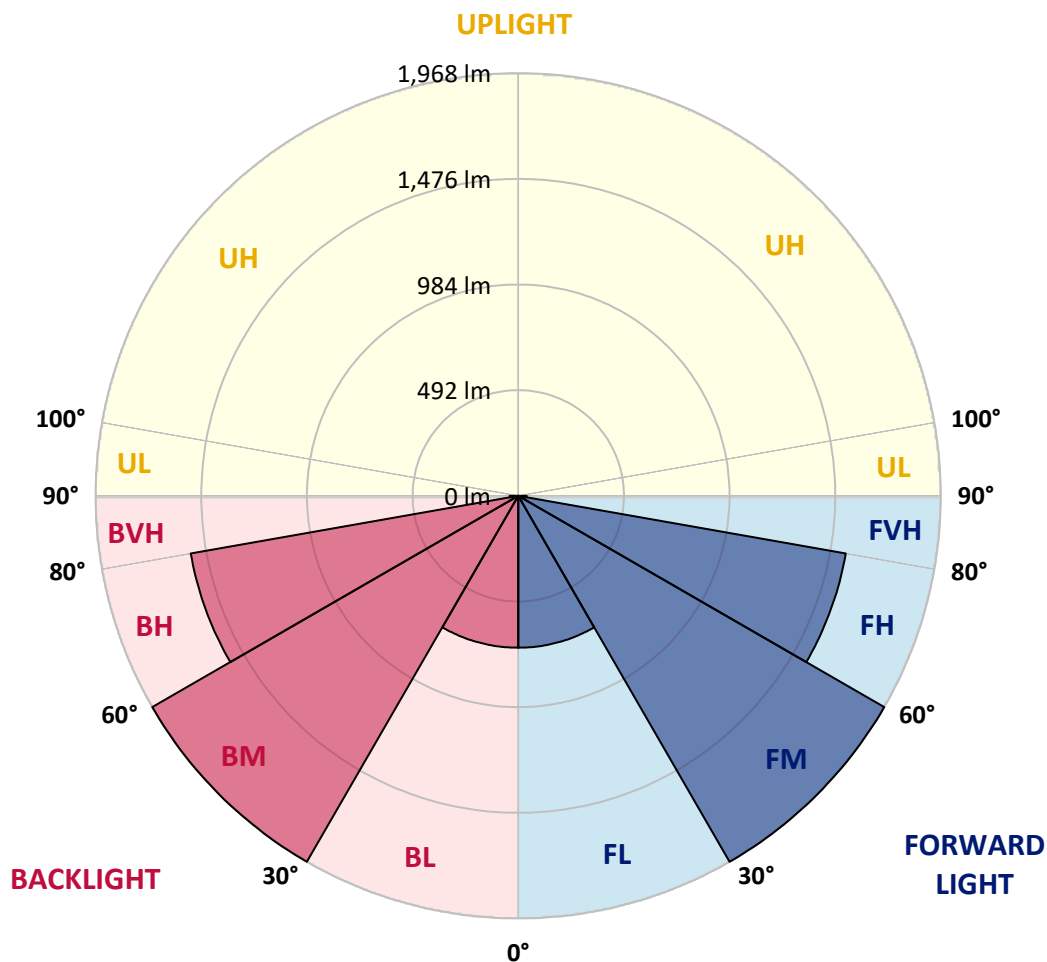
REPORT NUMBER: P960784
 CATALOG NUMBER: NAV-SB1D-722-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	707.3	8.3			
FM (30°-60°)	1968.2	23.1			
FH (60°-80°)	1548.9	18.2			G1/1800
FVH (80°-90°)	39.1	0.5			G1/100
BL (0°-30°)	707.3	8.3	B2/1000		
BM (30°-60°)	1968.2	23.1	B2/2500		
BH (60°-80°)	1548.9	18.2	B3/2500		G3/2500
BVH (80°-90°)	39.1	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 I Short



REPORT NUMBER: P960784
 CATALOG NUMBER: NAV-SB1D-722-U-T1

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4
2.5°	1594.7	1596.5	1596.5	1595.2	1598.4	1595.6	1595.6	1594.3	1595.6	1594.3	1594.3
5°	1602.9	1605.1	1606.1	1605.6	1609.7	1607.4	1607.4	1605.6	1606.1	1604.6	1604.6
7.5°	1618.3	1621.4	1623.3	1625.5	1631.4	1628.7	1626.9	1621.4	1619.2	1615.6	1615.6
10°	1623.3	1626.9	1632.8	1644.6	1658.1	1658.7	1653.2	1639.6	1629.1	1621.0	1619.6
12.5°	1607.8	1612.8	1625.0	1649.1	1679.5	1691.7	1683.0	1660.4	1640.0	1625.5	1623.3
15°	1588.3	1593.8	1612.4	1648.6	1693.5	1722.1	1721.2	1691.2	1658.7	1636.0	1632.3
17.5°	1558.0	1563.4	1590.2	1640.9	1704.4	1751.5	1764.2	1733.4	1687.7	1657.2	1652.3
20°	1503.2	1508.2	1545.3	1616.4	1708.0	1782.8	1815.9	1788.6	1731.5	1690.3	1682.6
22.5°	1432.0	1439.7	1483.3	1574.3	1699.3	1815.4	1874.7	1856.2	1782.8	1725.7	1715.2
25°	1355.9	1364.1	1414.8	1522.6	1677.2	1839.0	1944.5	1932.7	1840.8	1769.7	1755.1
27.5°	1290.2	1298.8	1354.1	1471.5	1642.8	1848.1	2013.4	2019.4	1911.0	1818.1	1802.8
30°	1238.5	1246.7	1305.5	1430.2	1598.4	1839.0	2073.7	2114.5	1982.7	1860.3	1838.0
32.5°	1181.8	1192.3	1254.4	1380.0	1545.8	1817.2	2126.3	2217.4	2065.6	1905.6	1877.5
35°	1110.3	1119.8	1185.0	1311.1	1476.9	1782.4	2170.2	2331.6	2184.3	1974.5	1943.2
37.5°	1023.3	1032.3	1097.2	1224.9	1408.5	1733.4	2203.8	2460.3	2325.7	2073.7	2032.1
40°	935.8	944.4	1005.1	1128.8	1326.5	1670.9	2215.5	2586.3	2487.9	2210.1	2165.7
42.5°	855.6	863.3	919.0	1034.1	1234.4	1591.1	2200.2	2696.0	2633.4	2305.3	2248.2
45°	781.8	788.5	837.9	945.4	1138.8	1494.1	2153.9	2813.7	2806.4	2373.3	2296.2
47.5°	697.4	704.3	755.4	859.3	1043.2	1380.4	2075.5	2929.8	3047.1	2527.3	2438.5
50°	594.6	600.4	653.0	759.9	943.9	1259.4	1966.8	3020.9	3350.7	2760.7	2649.2
52.5°	472.6	479.0	530.2	637.1	826.2	1129.3	1823.6	3080.2	3701.5	3101.5	2964.2
55°	351.7	356.2	400.6	496.7	680.2	981.1	1644.1	3096.9	4099.4	3567.4	3395.6
57.5°	255.1	257.9	286.4	358.0	515.7	795.8	1426.2	3053.5	4572.9	4164.7	3948.5
60°	206.6	207.6	216.2	247.8	358.4	586.4	1162.9	2903.9	5086.9	4934.6	4662.2
62.5°	187.6	187.6	189.8	198.4	242.4	387.0	844.3	2594.0	5637.9	5907.6	5542.8
65°	174.5	174.5	175.4	179.5	191.3	246.5	532.9	2089.2	6102.4	7047.3	6585.9
67.5°	162.7	163.2	162.7	164.0	170.9	182.1	309.0	1442.9	6352.5	8228.3	7730.2
70°	150.5	151.4	149.1	149.1	154.6	155.0	193.5	791.2	6145.0	9218.0	9087.0
72.5°	135.9	137.4	133.7	132.7	136.8	135.1	145.4	379.8	5275.9	9513.4	9857.8
75°	123.3	125.0	117.0	114.7	114.7	113.3	118.3	194.9	3424.2	7760.6	8300.8
77.5°	111.9	115.5	102.4	95.1	93.4	89.3	96.6	119.2	1497.7	3643.5	3567.8
80°	92.5	97.5	84.3	75.6	72.5	68.0	76.2	83.4	445.5	846.0	810.3
82.5°	68.9	71.1	59.9	53.9	51.2	48.1	57.1	58.0	145.0	299.5	338.6
85°	44.0	44.9	36.7	31.7	30.3	29.0	36.3	31.7	55.2	220.3	319.9
87.5°	15.4	17.6	14.0	12.7	13.6	11.4	16.8	9.5	15.4	155.4	192.6
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)