

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: P960939

Luminaire Tested: **NAV-SB1D-750-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960939
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-750-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 5000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10920.4 lumens
Efficiency: N/A
Efficacy: 137.2 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

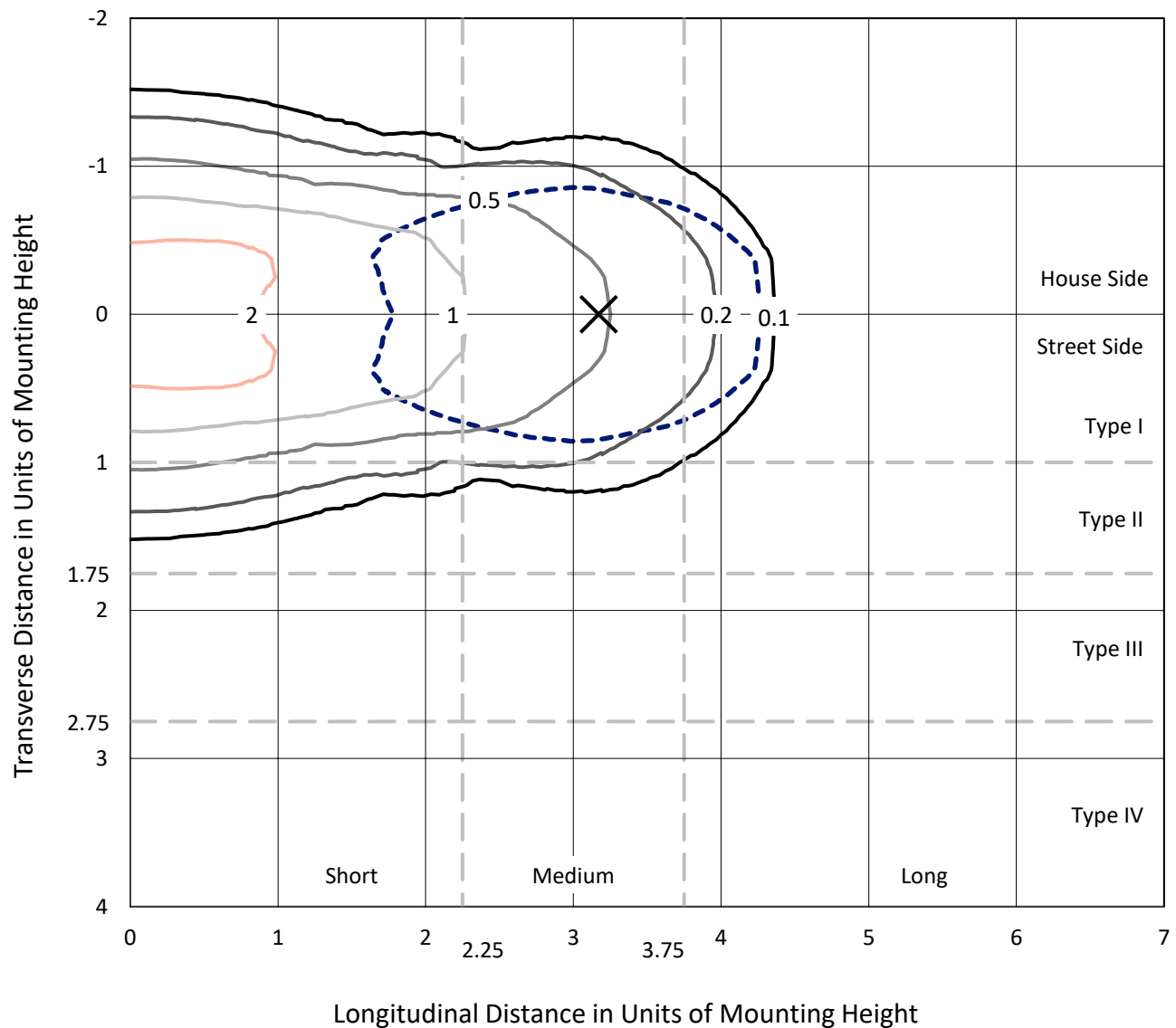


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Iso-Footcandle Lines of Horizontal Illumination

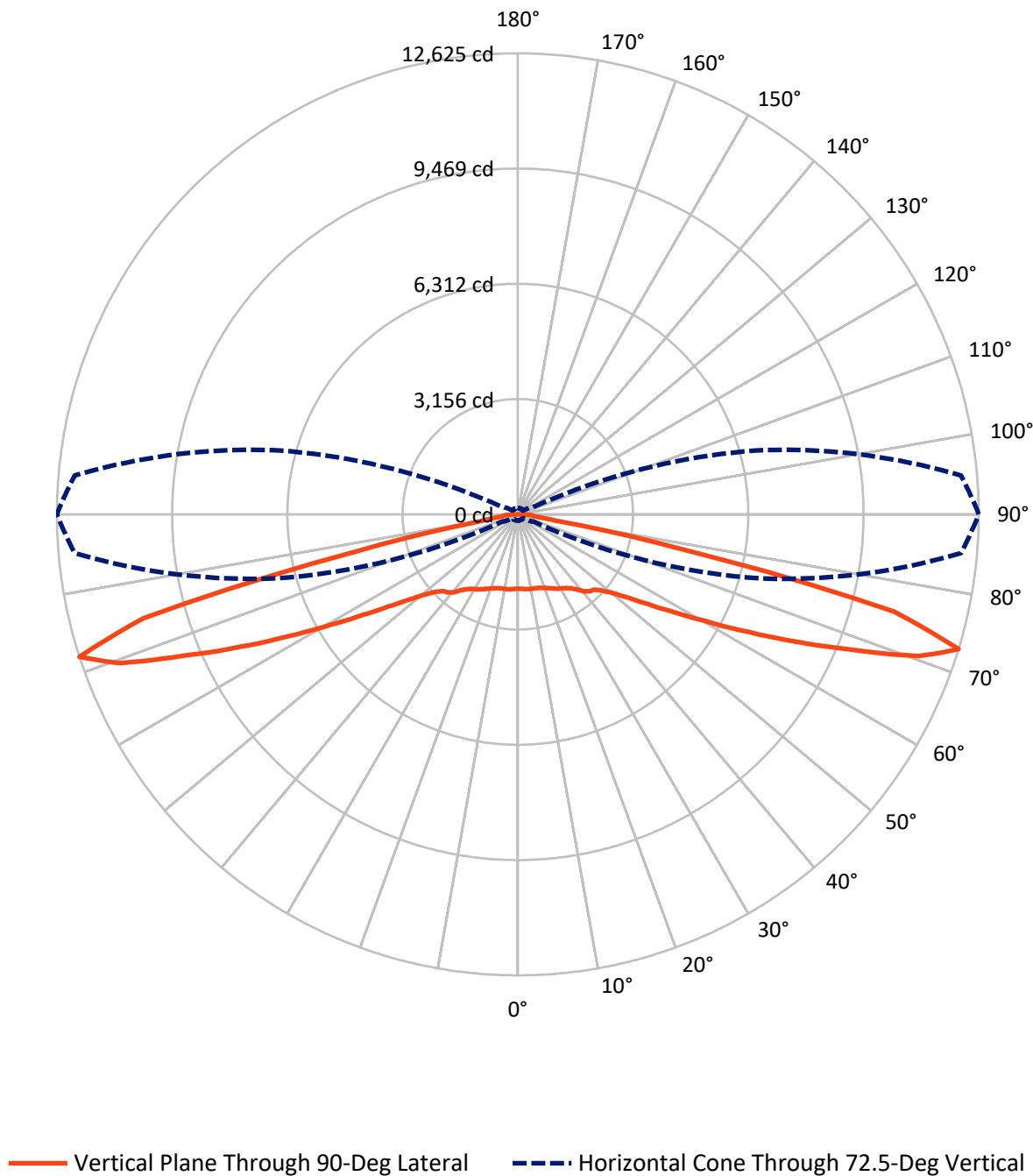
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 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	5460.2	0.0	5460.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5460.2	0.0	5460.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	10920.4	0.0	10920.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.9	1.8
10°-20°	605.0	5.5
20°-30°	1008.7	9.2
30°-40°	1387.3	12.7
40°-50°	1694.3	15.5
50°-60°	1959.6	17.9
60°-70°	2336.6	21.4
70°-80°	1630.8	14.9
80°-90°	100.2	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°	10920.4	100.0
0°-180°	10920.4	100.0

Coefficient of Utilization



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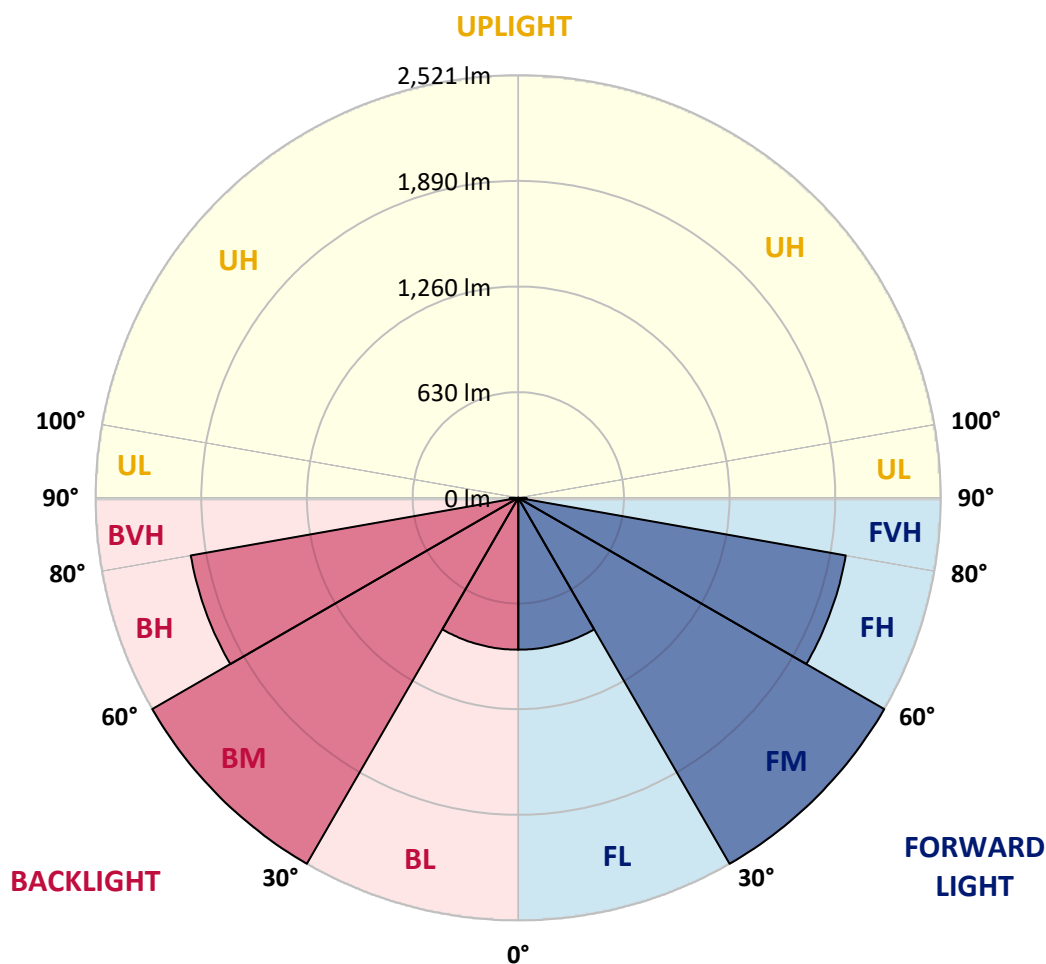
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	905.8	8.3			
FM	(30°-60°)	2520.6	23.1			
FH	(60°-80°)	1983.7	18.2			G2/5000
FVH	(80°-90°)	50.1	0.5			G1/100
BL	(0°-30°)	905.8	8.3	B2/1000		
BM	(30°-60°)	2520.6	23.1	B3/5000		
BH	(60°-80°)	1983.7	18.2	B3/2500		G3/2500
BVH	(80°-90°)	50.1	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°	2040.6	2040.6	2040.6	2040.6	2040.6	2040.6	2040.6	2040.6	2040.6	2040.6	2040.6
2.5°	2042.3	2044.7	2044.7	2042.9	2046.9	2043.4	2043.4	2041.7	2043.4	2041.7	2041.7
5°	2052.8	2055.6	2056.9	2056.3	2061.5	2058.6	2058.6	2056.3	2056.9	2055.1	2055.1
7.5°	2072.5	2076.5	2078.9	2081.8	2089.4	2085.9	2083.5	2076.5	2073.7	2069.1	2069.1
10°	2078.9	2083.5	2091.1	2106.2	2123.6	2124.1	2117.2	2099.8	2086.4	2076.0	2074.3
12.5°	2059.1	2065.6	2081.2	2112.0	2150.9	2166.5	2155.5	2126.5	2100.3	2081.8	2078.9
15°	2034.2	2041.2	2065.0	2111.4	2168.8	2205.4	2204.3	2165.9	2124.1	2095.1	2090.5
17.5°	1995.3	2002.2	2036.5	2101.6	2182.7	2243.1	2259.4	2219.9	2161.3	2122.4	2116.0
20°	1925.1	1931.5	1979.1	2070.2	2187.5	2283.2	2325.5	2290.8	2217.6	2164.8	2155.0
22.5°	1833.9	1843.9	1899.5	2016.2	2176.4	2325.0	2401.0	2377.2	2283.2	2210.0	2196.7
25°	1736.5	1746.9	1811.9	1950.1	2148.0	2355.1	2490.3	2475.3	2357.5	2266.4	2247.8
27.5°	1652.3	1663.4	1734.2	1884.5	2103.8	2366.7	2578.6	2586.2	2447.4	2328.5	2308.7
30°	1586.2	1596.6	1672.1	1831.7	2046.9	2355.1	2655.8	2708.0	2539.1	2382.4	2354.0
32.5°	1513.6	1526.9	1606.5	1767.2	1979.7	2327.3	2723.1	2839.8	2645.3	2440.4	2404.4
35°	1421.9	1434.1	1517.7	1679.1	1891.4	2282.6	2779.4	2986.0	2797.4	2528.7	2488.6
37.5°	1310.5	1322.0	1405.1	1568.8	1803.8	2219.9	2822.3	3150.8	2978.4	2655.8	2602.4
40°	1198.4	1209.5	1287.3	1445.7	1698.7	2139.8	2837.4	3312.2	3186.2	2830.4	2773.5
42.5°	1095.7	1105.6	1177.0	1324.4	1581.0	2037.7	2817.7	3452.6	3372.6	2952.3	2879.2
45°	1001.1	1009.8	1073.1	1210.6	1458.5	1913.5	2758.5	3603.5	3594.3	3039.4	2940.7
47.5°	893.2	901.9	967.5	1100.3	1336.0	1767.8	2658.1	3752.1	3902.4	3236.7	3123.0
50°	761.5	769.0	836.3	973.2	1208.9	1612.8	2518.8	3868.8	4291.3	3535.6	3392.9
52.5°	605.4	613.5	679.1	816.0	1058.0	1446.3	2335.4	3944.8	4740.4	3972.1	3796.2
55°	450.4	456.1	513.0	636.1	871.1	1256.5	2105.6	3966.2	5250.0	4568.6	4348.7
57.5°	326.8	330.3	366.7	458.5	660.5	1019.2	1826.4	3910.6	5856.5	5333.6	5056.7
60°	264.7	265.8	276.9	317.4	459.1	751.0	1489.2	3719.0	6514.7	6319.6	5970.8
62.5°	240.3	240.3	243.1	254.2	310.5	495.6	1081.3	3322.0	7220.4	7565.7	7098.5
65°	223.4	223.4	224.6	229.8	244.9	315.7	682.5	2675.6	7815.3	9025.3	8434.5
67.5°	208.4	208.9	208.4	210.1	218.8	233.3	395.9	1847.9	8135.6	10537.8	9900.0
70°	192.7	193.8	191.0	191.0	197.9	198.4	247.8	1013.3	7869.8	11805.3	11637.5
72.5°	174.1	175.9	171.2	170.0	175.3	172.9	186.3	486.4	6756.7	12183.8	12624.8
75°	157.8	160.2	149.8	146.9	146.9	145.1	151.5	249.6	4385.3	9938.8	10630.7
77.5°	143.4	148.0	131.2	121.9	119.5	114.3	123.6	152.6	1918.1	4666.2	4569.2
80°	118.4	124.7	107.9	97.0	92.9	87.0	97.5	106.8	570.5	1083.5	1037.7
82.5°	88.3	91.1	76.6	69.1	65.6	61.5	73.1	74.3	185.7	383.7	433.6
85°	56.3	57.5	47.0	40.6	38.8	37.1	46.4	40.6	70.8	282.1	409.7
87.5°	19.8	22.7	18.0	16.3	17.4	14.6	21.4	12.2	19.8	199.1	246.6
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)