

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: P961838

Luminaire Tested: **NAV-SB2B-722-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961838
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-SB2B-722-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9433.1 lumens
Efficiency: N/A
Efficacy: 127.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

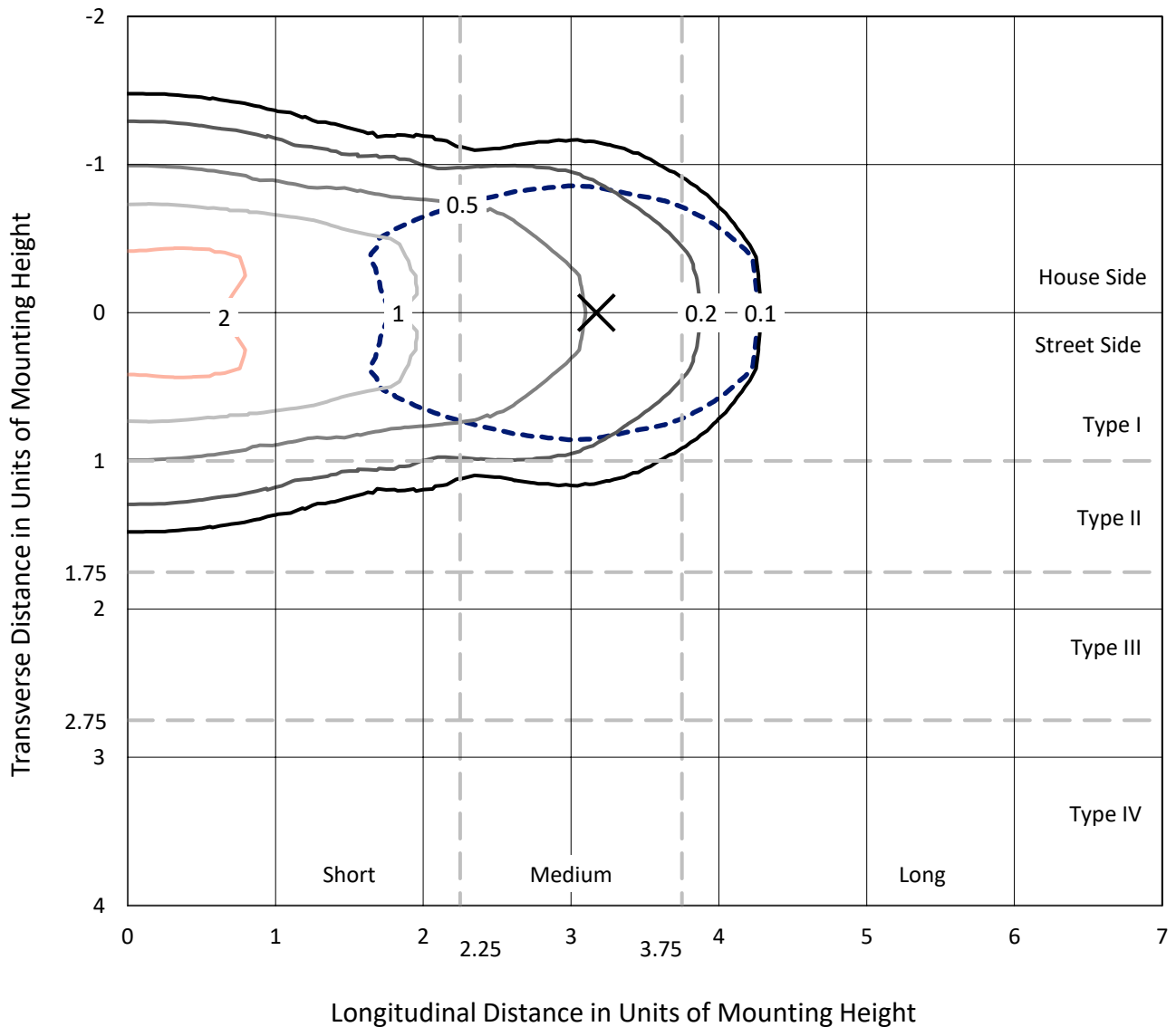
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

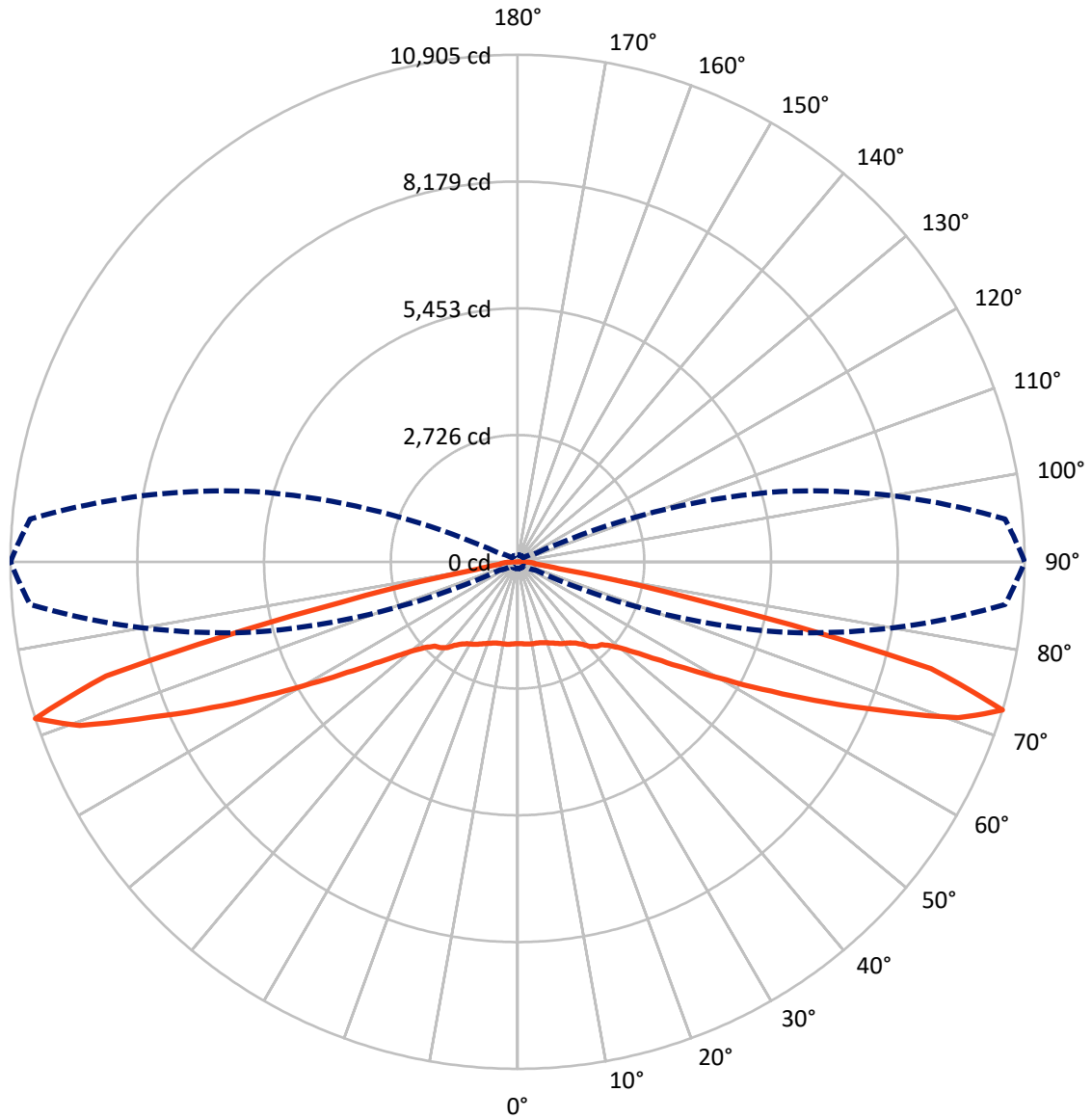
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 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	4716.6	0.0	4716.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4716.6	0.0	4716.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	9433.1	0.0	9433.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.9	1.8
10°-20°	522.6	5.5
20°-30°	871.4	9.2
30°-40°	1198.4	12.7
40°-50°	1463.5	15.5
50°-60°	1692.8	17.9
60°-70°	2018.3	21.4
70°-80°	1408.7	14.9
80°-90°	86.5	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°	9433.1	100.0
0°-180°	9433.1	100.0

Coefficient of Utilization



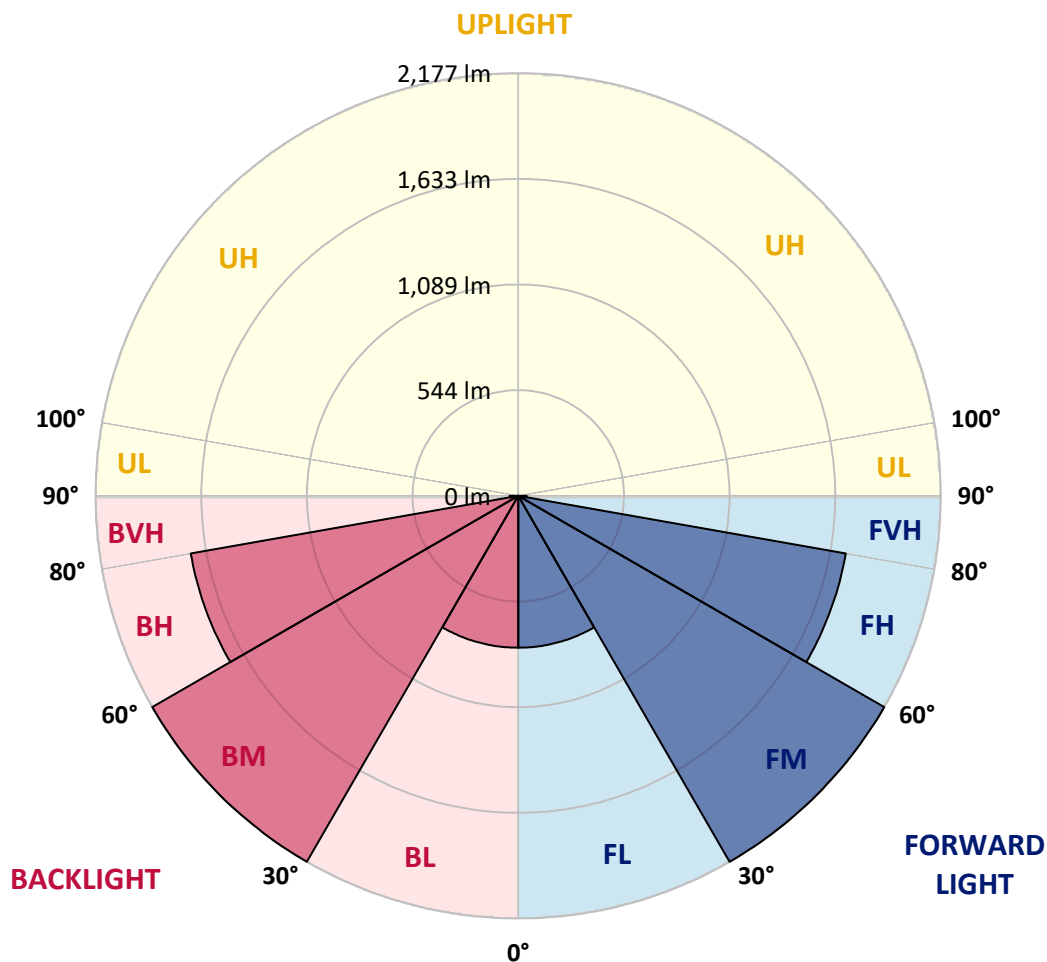
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	782.4	8.3			
FM (30°-60°)	2177.4	23.1			
FH (60°-80°)	1713.5	18.2			G1/1800
FVH (80°-90°)	43.3	0.5			G1/100
BL (0°-30°)	782.4	8.3	B2/1000		
BM (30°-60°)	2177.4	23.1	B2/2500		
BH (60°-80°)	1713.5	18.2	B3/2500		G3/2500
BVH (80°-90°)	43.3	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°	1762.7	1762.7	1762.7	1762.7	1762.7	1762.7	1762.7	1762.7	1762.7	1762.7	1762.7	1762.7
2.5°	1764.1	1766.2	1766.2	1764.6	1768.2	1765.2	1765.2	1763.7	1765.2	1763.7	1763.7	1763.7
5°	1773.1	1775.7	1776.7	1776.2	1780.7	1778.2	1778.2	1776.2	1776.7	1775.2	1775.2	1775.2
7.5°	1790.3	1793.7	1795.8	1798.3	1804.8	1801.7	1799.8	1793.7	1791.3	1787.2	1787.2	1787.2
10°	1795.8	1799.8	1806.3	1819.3	1834.3	1834.9	1828.8	1813.8	1802.3	1793.2	1793.2	1791.7
12.5°	1778.7	1784.2	1797.7	1824.3	1857.9	1871.4	1861.9	1836.9	1814.4	1798.3	1798.3	1795.8
15°	1757.2	1763.2	1783.7	1823.8	1873.5	1905.1	1904.0	1870.9	1834.9	1809.8	1809.8	1805.7
17.5°	1723.5	1729.6	1759.2	1815.3	1885.5	1937.7	1951.7	1917.6	1866.9	1833.3	1833.3	1827.9
20°	1662.9	1668.4	1709.5	1788.2	1889.5	1972.2	2008.8	1978.8	1915.6	1869.9	1869.9	1861.4
22.5°	1584.2	1592.7	1640.8	1741.6	1880.0	2008.3	2074.0	2053.5	1972.2	1909.1	1909.1	1897.5
25°	1500.0	1509.0	1565.2	1684.5	1855.5	2034.4	2151.2	2138.1	2036.4	1957.6	1957.6	1941.7
27.5°	1427.3	1436.8	1497.9	1627.8	1817.3	2044.5	2227.4	2233.9	2114.1	2011.4	2011.4	1994.2
30°	1370.1	1379.1	1444.3	1582.2	1768.2	2034.4	2294.1	2339.2	2193.3	2058.0	2058.0	2033.4
32.5°	1307.5	1319.0	1387.6	1526.5	1710.0	2010.3	2352.3	2453.0	2285.0	2108.1	2108.1	2077.0
35°	1228.3	1238.8	1311.0	1450.4	1633.8	1971.7	2400.9	2579.3	2416.4	2184.3	2184.3	2149.7
37.5°	1132.0	1142.1	1213.7	1355.0	1558.1	1917.6	2438.0	2721.7	2572.9	2294.1	2294.1	2247.9
40°	1035.2	1044.8	1111.9	1248.8	1467.4	1848.4	2451.0	2861.1	2752.3	2444.9	2444.9	2395.8
42.5°	946.5	955.0	1016.7	1144.0	1365.6	1760.1	2434.0	2982.4	2913.3	2550.3	2550.3	2487.1
45°	864.8	872.3	926.9	1045.8	1259.8	1652.9	2382.8	3112.7	3104.7	2625.4	2625.4	2540.3
47.5°	771.5	779.1	835.7	950.5	1154.0	1527.0	2296.1	3241.0	3370.9	2795.9	2795.9	2697.7
50°	657.7	664.3	722.4	840.7	1044.3	1393.2	2175.8	3341.8	3706.8	3054.1	3054.1	2930.8
52.5°	522.9	529.9	586.5	704.9	913.9	1249.3	2017.3	3407.5	4094.9	3431.1	3431.1	3279.2
55°	389.0	394.0	443.2	549.5	752.5	1085.4	1818.9	3426.1	4535.0	3946.5	3946.5	3756.4
57.5°	282.3	285.3	316.8	396.1	570.5	880.4	1577.7	3378.0	5058.9	4607.2	4607.2	4368.0
60°	228.6	229.6	239.1	274.2	396.6	648.7	1286.4	3212.6	5627.5	5458.9	5458.9	5157.7
62.5°	207.6	207.6	210.0	219.6	268.2	428.1	934.0	2869.6	6237.0	6535.3	6535.3	6131.8
65°	193.0	193.0	194.0	198.5	211.6	272.8	589.6	2311.2	6750.9	7796.2	7796.2	7285.8
67.5°	180.0	180.5	180.0	181.5	189.0	201.5	341.9	1596.2	7027.6	9102.6	9102.6	8551.7
70°	166.5	167.5	164.9	164.9	171.0	171.5	214.0	875.4	6798.0	10197.5	10197.5	10052.6
72.5°	150.4	151.9	147.9	146.9	151.4	149.4	160.9	420.1	5836.5	10524.4	10524.4	10905.4
75°	136.3	138.4	129.4	126.8	126.8	125.4	130.9	215.6	3788.0	8585.2	8585.2	9182.9
77.5°	123.8	127.8	113.3	105.3	103.3	98.8	106.8	131.8	1656.9	4030.7	4030.7	3947.0
80°	102.3	107.8	93.3	83.7	80.3	75.2	84.3	92.2	492.8	936.0	936.0	896.4
82.5°	76.2	78.7	66.2	59.7	56.7	53.1	63.1	64.2	160.4	331.4	331.4	374.5
85°	48.6	49.6	40.6	35.1	33.6	32.1	40.1	35.1	61.2	243.6	243.6	353.9
87.5°	17.0	19.6	15.6	14.0	15.1	12.5	18.6	10.6	17.0	172.0	172.0	213.1
90°	0.0	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)