

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: P882055

Luminaire Tested: **NAV-SB1D-730-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P882055
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-SB1D-730-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9918 lumens
Efficiency: N/A
Efficacy: 124.6 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

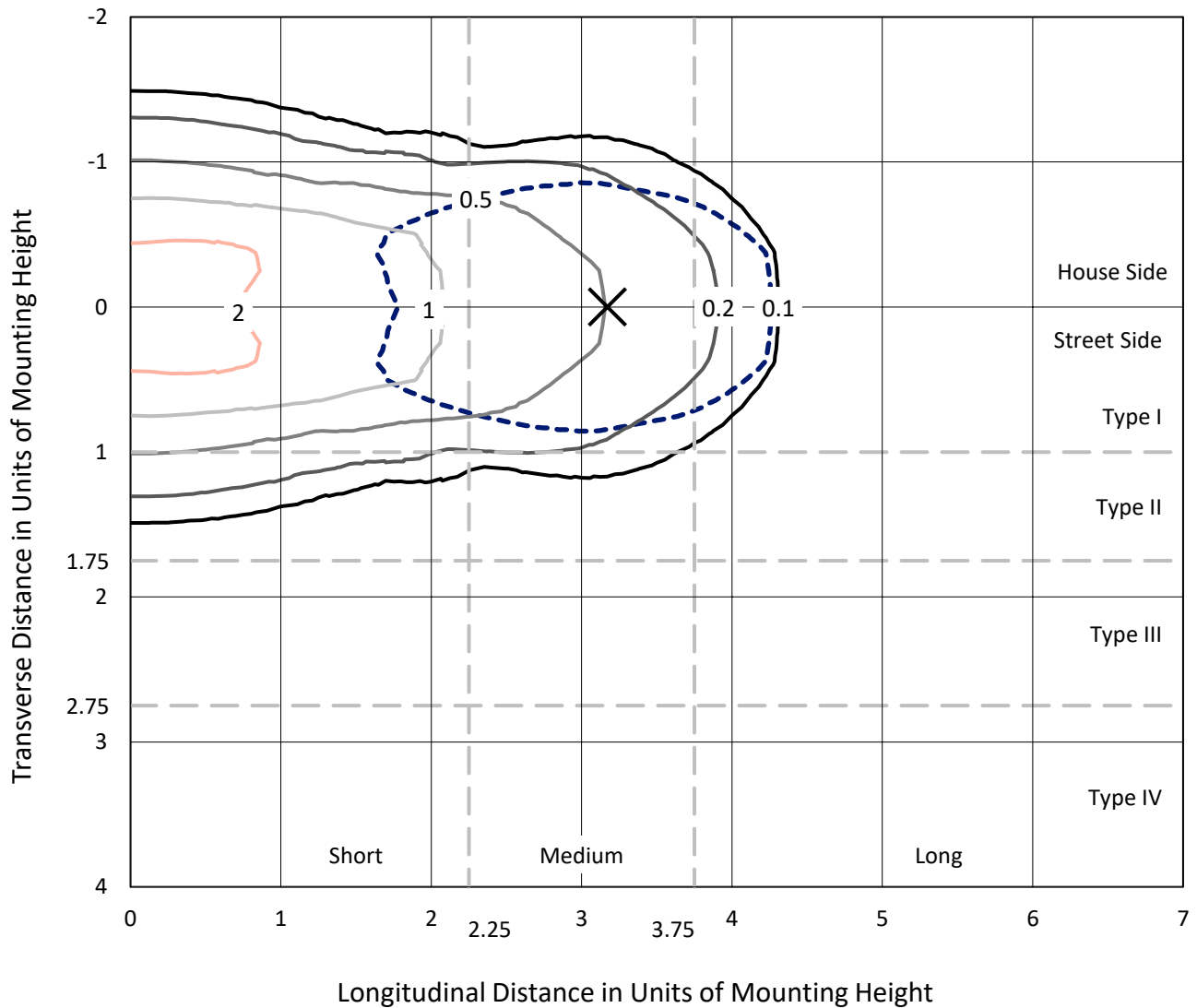
Input Watts (W): 79.6
Input Voltage (V): 120.0
Input Current (Ain): 0.638
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.673
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

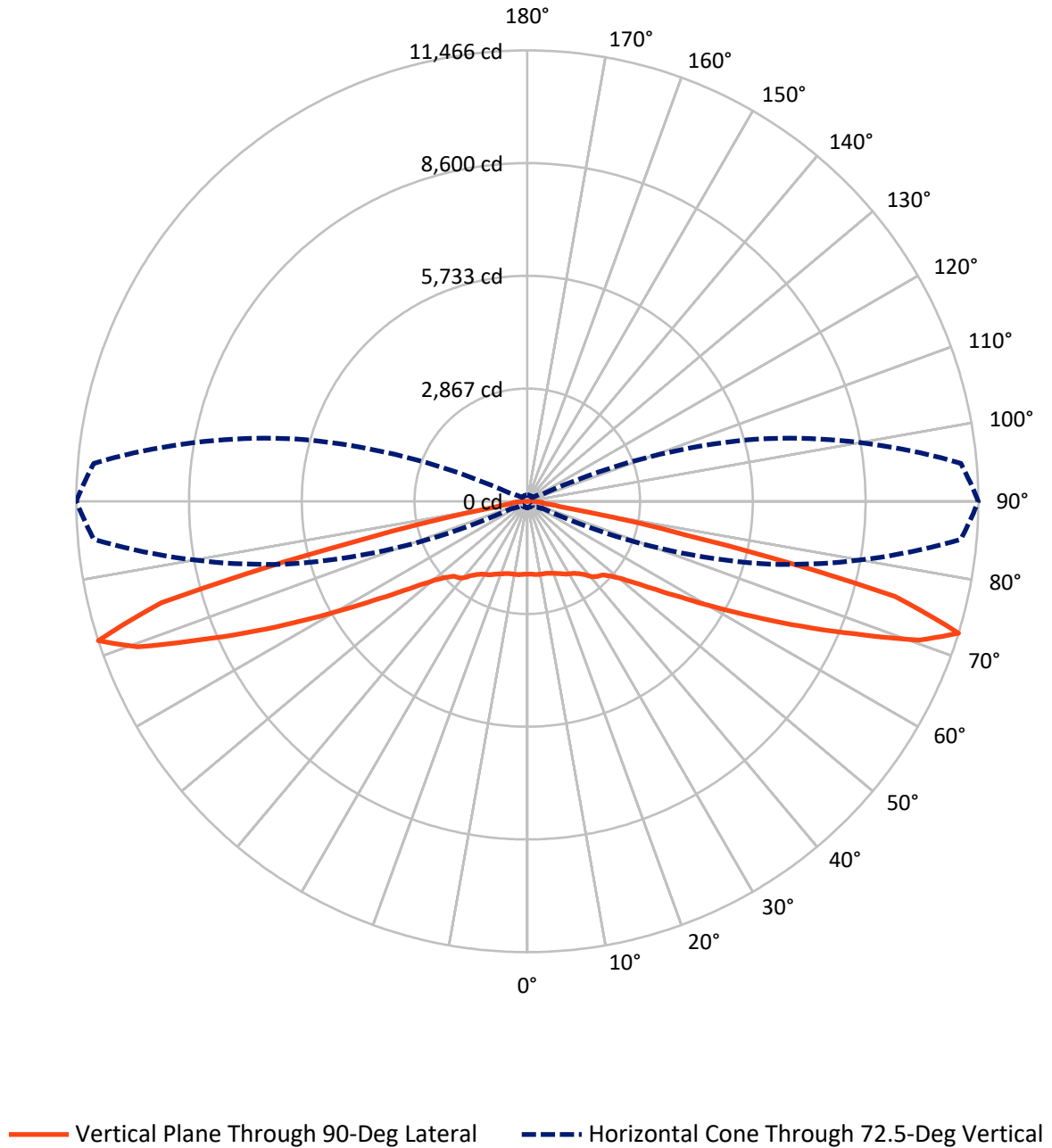
✕ Max cd
 - - - 1/2 Max cd



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
House Side	Lumens	4959.0	0.0	4959.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4959.0	0.0	4959.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	9918.0	0.0	9918.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.7	1.8
10°-20°	549.4	5.5
20°-30°	916.2	9.2
30°-40°	1260.0	12.7
40°-50°	1538.8	15.5
50°-60°	1779.8	17.9
60°-70°	2122.1	21.4
70°-80°	1481.1	14.9
80°-90°	91.0	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°	9918.0	100.0
0°-180°	9918.0	100.0

Coefficient of Utilization



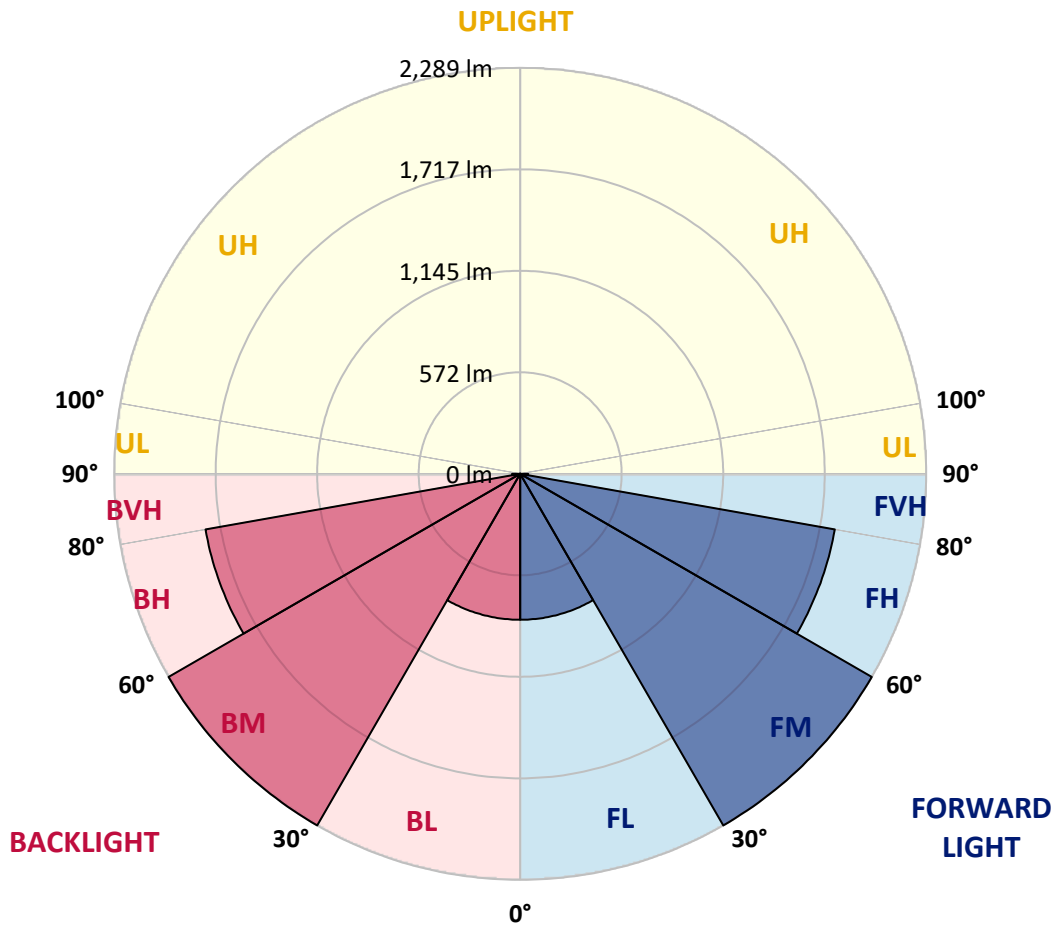
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	822.6	8.3			
FM (30°-60°)	2289.3	23.1			
FH (60°-80°)	1801.6	18.2			G2/5000
FVH (80°-90°)	45.5	0.5			G1/100
BL (0°-30°)	822.6	8.3	B2/1000		
BM (30°-60°)	2289.3	23.1	B2/2500		
BH (60°-80°)	1801.6	18.2	B3/2500		G3/2500
BVH (80°-90°)	45.5	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°	1853.3	1853.3	1853.3	1853.3	1853.3	1853.3	1853.3	1853.3	1853.3	1853.3	1853.3
2.5°	1854.9	1857.0	1857.0	1855.4	1859.1	1855.9	1855.9	1854.3	1855.9	1854.3	1854.3
5°	1864.4	1867.0	1868.0	1867.5	1872.3	1869.6	1869.6	1867.5	1868.0	1866.5	1866.5
7.5°	1882.3	1886.0	1888.1	1890.7	1897.6	1894.4	1892.3	1886.0	1883.3	1879.1	1879.1
10°	1888.1	1892.3	1899.1	1912.8	1928.7	1929.2	1922.9	1907.0	1894.9	1885.4	1883.9
12.5°	1870.2	1875.9	1890.2	1918.1	1953.4	1967.7	1957.6	1931.3	1907.6	1890.7	1888.1
15°	1847.5	1853.8	1875.4	1917.6	1969.8	2003.0	2001.9	1967.1	1929.2	1902.8	1898.6
17.5°	1812.2	1818.5	1849.6	1908.6	1982.4	2037.2	2052.0	2016.2	1962.9	1927.6	1921.8
20°	1748.4	1754.2	1797.4	1880.2	1986.6	2073.6	2112.1	2080.5	2014.0	1966.1	1957.1
22.5°	1665.6	1674.6	1725.2	1831.1	1976.6	2111.6	2180.6	2159.0	2073.6	2007.2	1995.1
25°	1577.1	1586.6	1645.6	1771.1	1950.8	2139.0	2261.8	2248.1	2141.1	2058.3	2041.5
27.5°	1500.7	1510.7	1575.0	1711.5	1910.7	2149.5	2341.9	2348.8	2222.8	2114.7	2096.8
30°	1440.6	1450.1	1518.6	1663.5	1859.1	2139.0	2412.0	2459.4	2306.1	2163.7	2137.9
32.5°	1374.7	1386.8	1459.0	1605.0	1797.9	2113.7	2473.2	2579.1	2402.5	2216.5	2183.8
35°	1291.4	1302.5	1378.4	1524.9	1717.8	2073.1	2524.3	2711.9	2540.6	2296.6	2260.2
37.5°	1190.2	1200.7	1276.1	1424.8	1638.2	2016.2	2563.3	2861.6	2705.1	2412.0	2363.5
40°	1088.5	1098.5	1169.1	1313.0	1542.8	1943.4	2577.0	3008.2	2893.8	2570.7	2519.0
42.5°	995.2	1004.1	1069.0	1202.8	1435.8	1850.6	2559.1	3135.7	3063.0	2681.4	2614.9
45°	909.2	917.2	974.6	1099.5	1324.6	1737.8	2505.3	3272.8	3264.3	2760.4	2670.8
47.5°	811.2	819.1	878.7	999.4	1213.4	1605.5	2414.1	3407.7	3544.2	2939.6	2836.3
50°	691.6	698.4	759.6	883.9	1097.9	1464.8	2287.6	3513.6	3897.4	3211.1	3081.4
52.5°	549.8	557.1	616.7	741.1	960.9	1313.5	2121.0	3582.7	4305.4	3607.5	3447.8
55°	409.0	414.3	466.0	577.7	791.2	1141.2	1912.3	3602.2	4768.1	4149.3	3949.6
57.5°	296.8	299.9	333.1	416.4	599.8	925.6	1658.8	3551.6	5319.0	4844.0	4592.6
60°	240.4	241.4	251.4	288.3	416.9	682.1	1352.5	3377.7	5916.7	5739.6	5422.8
62.5°	218.2	218.2	220.9	230.9	282.0	450.1	982.0	3017.1	6557.6	6871.3	6447.0
65°	202.9	202.9	204.0	208.7	222.4	286.7	619.9	2429.9	7097.9	8196.9	7660.3
67.5°	189.2	189.8	189.2	190.8	198.7	211.9	359.5	1678.3	7388.9	9570.6	8991.3
70°	175.0	176.1	173.4	173.4	179.7	180.3	225.1	920.3	7147.5	10721.7	10569.4
72.5°	158.1	159.7	155.5	154.4	159.2	157.1	169.2	441.7	6136.5	11065.4	11466.0
75°	143.4	145.5	136.0	133.4	133.4	131.8	137.6	226.7	3982.8	9026.6	9654.9
77.5°	130.2	134.4	119.1	110.7	108.6	103.8	112.3	138.6	1742.1	4237.9	4149.9
80°	107.5	113.3	98.0	88.0	84.3	79.1	88.6	97.0	518.1	984.1	942.5
82.5°	80.1	82.8	69.6	62.7	59.6	55.9	66.4	67.5	168.7	348.4	393.7
85°	51.1	52.2	42.7	36.9	35.3	33.7	42.2	36.9	64.3	256.2	372.1
87.5°	17.9	20.6	16.3	14.8	15.8	13.2	19.5	11.1	17.9	180.8	224.0
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)