

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: P960846

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

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960846
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-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: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10321.8 lumens
Efficiency: N/A
Efficacy: 129.7 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

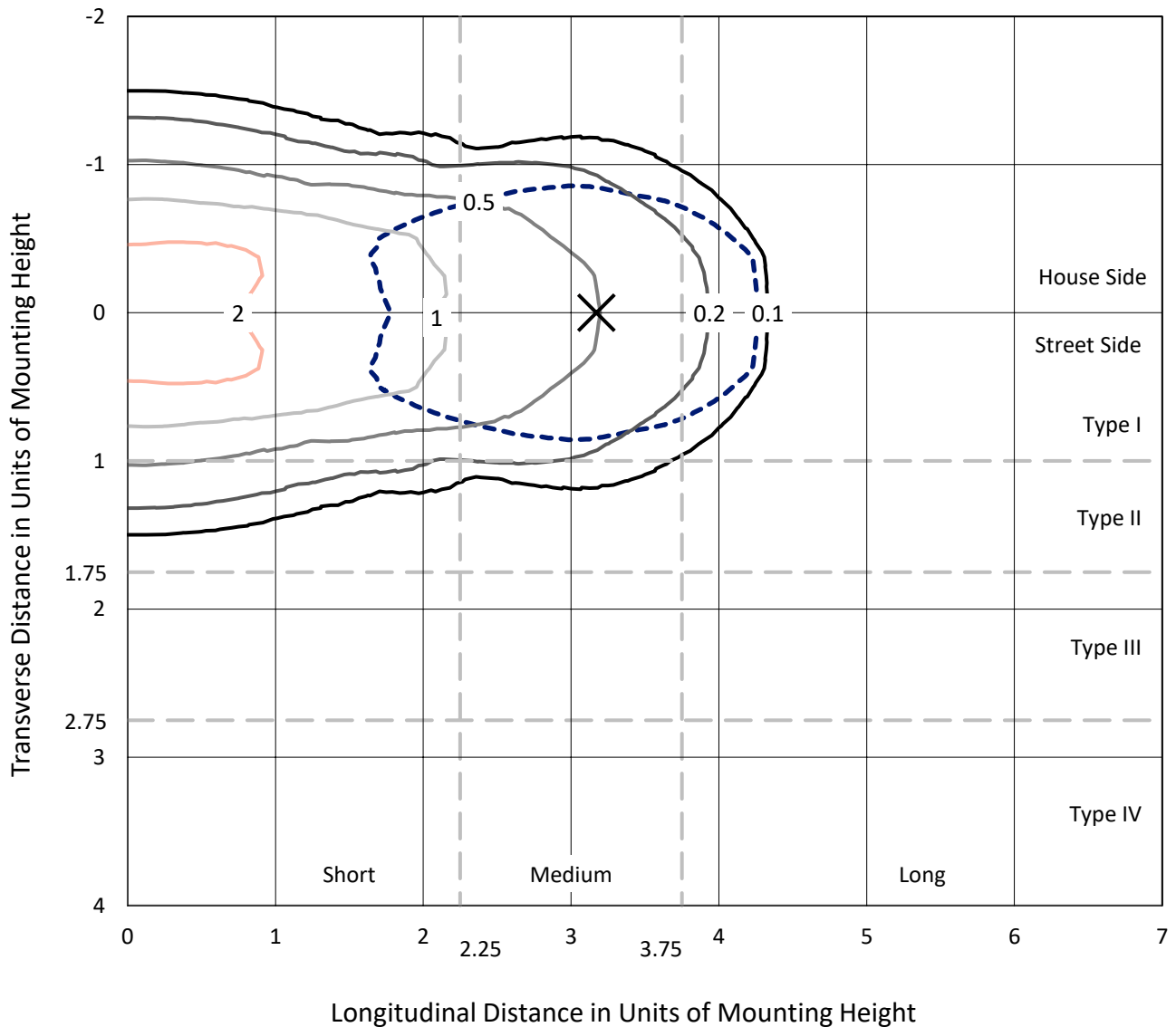
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

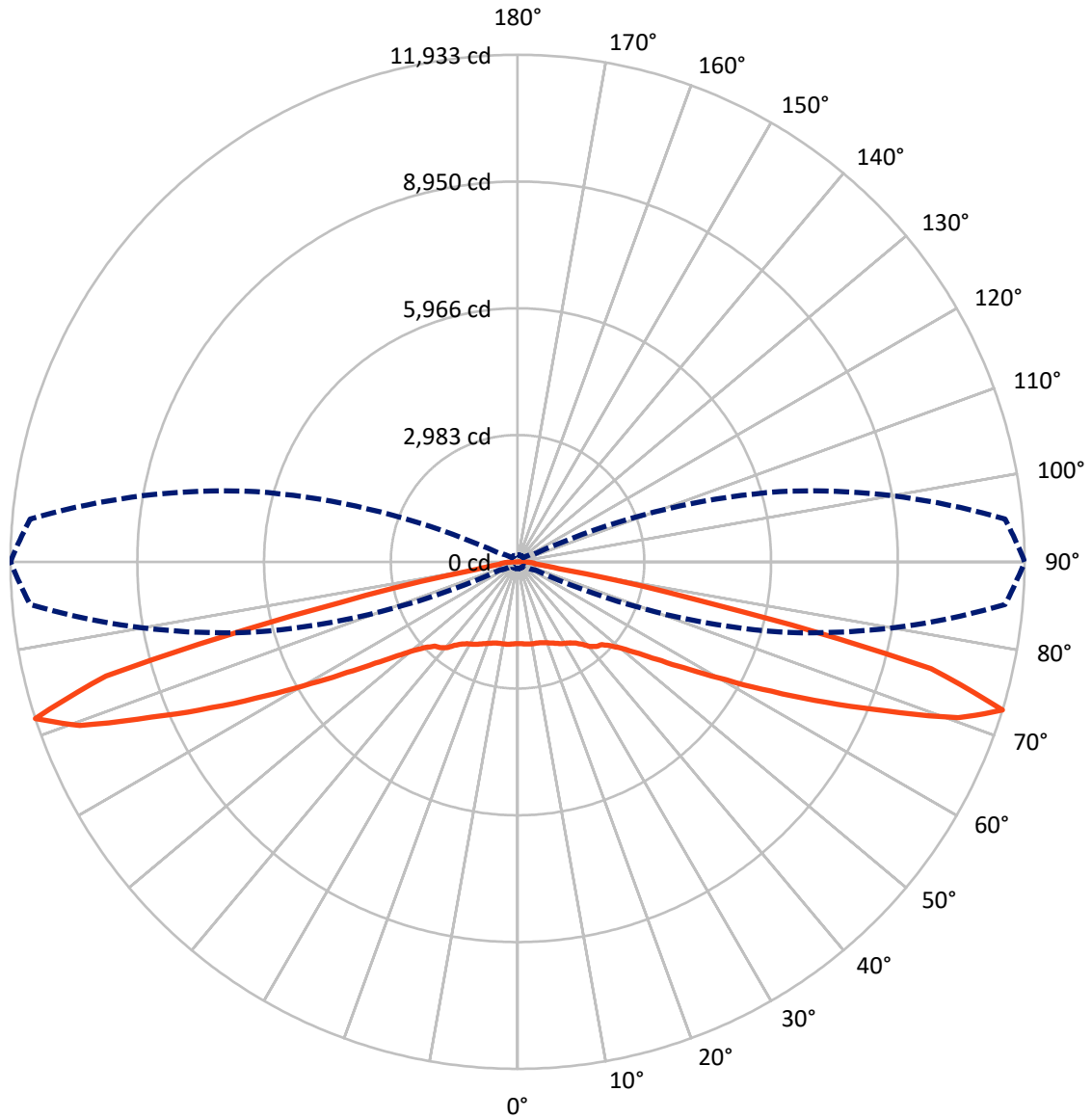
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 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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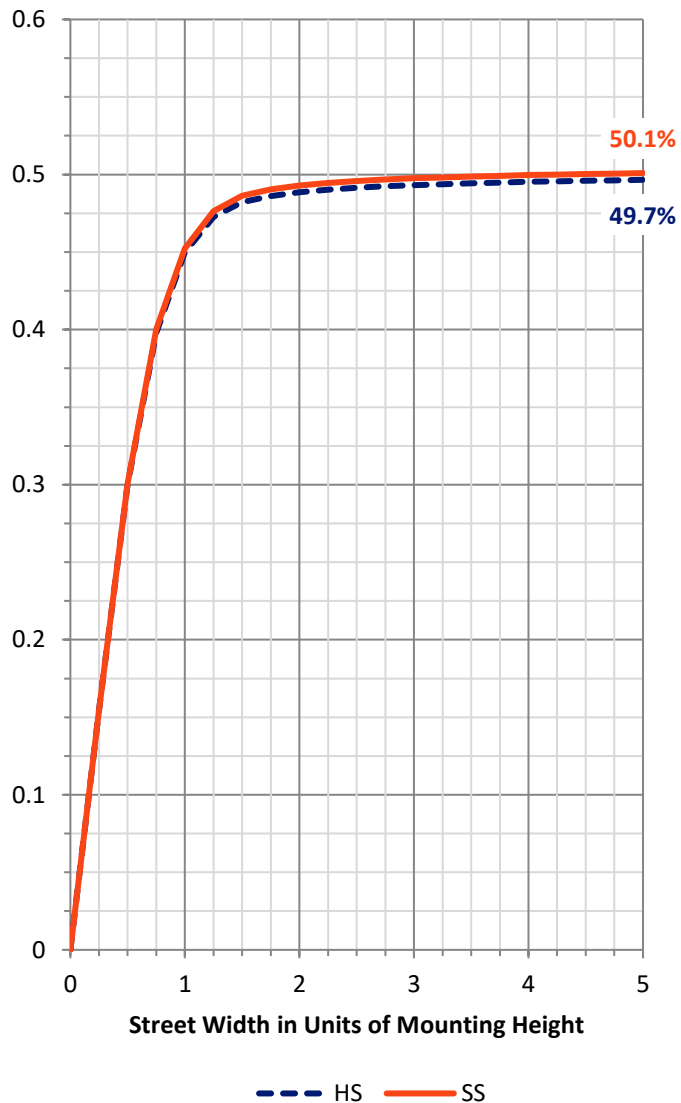
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5160.9	0.0	5160.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5160.9	0.0	5160.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	10321.8	0.0	10321.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.0	1.8
10°-20°	571.8	5.5
20°-30°	953.4	9.2
30°-40°	1311.3	12.7
40°-50°	1601.4	15.5
50°-60°	1852.2	17.9
60°-70°	2208.5	21.4
70°-80°	1541.4	14.9
80°-90°	94.7	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°	10321.8	100.0
0°-180°	10321.8	100.0

Coefficient of Utilization



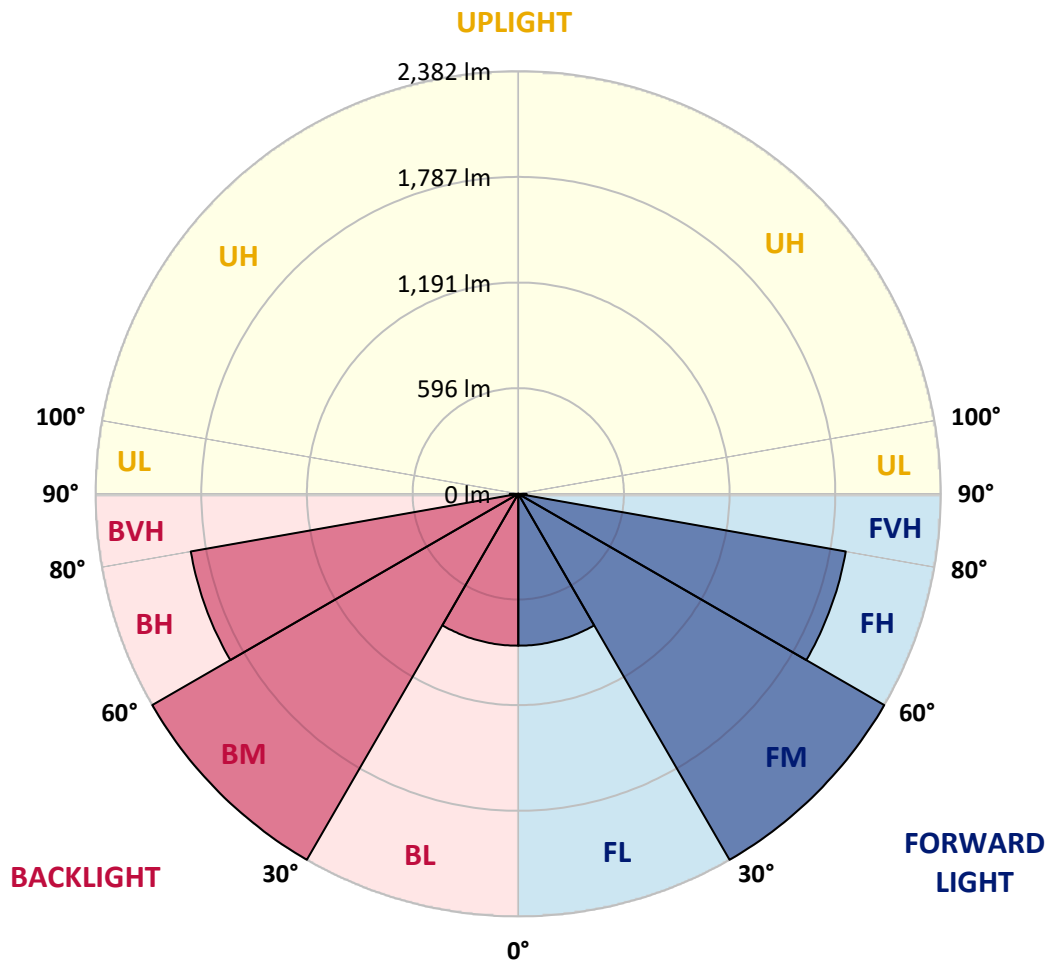
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	856.1	8.3			
FM (30°-60°)	2382.5	23.1			
FH (60°-80°)	1874.9	18.2			G2/5000
FVH (80°-90°)	47.3	0.5			G1/100
BL (0°-30°)	856.1	8.3	B2/1000		
BM (30°-60°)	2382.5	23.1	B2/2500		
BH (60°-80°)	1874.9	18.2	B3/2500		G3/2500
BVH (80°-90°)	47.3	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°	1928.7	1928.7	1928.7	1928.7	1928.7	1928.7	1928.7	1928.7	1928.7	1928.7	1928.7
2.5°	1930.4	1932.5	1932.5	1930.9	1934.8	1931.5	1931.5	1929.9	1931.5	1929.9	1929.9
5°	1940.2	1943.0	1944.1	1943.5	1948.5	1945.8	1945.8	1943.5	1944.1	1942.5	1942.5
7.5°	1958.9	1962.8	1964.9	1967.7	1974.8	1971.5	1969.3	1962.8	1960.0	1955.6	1955.6
10°	1964.9	1969.3	1976.4	1990.8	2007.2	2007.8	2001.1	1984.7	1972.1	1962.2	1960.5
12.5°	1946.3	1952.3	1967.1	1996.2	2033.0	2047.7	2037.4	2009.9	1985.2	1967.7	1964.9
15°	1922.7	1929.3	1951.8	1995.7	2050.0	2084.5	2083.4	2047.2	2007.8	1980.3	1975.9
17.5°	1885.9	1892.6	1924.8	1986.3	2063.1	2120.2	2135.5	2098.3	2042.8	2006.0	2000.1
20°	1819.6	1825.6	1870.6	1956.7	2067.5	2158.0	2198.1	2165.1	2096.0	2046.1	2036.8
22.5°	1733.5	1742.8	1795.4	1905.7	2057.1	2197.5	2269.4	2246.9	2158.0	2089.0	2076.2
25°	1641.3	1651.2	1712.6	1843.2	2030.2	2226.1	2353.8	2339.6	2228.2	2142.1	2124.5
27.5°	1561.8	1572.1	1639.1	1781.1	1988.5	2237.1	2437.2	2444.4	2313.2	2200.8	2182.1
30°	1499.2	1509.1	1580.3	1731.2	1934.8	2226.1	2510.2	2559.5	2399.9	2251.8	2225.0
32.5°	1430.6	1443.3	1518.4	1670.3	1871.1	2199.8	2573.9	2684.1	2500.3	2306.7	2272.6
35°	1344.0	1355.5	1434.5	1587.0	1787.7	2157.5	2627.1	2822.3	2644.1	2390.1	2352.2
37.5°	1238.6	1249.6	1328.1	1482.8	1704.9	2098.3	2667.7	2978.1	2815.2	2510.2	2459.7
40°	1132.7	1143.2	1216.7	1366.4	1605.7	2022.5	2681.9	3130.7	3011.6	2675.4	2621.5
42.5°	1035.7	1045.0	1112.4	1251.8	1494.2	1926.0	2663.3	3263.4	3187.6	2790.6	2721.4
45°	946.3	954.5	1014.2	1144.3	1378.5	1808.6	2607.3	3406.0	3397.3	2872.8	2779.5
47.5°	844.2	852.5	914.4	1040.1	1262.8	1671.0	2512.4	3546.4	3688.5	3059.3	2951.8
50°	719.8	726.8	790.5	919.9	1142.7	1524.5	2380.8	3656.7	4056.0	3341.8	3206.9
52.5°	572.2	579.8	641.9	771.3	1000.0	1367.0	2207.4	3728.5	4480.6	3754.4	3588.1
55°	425.7	431.1	484.9	601.3	823.4	1187.7	1990.1	3748.8	4962.2	4318.2	4110.4
57.5°	308.8	312.1	346.7	433.4	624.2	963.3	1726.3	3696.2	5535.5	5041.3	4779.6
60°	250.1	251.2	261.7	300.0	433.9	709.8	1407.6	3515.1	6157.6	5973.3	5643.5
62.5°	227.1	227.1	229.8	240.3	293.5	468.4	1021.9	3140.0	6824.6	7151.0	6709.4
65°	211.2	211.2	212.3	217.2	231.4	298.4	645.1	2528.9	7386.9	8530.7	7972.1
67.5°	196.9	197.5	196.9	198.5	206.8	220.5	374.1	1746.6	7689.7	9960.1	9357.3
70°	182.1	183.2	180.5	180.5	187.1	187.6	234.2	957.8	7438.4	11158.3	10999.7
72.5°	164.6	166.3	161.8	160.7	165.6	163.5	176.1	459.7	6386.3	11515.9	11932.7
75°	149.2	151.4	141.6	138.8	138.8	137.1	143.2	235.9	4144.9	9394.0	10048.0
77.5°	135.5	139.9	124.0	115.2	113.0	108.0	116.8	144.3	1813.0	4410.4	4318.8
80°	111.9	118.0	102.0	91.6	87.7	82.3	92.1	101.0	539.3	1024.2	980.8
82.5°	83.3	86.1	72.4	65.3	62.0	58.1	69.1	70.2	175.6	362.6	409.8
85°	53.2	54.3	44.4	38.4	36.8	35.2	43.9	38.4	66.9	266.6	387.2
87.5°	18.7	21.4	17.0	15.4	16.5	13.7	20.3	11.5	18.7	188.2	233.2
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)