

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: P959746

Luminaire Tested: **NAV-SB1B-727-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959746
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1B-727-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5611.9 lumens
Efficiency: N/A
Efficacy: 141.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B2 - U0 - G1

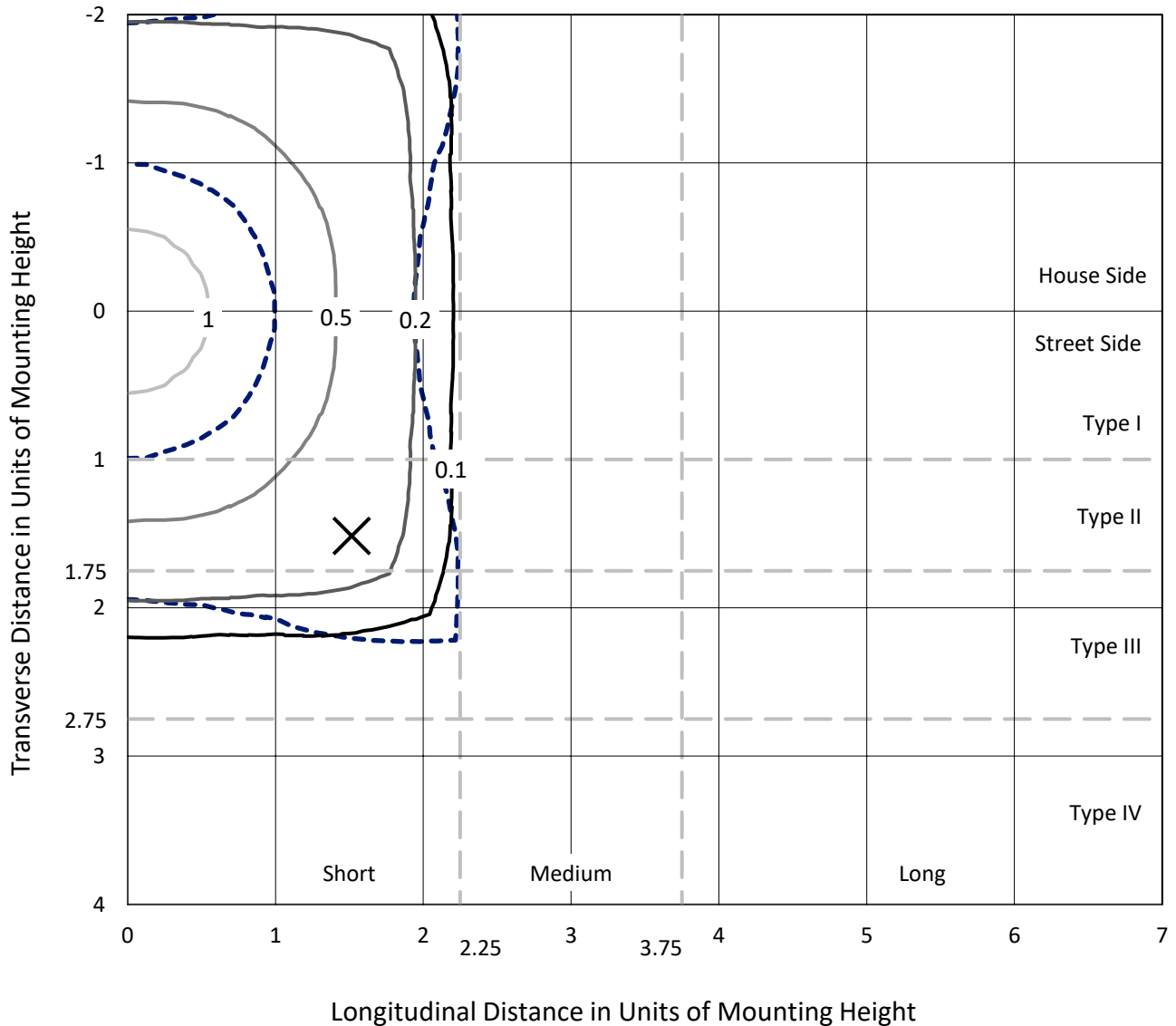
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

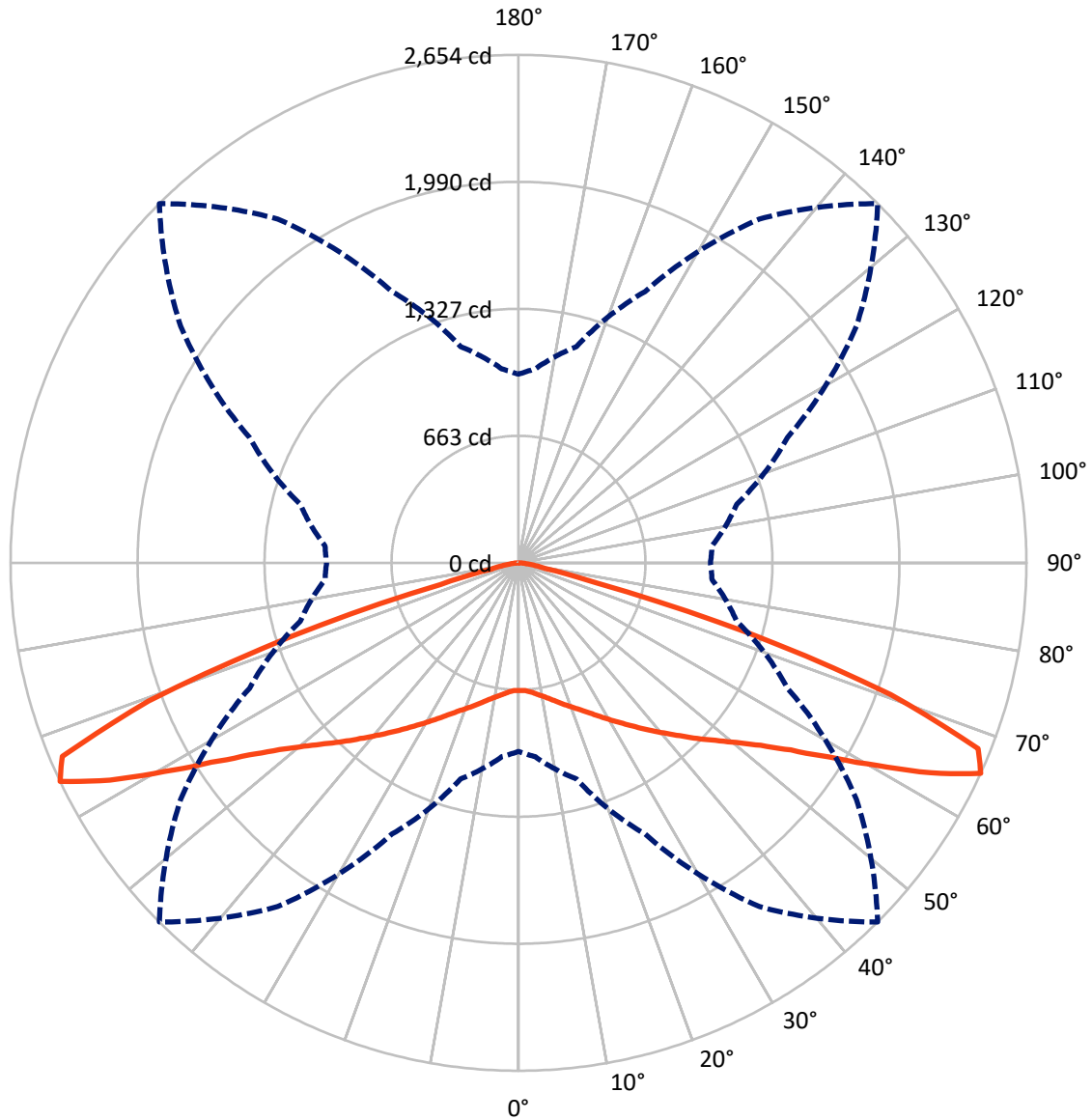
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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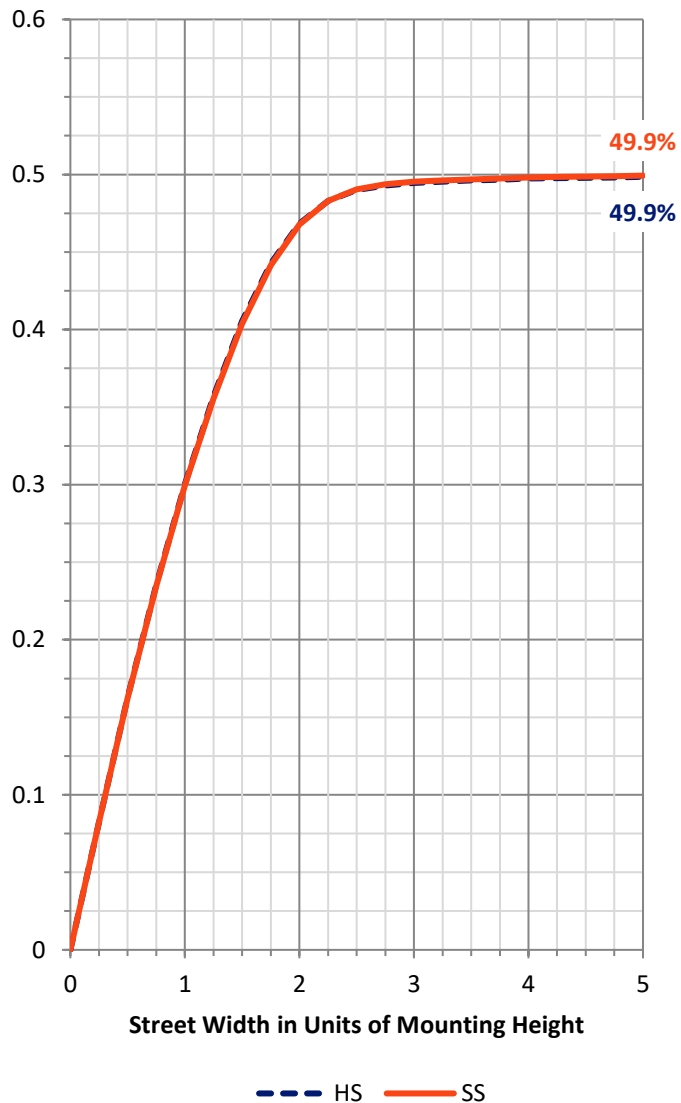
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2805.9	0.0	2805.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2805.9	0.0	2805.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	5611.9	0.0	5611.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.9	1.2
10°-20°	215.1	3.8
20°-30°	406.1	7.2
30°-40°	665.0	11.8
40°-50°	1031.0	18.4
50°-60°	1523.0	27.1
60°-70°	1449.8	25.8
70°-80°	233.9	4.2
80°-90°	22.0	0.4
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°	5611.9	100.0
0°-180°	5611.9	100.0

Coefficient of Utilization



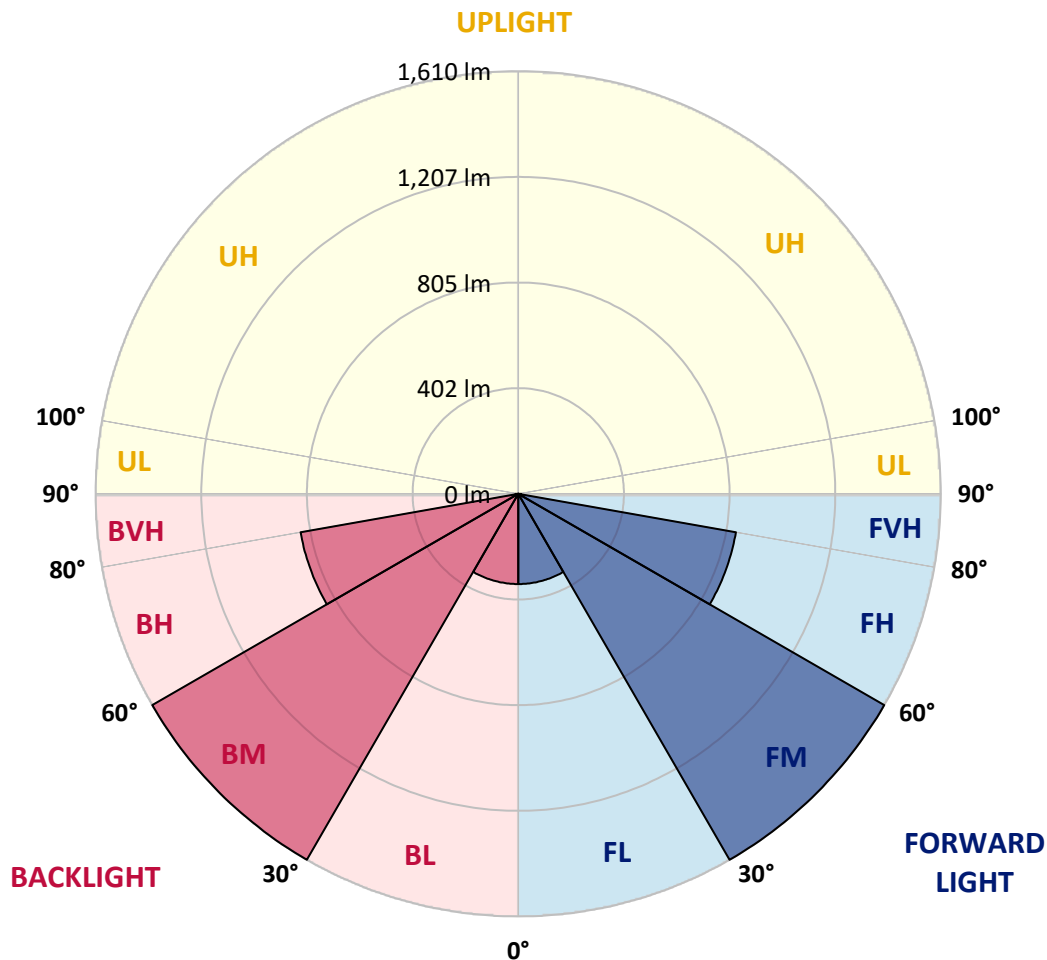
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	343.5	6.1			
FM (30°-60°)	1609.5	28.7			
FH (60°-80°)	841.9	15.0			G1/1800
FVH (80°-90°)	11.0	0.2			G1/100
BL (0°-30°)	343.5	6.1	B1/500		
BM (30°-60°)	1609.5	28.7	B2/2500		
BH (60°-80°)	841.9	15.0	B2/1000		G1/1800
BVH (80°-90°)	11.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	667.9	667.9	667.9	667.9	667.9	667.9	667.9	667.9	667.9	667.9	667.9
2.5°	672.4	670.1	671.8	670.5	669.3	668.2	668.7	670.7	671.6	671.8	671.8
5°	681.4	679.4	680.3	680.3	678.2	677.7	678.0	679.4	681.1	681.1	681.1
7.5°	696.0	694.0	696.0	694.9	693.2	692.7	692.4	693.5	696.0	696.0	695.2
10°	713.8	711.6	712.7	712.1	710.1	709.3	709.0	710.6	712.9	712.7	712.1
12.5°	733.2	730.6	732.1	730.4	729.8	729.0	729.0	728.7	730.1	729.0	729.5
15°	754.9	753.2	753.8	752.7	753.5	752.9	750.6	749.5	750.1	748.4	748.7
17.5°	780.5	776.5	778.5	778.0	778.0	779.1	775.4	774.0	775.1	773.5	774.9
20°	810.1	806.2	807.0	805.9	804.4	805.5	801.0	802.2	803.0	801.9	804.4
22.5°	842.4	837.3	837.1	837.6	834.6	834.9	831.8	834.6	836.2	833.1	836.2
25°	875.7	870.3	874.0	872.6	868.6	869.5	867.3	870.0	871.5	867.5	872.0
27.5°	910.8	907.2	910.6	911.4	906.6	910.0	906.6	909.2	910.6	904.7	909.2
30°	951.9	948.3	951.4	953.7	948.0	953.4	950.6	952.2	952.5	945.5	949.8
32.5°	996.7	991.1	999.0	1000.1	993.9	1000.4	996.7	999.0	1000.4	990.9	997.3
35°	1051.3	1044.3	1053.3	1052.0	1046.5	1052.0	1048.6	1052.0	1055.3	1043.8	1050.8
37.5°	1110.2	1102.9	1112.4	1110.0	1104.8	1108.5	1106.6	1108.8	1114.2	1101.8	1109.4
40°	1175.0	1165.9	1179.0	1174.4	1169.6	1169.0	1170.1	1171.6	1178.6	1164.8	1169.3
42.5°	1244.2	1234.6	1254.1	1247.0	1240.2	1235.7	1239.4	1242.3	1249.1	1233.5	1241.7
45°	1323.4	1312.4	1337.7	1329.2	1318.6	1309.2	1315.2	1319.4	1329.2	1310.7	1320.3
47.5°	1410.6	1398.2	1425.3	1422.7	1405.3	1385.0	1398.5	1410.6	1418.0	1395.4	1403.0
50°	1496.0	1486.4	1521.8	1525.0	1503.6	1475.1	1493.9	1512.3	1514.2	1484.7	1488.3
52.5°	1575.9	1566.3	1617.9	1637.3	1618.2	1584.3	1604.3	1622.9	1608.0	1569.7	1570.8
55°	1639.8	1631.9	1697.5	1747.6	1754.2	1726.3	1738.1	1737.6	1688.6	1629.6	1631.7
57.5°	1655.3	1654.1	1737.0	1843.2	1910.7	1914.1	1890.7	1831.1	1725.4	1646.3	1641.2
60°	1585.0	1591.9	1705.7	1893.0	2073.2	2148.1	2046.9	1876.7	1683.5	1573.7	1560.7
62.5°	1374.3	1392.9	1530.0	1832.1	2204.4	2417.3	2172.3	1807.4	1511.2	1367.9	1359.4
65°	984.9	1017.3	1168.8	1563.5	2192.6	2653.7	2154.2	1550.8	1180.1	1014.7	1002.7
67.5°	446.8	479.8	608.4	1070.5	1905.9	2589.6	1901.4	1081.8	638.9	481.4	474.5
70°	162.0	167.5	208.9	428.6	1218.0	2063.3	1270.2	431.6	222.1	178.6	176.3
72.5°	98.0	98.8	107.5	153.4	423.2	1252.7	441.2	158.6	109.8	97.4	99.1
75°	62.2	61.7	76.6	93.8	150.1	422.6	157.4	93.8	76.3	69.6	70.1
77.5°	44.8	46.2	54.9	70.1	94.6	143.3	92.9	67.0	54.9	45.1	45.9
80°	33.5	34.3	40.0	54.6	66.4	89.3	59.1	49.5	41.4	28.2	29.0
82.5°	24.2	24.2	26.1	39.7	40.6	48.2	32.1	35.0	27.3	20.0	20.0
85°	14.3	14.0	16.3	23.7	21.1	17.7	14.7	21.4	17.2	12.4	12.1
87.5°	5.0	5.3	5.0	6.8	5.6	4.8	4.5	5.9	4.8	4.2	3.9
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)