

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: P960815

Luminaire Tested: **NAV-SB1D-727-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960815
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-727-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9573.5 lumens
Efficiency: N/A
Efficacy: 120.3 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

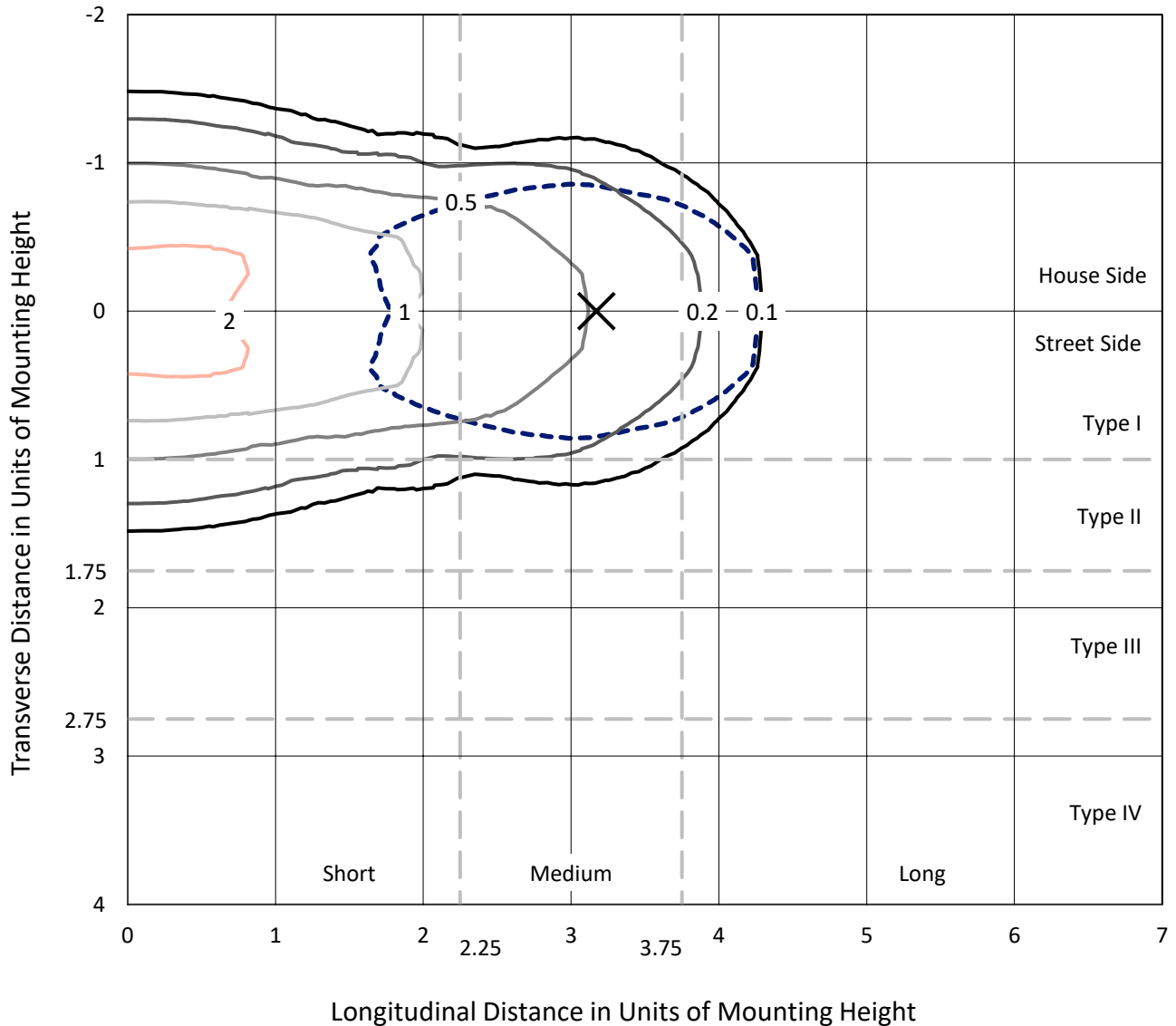
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

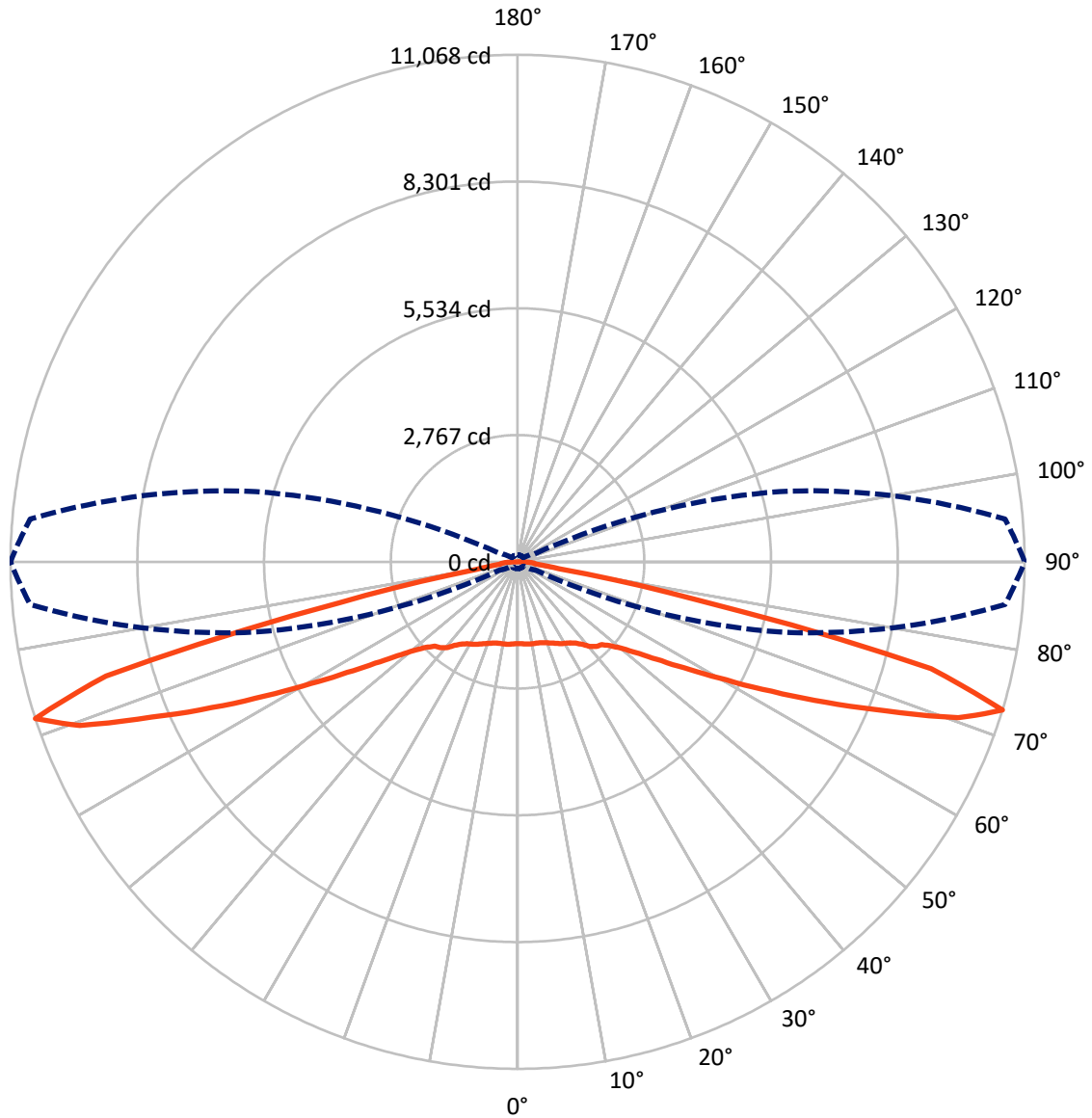
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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

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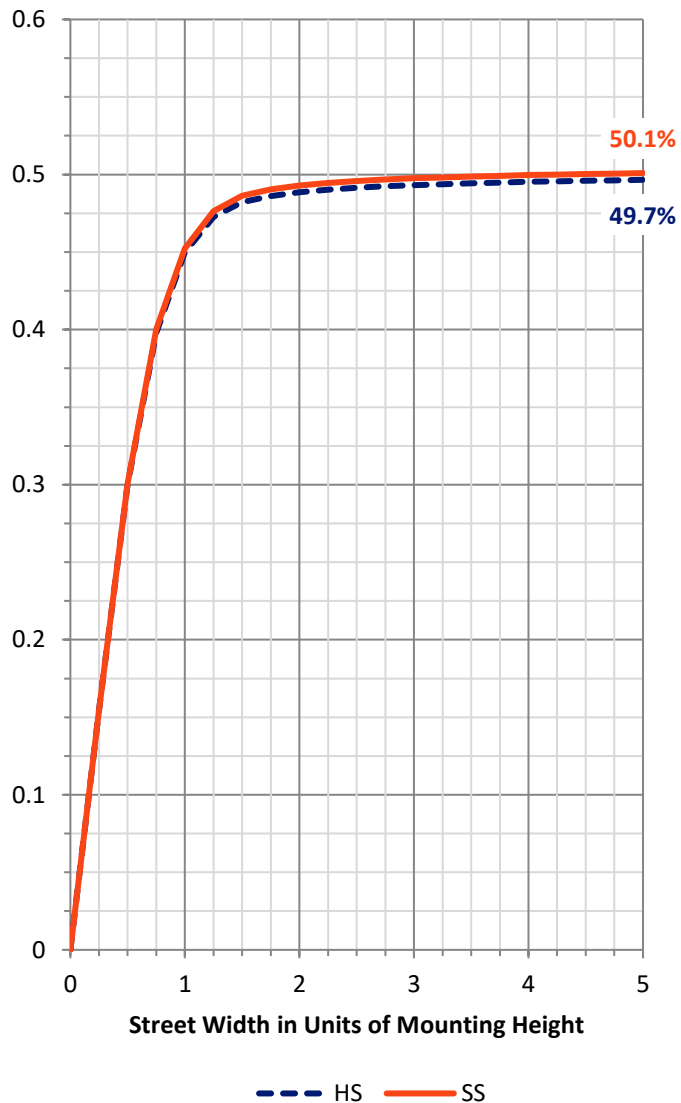
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4786.7	0.0	4786.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4786.7	0.0	4786.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	9573.5	0.0	9573.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.5	1.8
10°-20°	530.4	5.5
20°-30°	884.3	9.2
30°-40°	1216.2	12.7
40°-50°	1485.3	15.5
50°-60°	1717.9	17.9
60°-70°	2048.4	21.4
70°-80°	1429.6	14.9
80°-90°	87.8	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°	9573.5	100.0
0°-180°	9573.5	100.0

Coefficient of Utilization



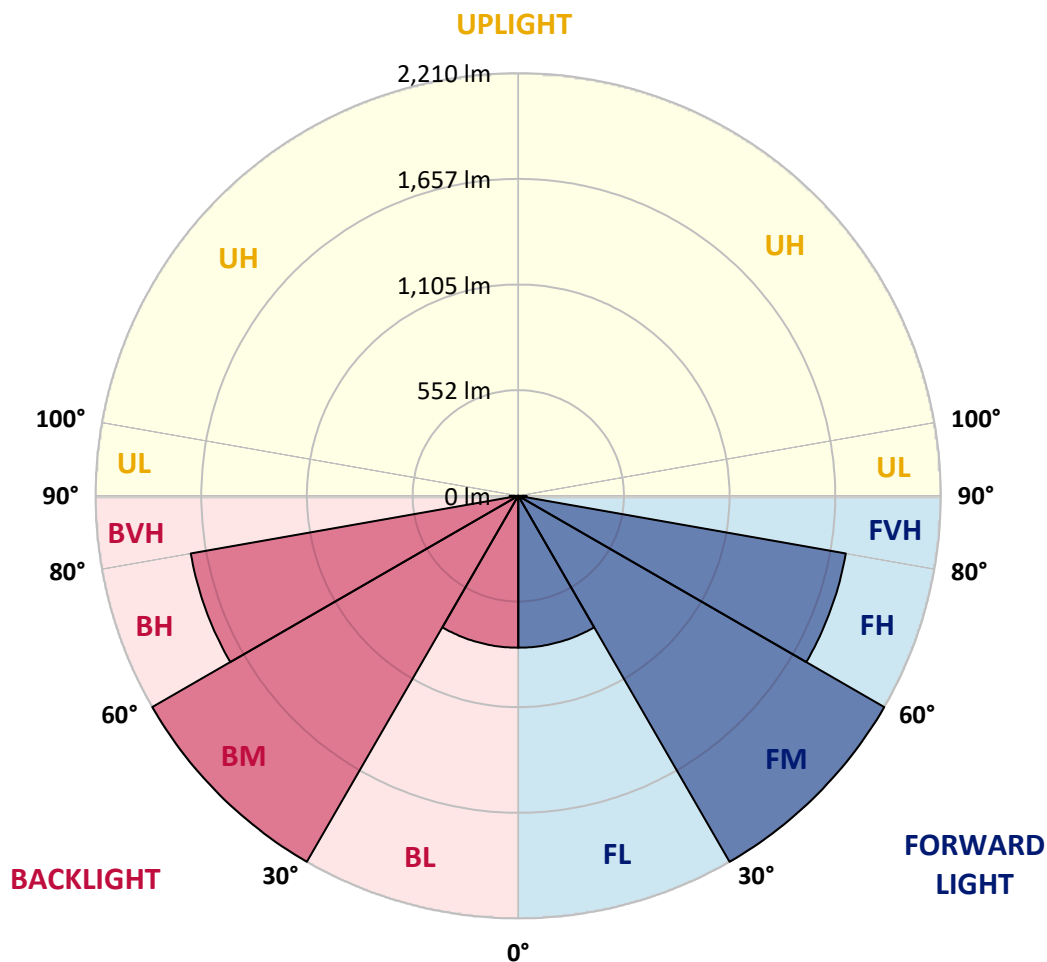
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	794.1	8.3			
FM (30°-60°)	2209.8	23.1			
FH (60°-80°)	1739.0	18.2			G1/1800
FVH (80°-90°)	43.9	0.5			G1/100
BL (0°-30°)	794.1	8.3	B2/1000		
BM (30°-60°)	2209.8	23.1	B2/2500		
BH (60°-80°)	1739.0	18.2	B3/2500		G3/2500
BVH (80°-90°)	43.9	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1788.9	1788.9	1788.9	1788.9	1788.9	1788.9	1788.9	1788.9	1788.9	1788.9	1788.9
2.5°	1790.5	1792.5	1792.5	1791.0	1794.5	1791.5	1791.5	1790.0	1791.5	1790.0	1790.0
5°	1799.6	1802.2	1803.2	1802.7	1807.2	1804.7	1804.7	1802.7	1803.2	1801.6	1801.6
7.5°	1816.9	1820.5	1822.4	1825.0	1831.7	1828.6	1826.6	1820.5	1817.9	1813.8	1813.8
10°	1822.4	1826.6	1833.2	1846.4	1861.7	1862.2	1856.1	1840.8	1829.1	1820.0	1818.5
12.5°	1805.2	1810.8	1824.5	1851.5	1885.6	1899.3	1889.7	1864.2	1841.3	1825.0	1822.4
15°	1783.3	1789.4	1810.3	1850.9	1901.4	1933.4	1932.4	1898.8	1862.2	1836.7	1832.7
17.5°	1749.3	1755.3	1785.3	1842.3	1913.6	1966.5	1980.7	1946.2	1894.7	1860.7	1855.0
20°	1687.7	1693.3	1735.0	1814.9	1917.7	2001.6	2038.7	2008.2	1944.1	1897.8	1889.2
22.5°	1607.8	1616.4	1665.3	1767.5	1907.9	2038.2	2104.8	2084.0	2001.6	1937.5	1925.8
25°	1522.3	1531.5	1588.4	1709.5	1883.0	2064.7	2183.2	2170.0	2066.7	1986.9	1970.6
27.5°	1448.5	1458.2	1520.3	1652.1	1844.4	2074.8	2260.5	2267.2	2145.5	2041.3	2024.0
30°	1390.5	1399.6	1465.9	1605.8	1794.5	2064.7	2328.2	2374.0	2226.0	2088.5	2063.6
32.5°	1327.0	1338.6	1408.4	1549.3	1735.5	2040.3	2387.2	2489.5	2319.1	2139.5	2107.9
35°	1246.5	1257.3	1330.4	1471.9	1658.1	2001.1	2436.6	2617.7	2452.4	2216.8	2181.7
37.5°	1148.8	1159.1	1231.7	1375.2	1581.4	1946.2	2474.2	2762.3	2611.1	2328.2	2281.4
40°	1050.6	1060.4	1128.5	1267.4	1489.2	1876.0	2487.5	2903.6	2793.2	2481.4	2431.5
42.5°	960.6	969.2	1031.9	1161.0	1385.9	1786.4	2470.1	3026.8	2956.6	2588.2	2524.1
45°	877.7	885.3	940.7	1061.4	1278.6	1677.5	2418.3	3159.0	3151.0	2664.6	2578.1
47.5°	783.0	790.7	848.2	964.6	1171.3	1549.8	2330.2	3289.3	3421.1	2837.5	2737.8
50°	667.6	674.1	733.2	853.2	1059.8	1413.9	2208.2	3391.6	3762.0	3099.6	2974.3
52.5°	530.6	537.8	595.3	715.3	927.5	1267.9	2047.3	3458.2	4155.8	3482.1	3328.0
55°	394.8	400.0	449.8	557.6	763.7	1101.6	1845.9	3477.1	4602.6	4005.2	3812.4
57.5°	286.5	289.5	321.5	401.9	579.0	893.4	1601.2	3428.2	5134.2	4675.7	4433.1
60°	232.0	233.0	242.7	278.3	402.4	658.4	1305.5	3260.3	5711.2	5540.2	5234.5
62.5°	210.6	210.6	213.2	222.8	272.2	434.5	947.9	2912.3	6329.9	6632.6	6223.0
65°	195.9	195.9	196.9	201.5	214.7	276.8	598.3	2345.5	6851.4	7912.2	7394.2
67.5°	182.7	183.2	182.7	184.2	191.8	204.5	347.0	1620.0	7132.3	9238.1	8679.0
70°	168.9	169.9	167.4	167.4	173.5	174.0	217.3	888.4	6899.2	10349.3	10202.2
72.5°	152.6	154.2	150.1	149.0	153.6	151.6	163.3	426.4	5923.4	10681.0	11067.7
75°	138.4	140.4	131.3	128.7	128.7	127.2	132.8	218.7	3844.5	8713.0	9319.5
77.5°	125.7	129.8	115.0	106.8	104.9	100.2	108.3	133.8	1681.5	4090.7	4005.7
80°	103.8	109.4	94.6	85.0	81.4	76.4	85.5	93.6	500.1	949.9	909.7
82.5°	77.3	79.8	67.1	60.6	57.5	53.9	64.1	65.1	162.8	336.3	380.1
85°	49.3	50.3	41.2	35.6	34.1	32.6	40.7	35.6	62.1	247.2	359.2
87.5°	17.3	19.9	15.8	14.2	15.3	12.7	18.9	10.7	17.3	174.6	216.3
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)