

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: P882455

Luminaire Tested: **NAV-SB2B-830-U-T1**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P882455  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB2B-830-U-T1  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

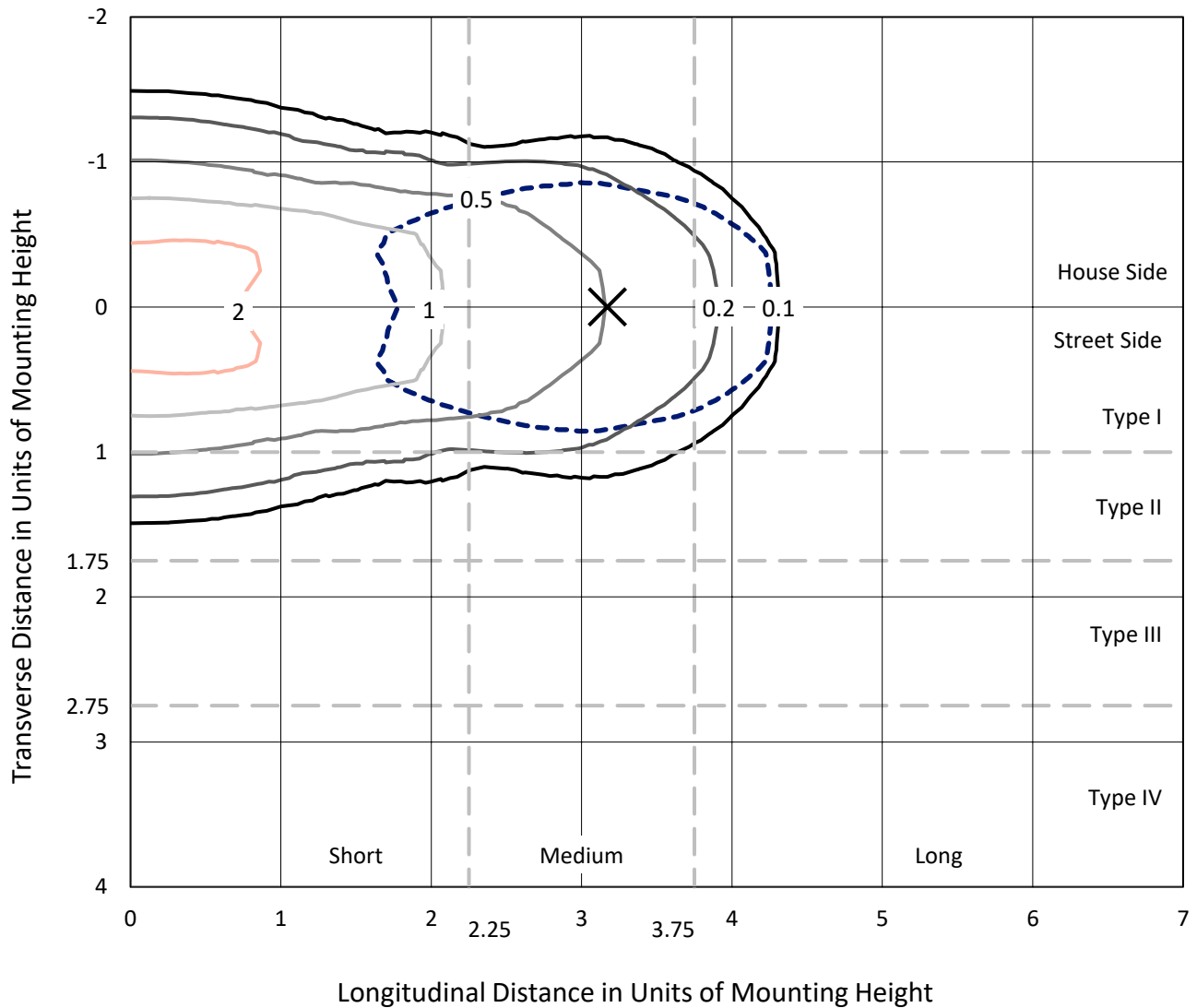
Lumens per Lamp: N/A  
Luminaire Lumens: 9934 lumens  
Efficiency: N/A  
Efficacy: 134.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 73.9  
Input Voltage (V): 120.0  
Input Current (Ain): 0.627  
Voltage Rise (V): NR  
Power Factor: 0.988  
Total Harmonic Distortion (THDi): 13.593  
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

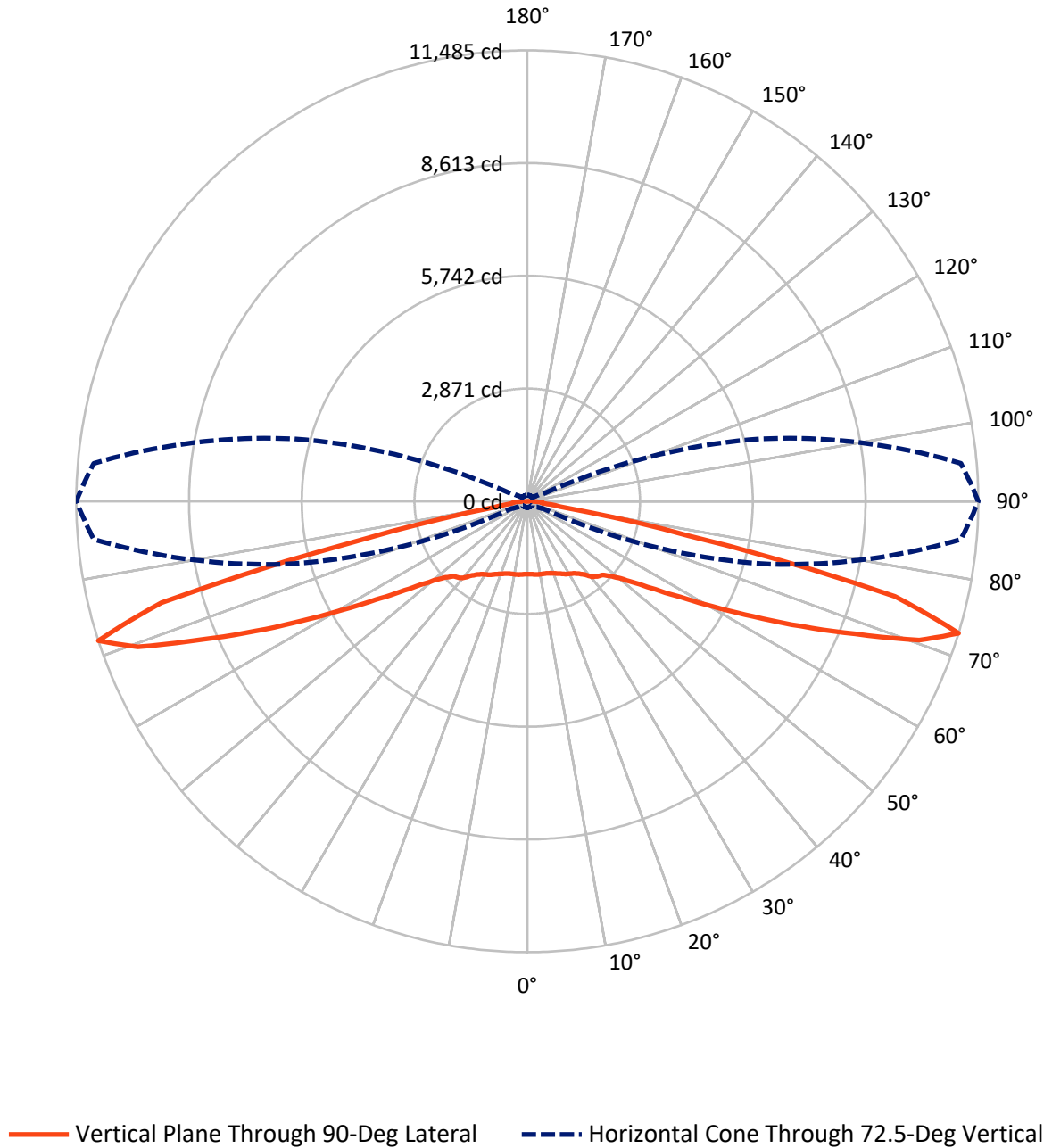
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4967.0	0.0	4967.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	4967.0	0.0	4967.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	9934.0	0.0	9934.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	180.0	1.8
10°-20°	550.3	5.5
20°-30°	917.6	9.2
30°-40°	1262.0	12.7
40°-50°	1541.3	15.5
50°-60°	1782.7	17.9
60°-70°	2125.5	21.4
70°-80°	1483.5	14.9
80°-90°	91.1	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°	9934.0	100.0
0°-180°	9934.0	100.0



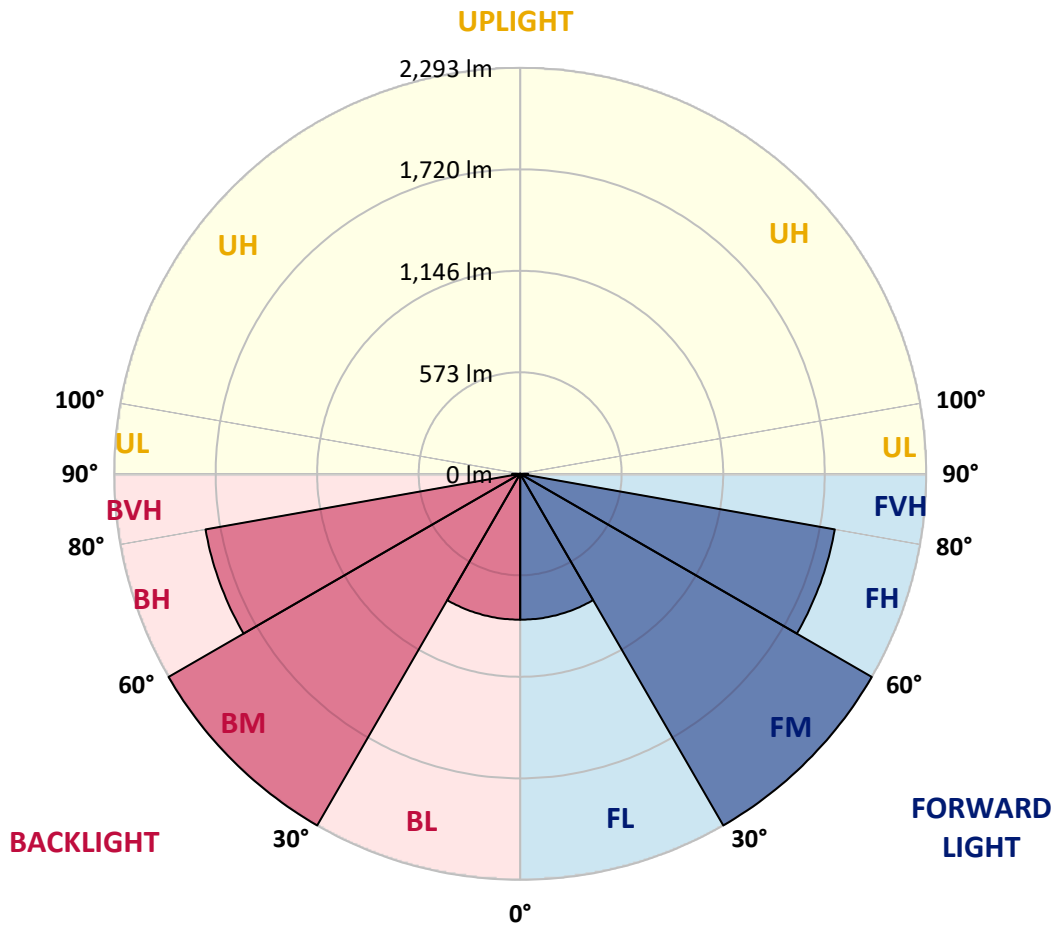
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	824.0	8.3			
FM (30°-60°)	2293.0	23.1			
FH (60°-80°)	1804.5	18.2			G2/5000
FVH (80°-90°)	45.6	0.5			G1/100
BL (0°-30°)	824.0	8.3	B2/1000		
BM (30°-60°)	2293.0	23.1	B2/2500		
BH (60°-80°)	1804.5	18.2	B3/2500		G3/2500
BVH (80°-90°)	45.6	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°	1856.3	1856.3	1856.3	1856.3	1856.3	1856.3	1856.3	1856.3	1856.3	1856.3	1856.3
2.5°	1857.9	1860.0	1860.0	1858.4	1862.1	1858.9	1858.9	1857.3	1858.9	1857.3	1857.3
5°	1867.4	1870.0	1871.1	1870.5	1875.3	1872.6	1872.6	1870.5	1871.1	1869.5	1869.5
7.5°	1885.3	1889.0	1891.1	1893.8	1900.6	1897.5	1895.3	1889.0	1886.4	1882.1	1882.1
10°	1891.1	1895.3	1902.2	1915.9	1931.8	1932.3	1926.0	1910.1	1898.0	1888.5	1886.9
12.5°	1873.2	1879.0	1893.2	1921.2	1956.6	1970.8	1960.8	1934.4	1910.7	1893.8	1891.1
15°	1850.5	1856.8	1878.4	1920.7	1972.9	2006.2	2005.2	1970.3	1932.3	1905.9	1901.7
17.5°	1815.1	1821.4	1852.6	1911.7	1985.6	2040.5	2055.3	2019.4	1966.1	1930.7	1924.9
20°	1751.2	1757.0	1800.3	1883.2	1989.8	2077.0	2115.5	2083.8	2017.3	1969.3	1960.3
22.5°	1668.3	1677.3	1728.0	1834.1	1979.8	2115.0	2184.1	2162.5	2077.0	2010.4	1998.3
25°	1579.6	1589.1	1648.3	1773.9	1953.9	2142.4	2265.4	2251.7	2144.5	2061.6	2044.8
27.5°	1503.1	1513.1	1577.5	1714.3	1913.8	2153.0	2345.7	2352.5	2226.4	2118.1	2100.2
30°	1442.9	1452.4	1521.0	1666.2	1862.1	2142.4	2415.9	2463.4	2309.8	2167.2	2141.4
32.5°	1376.9	1389.0	1461.4	1607.6	1800.8	2117.1	2477.1	2583.3	2406.4	2220.0	2187.3
35°	1293.5	1304.6	1380.6	1527.4	1720.6	2076.4	2528.4	2716.3	2544.7	2300.3	2263.9
37.5°	1192.1	1202.7	1278.2	1427.0	1640.9	2019.4	2567.4	2866.2	2709.4	2415.9	2367.3
40°	1090.2	1100.2	1171.0	1315.1	1545.3	1946.6	2581.1	3013.0	2898.4	2574.8	2523.1
42.5°	996.8	1005.7	1070.7	1204.8	1438.1	1853.6	2563.2	3140.8	3067.9	2685.7	2619.2
45°	910.7	918.6	976.2	1101.3	1326.7	1740.7	2509.3	3278.0	3269.6	2764.9	2675.1
47.5°	812.5	820.4	880.1	1001.0	1215.3	1608.1	2418.0	3413.2	3549.9	2944.4	2840.9
50°	692.7	699.5	760.8	885.4	1099.7	1467.2	2291.3	3519.3	3903.7	3216.3	3086.4
52.5°	550.7	558.0	617.7	742.3	962.5	1315.7	2124.5	3588.5	4312.3	3613.3	3453.3
55°	409.7	415.0	466.7	578.6	792.5	1143.0	1915.4	3608.0	4775.8	4156.0	3955.9
57.5°	297.2	300.4	333.7	417.1	600.8	927.1	1661.5	3557.3	5327.5	4851.9	4600.0
60°	240.7	241.8	251.8	288.8	417.6	683.2	1354.7	3383.1	5926.2	5748.8	5431.6
62.5°	218.6	218.6	221.2	231.2	282.5	450.9	983.6	3022.0	6568.2	6882.4	6457.4
65°	203.3	203.3	204.3	209.1	222.8	287.2	620.9	2433.9	7109.4	8210.2	7672.7
67.5°	189.5	190.1	189.5	191.1	199.0	212.2	360.1	1681.0	7400.8	9586.0	9005.8
70°	175.3	176.3	173.7	173.7	180.0	180.6	225.4	921.8	7159.0	10739.0	10586.5
72.5°	158.4	160.0	155.7	154.7	159.4	157.3	169.5	442.4	6146.4	11083.3	11484.5
75°	143.6	145.7	136.2	133.6	133.6	132.0	137.8	227.0	3989.2	9041.1	9670.5
77.5°	130.4	134.6	119.3	110.9	108.8	104.0	112.5	138.9	1744.9	4244.7	4156.6
80°	107.7	113.5	98.2	88.2	84.5	79.2	88.7	97.1	519.0	985.7	944.0
82.5°	80.2	82.9	69.7	62.8	59.7	56.0	66.5	67.6	168.9	349.0	394.4
85°	51.2	52.3	42.8	37.0	35.4	33.8	42.2	37.0	64.4	256.6	372.7
87.5°	18.0	20.6	16.4	14.8	15.8	13.2	19.5	11.1	18.0	181.1	224.4
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)