

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: P961032

Luminaire Tested: **NAV-SB1D-830-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961032
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-830-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9275.2 lumens
Efficiency: N/A
Efficacy: 116.5 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

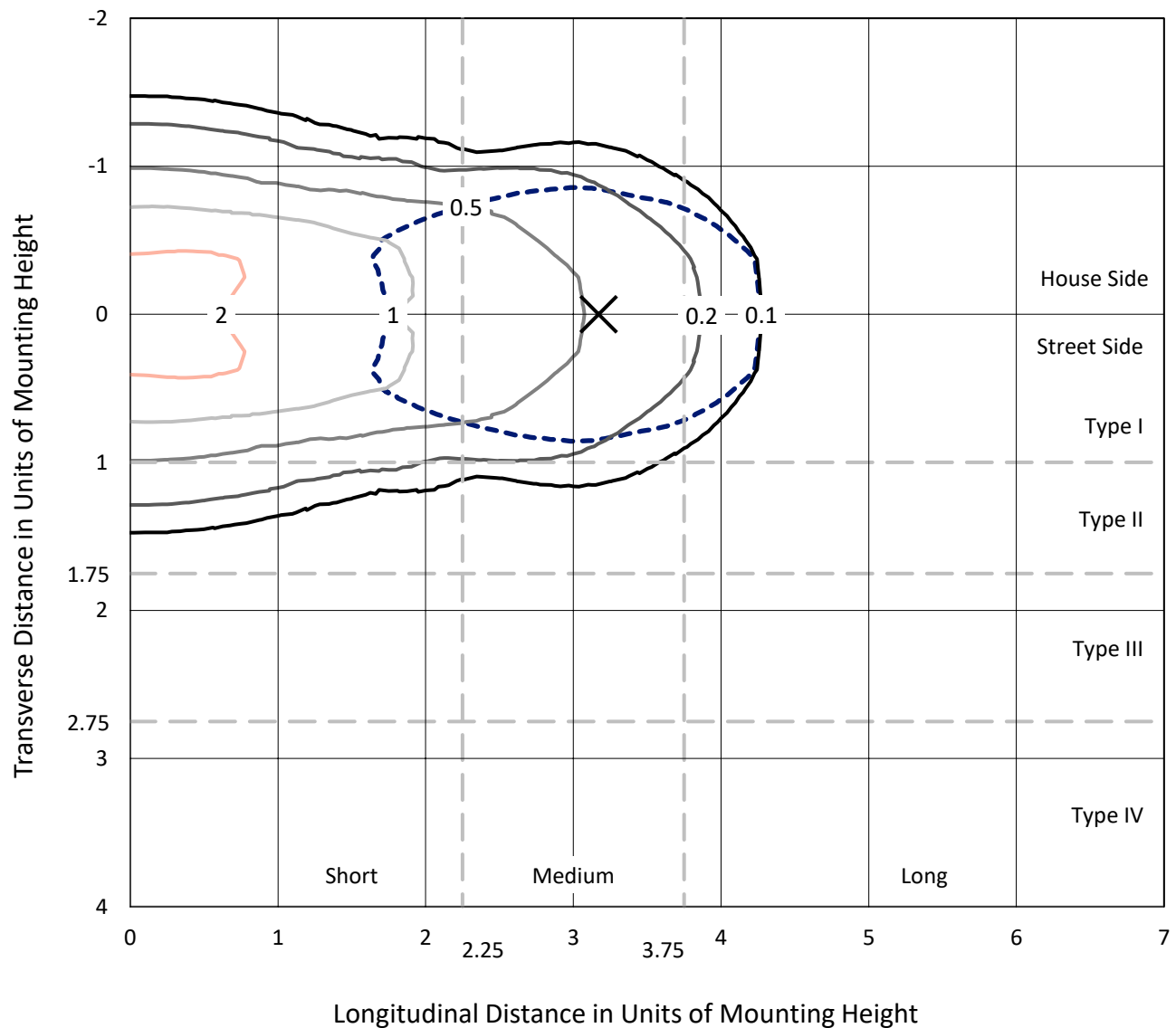
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

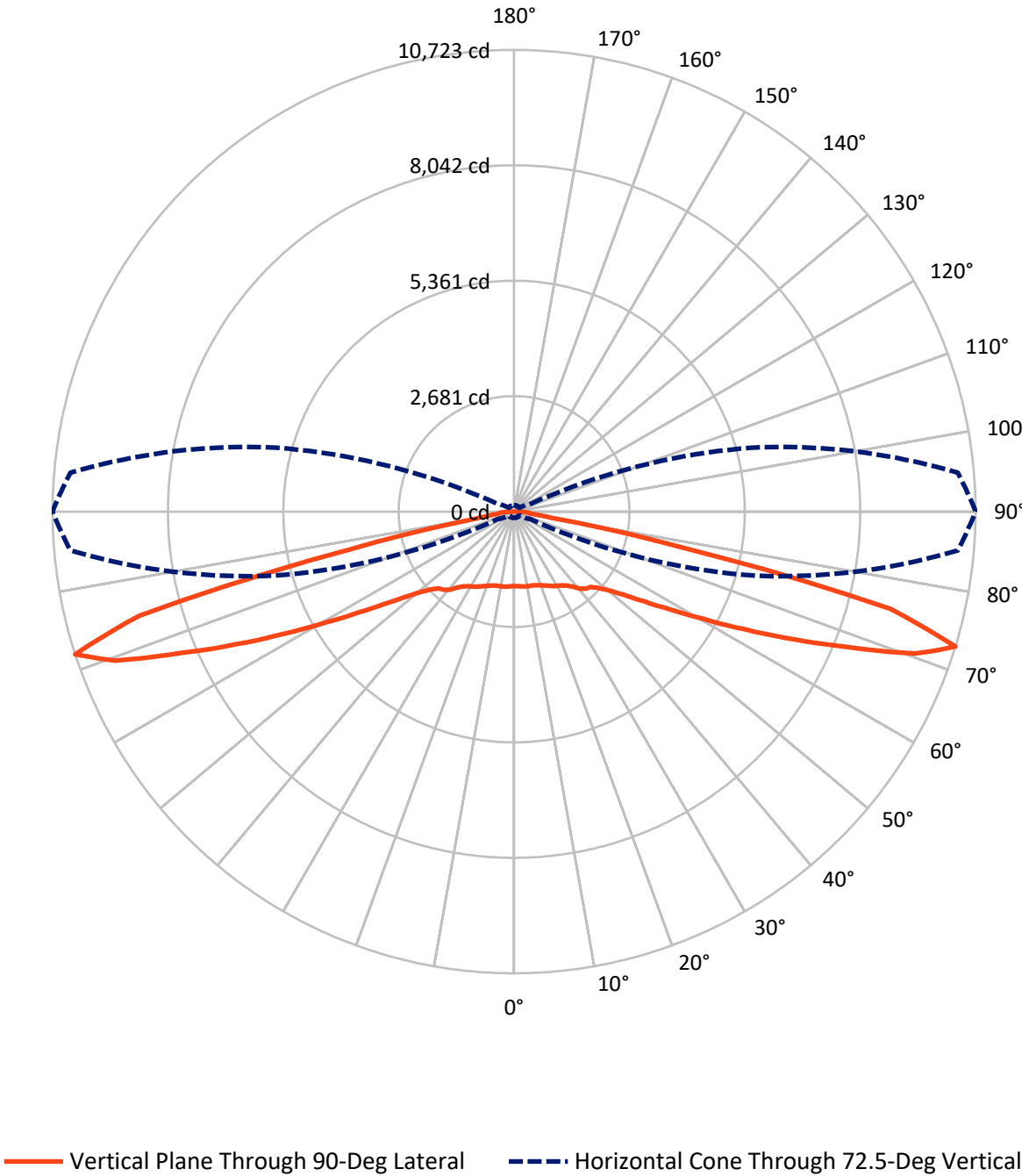
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
Type I - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4637.6	0.0	4637.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4637.6	0.0	4637.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	9275.2	0.0	9275.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.1	1.8
10°-20°	513.8	5.5
20°-30°	856.8	9.2
30°-40°	1178.3	12.7
40°-50°	1439.1	15.5
50°-60°	1664.4	17.9
60°-70°	1984.6	21.4
70°-80°	1385.1	14.9
80°-90°	85.1	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°	9275.2	100.0
0°-180°	9275.2	100.0

Coefficient of Utilization



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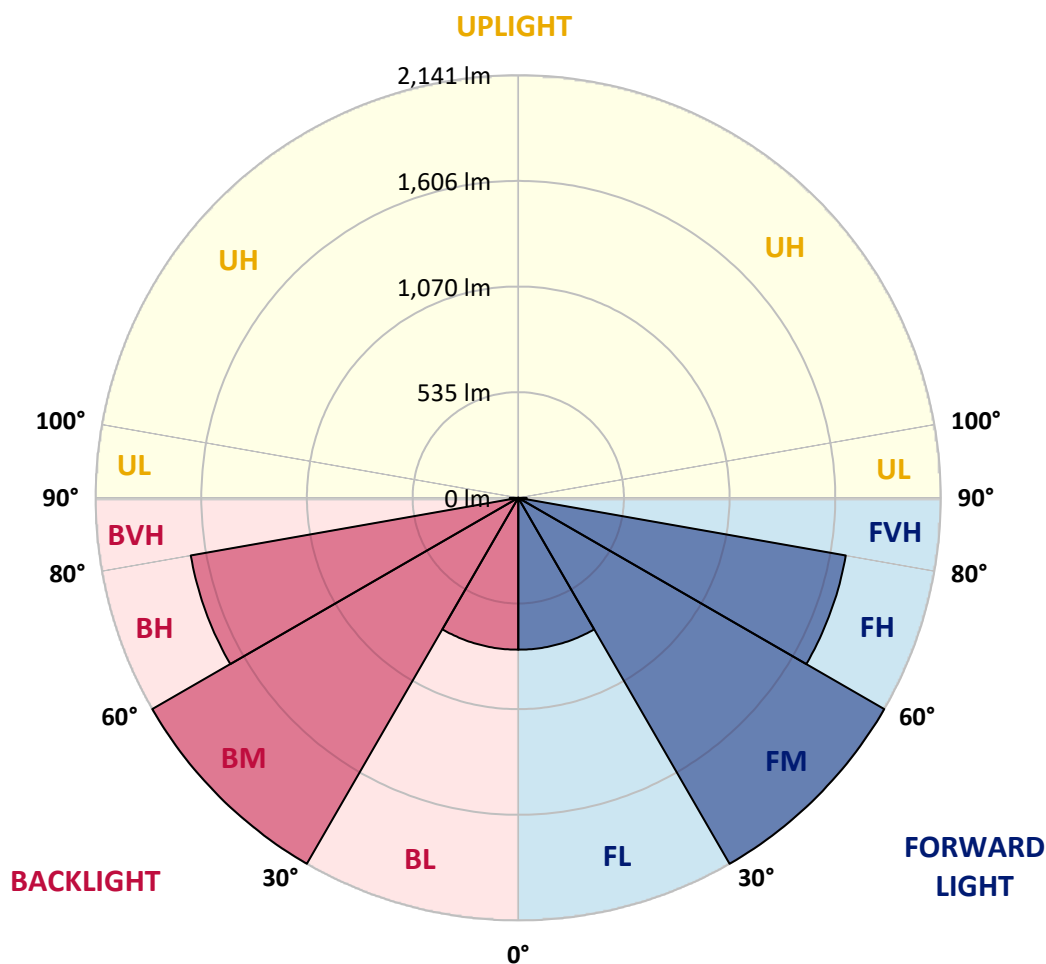
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	769.3	8.3			
FM	(30°-60°)	2140.9	23.1			
FH	(60°-80°)	1684.8	18.2			G1/1800
FVH	(80°-90°)	42.5	0.5			G1/100
BL	(0°-30°)	769.3	8.3	B2/1000		
BM	(30°-60°)	2140.9	23.1	B2/2500		
BH	(60°-80°)	1684.8	18.2	B3/2500		G3/2500
BVH	(80°-90°)	42.5	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°	1733.2	1733.2	1733.2	1733.2	1733.2	1733.2	1733.2	1733.2	1733.2	1733.2	1733.2
2.5°	1734.6	1736.7	1736.7	1735.1	1738.6	1735.6	1735.6	1734.2	1735.6	1734.2	1734.2
5°	1743.5	1746.0	1747.0	1746.5	1750.9	1748.4	1748.4	1746.5	1747.0	1745.5	1745.5
7.5°	1760.3	1763.7	1765.7	1768.1	1774.6	1771.6	1769.7	1763.7	1761.3	1757.4	1757.4
10°	1765.7	1769.7	1776.0	1788.8	1803.7	1804.2	1798.3	1783.5	1772.1	1763.2	1761.8
12.5°	1749.0	1754.4	1767.7	1793.9	1826.9	1840.2	1830.8	1806.2	1783.9	1768.1	1765.7
15°	1727.7	1733.7	1753.9	1793.3	1842.1	1873.2	1872.2	1839.7	1804.2	1779.5	1775.6
17.5°	1694.7	1700.7	1729.7	1784.9	1853.9	1905.2	1919.0	1885.5	1835.7	1802.7	1797.2
20°	1635.1	1640.5	1680.9	1758.3	1857.9	1939.2	1975.2	1945.7	1883.5	1838.6	1830.2
22.5°	1557.7	1566.1	1613.4	1712.5	1848.5	1974.8	2039.3	2019.0	1939.2	1877.1	1865.8
25°	1474.9	1483.8	1538.9	1656.3	1824.4	2000.4	2115.2	2102.4	2002.3	1925.0	1909.2
27.5°	1403.4	1412.8	1472.9	1600.5	1786.9	2010.2	2190.1	2196.6	2078.7	1977.6	1960.9
30°	1347.2	1356.1	1420.1	1555.7	1738.6	2000.4	2255.7	2300.1	2156.6	2023.6	1999.4
32.5°	1285.6	1296.9	1364.5	1501.0	1681.4	1976.7	2312.9	2411.9	2246.8	2072.9	2042.2
35°	1207.7	1218.0	1289.0	1426.1	1606.5	1938.7	2360.7	2536.2	2376.0	2147.8	2113.8
37.5°	1113.0	1122.9	1193.4	1332.4	1532.1	1885.5	2397.2	2676.2	2529.8	2255.7	2210.3
40°	1017.9	1027.3	1093.4	1227.9	1442.8	1817.4	2410.0	2813.2	2706.2	2404.0	2355.8
42.5°	930.7	939.0	999.7	1124.9	1342.7	1730.7	2393.2	2932.5	2864.5	2507.6	2445.4
45°	850.3	857.7	911.4	1028.3	1238.7	1625.2	2342.9	3060.6	3052.8	2581.6	2497.7
47.5°	758.6	766.0	821.7	934.6	1134.8	1501.5	2257.7	3186.8	3314.5	2749.2	2652.5
50°	646.8	653.1	710.3	826.7	1026.7	1369.9	2139.4	3285.9	3644.8	3002.9	2881.7
52.5°	514.1	521.0	576.8	693.1	898.6	1228.4	1983.6	3350.5	4026.3	3373.7	3224.3
55°	382.5	387.4	435.7	540.3	739.9	1067.2	1788.4	3368.8	4459.2	3880.4	3693.6
57.5°	277.6	280.4	311.5	389.4	561.0	865.6	1551.2	3321.4	4974.2	4530.1	4295.0
60°	224.8	225.8	235.1	269.7	389.9	637.9	1264.8	3158.7	5533.3	5367.6	5071.4
62.5°	204.1	204.1	206.5	215.9	263.7	421.0	918.3	2821.6	6132.7	6425.9	6029.2
65°	189.8	189.8	190.8	195.2	208.0	268.1	579.7	2272.4	6637.9	7665.7	7163.9
67.5°	176.9	177.4	176.9	178.5	185.8	198.1	336.2	1569.5	6910.0	8950.3	8408.6
70°	163.7	164.6	162.2	162.2	168.1	168.6	210.5	860.7	6684.2	10026.9	9884.4
72.5°	147.9	149.3	145.4	144.4	148.8	146.9	158.3	413.1	5738.8	10348.3	10722.9
75°	134.1	136.0	127.2	124.7	124.7	123.2	128.6	212.0	3724.6	8441.6	9029.1
77.5°	121.8	125.7	111.4	103.5	101.6	97.1	105.0	129.7	1629.1	3963.3	3881.0
80°	100.6	106.0	91.7	82.3	78.8	73.9	82.8	90.7	484.5	920.3	881.4
82.5°	74.9	77.4	65.1	58.6	55.7	52.3	62.1	63.1	157.7	325.8	368.2
85°	47.8	48.8	40.0	34.5	33.0	31.6	39.5	34.5	60.2	239.5	348.0
87.5°	16.8	19.3	15.3	13.8	14.8	12.3	18.2	10.4	16.8	169.1	209.5
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)