

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: P960897

Luminaire Tested: **NAV-SB1D-740-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960897
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1D-740-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 4000K, 900mA LIGHTSQUARE WITH 26 LEDS AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11367.2 lumens
Efficiency: N/A
Efficacy: 142.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
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

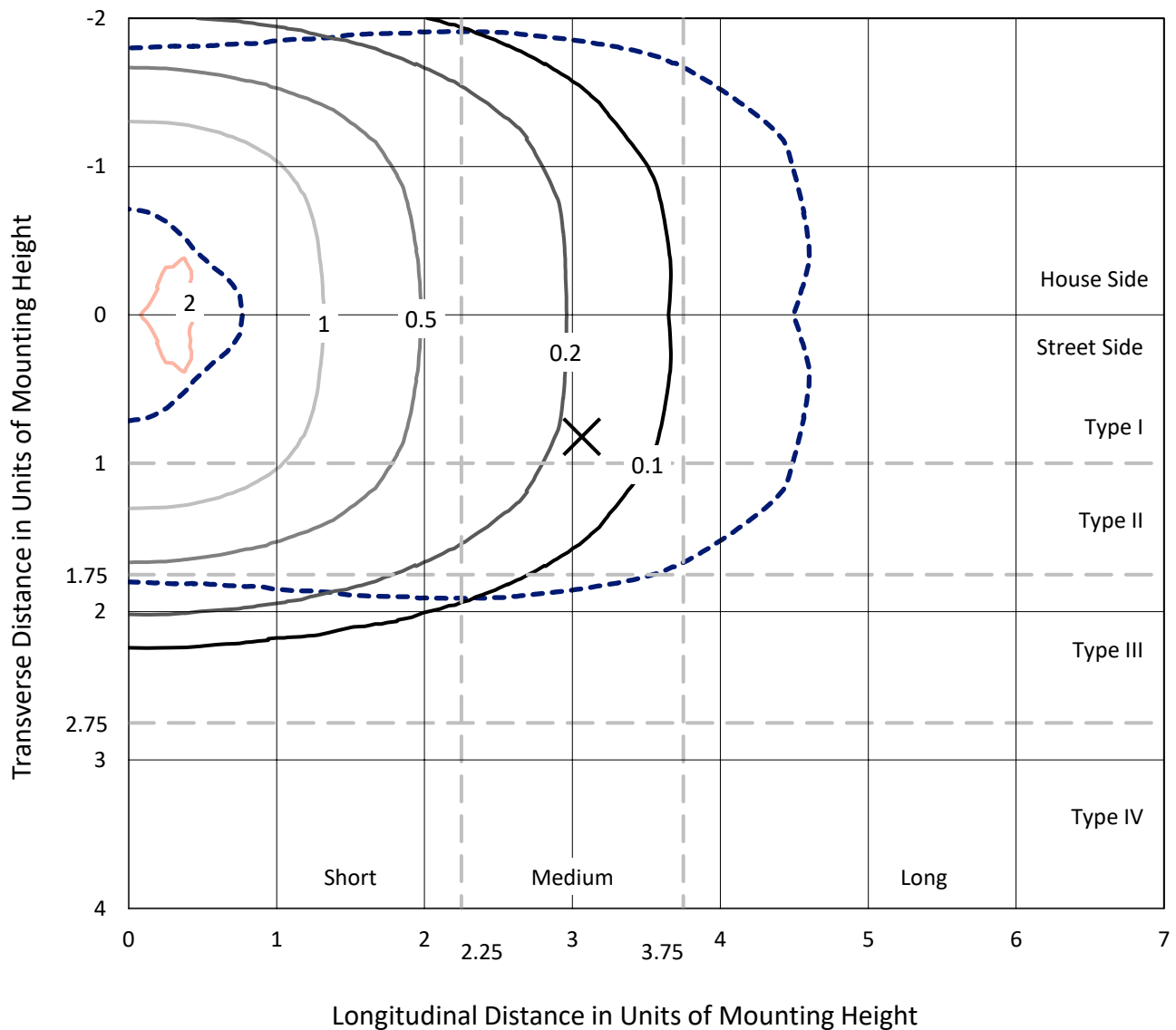


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Iso-Footcandle Lines of Horizontal Illumination

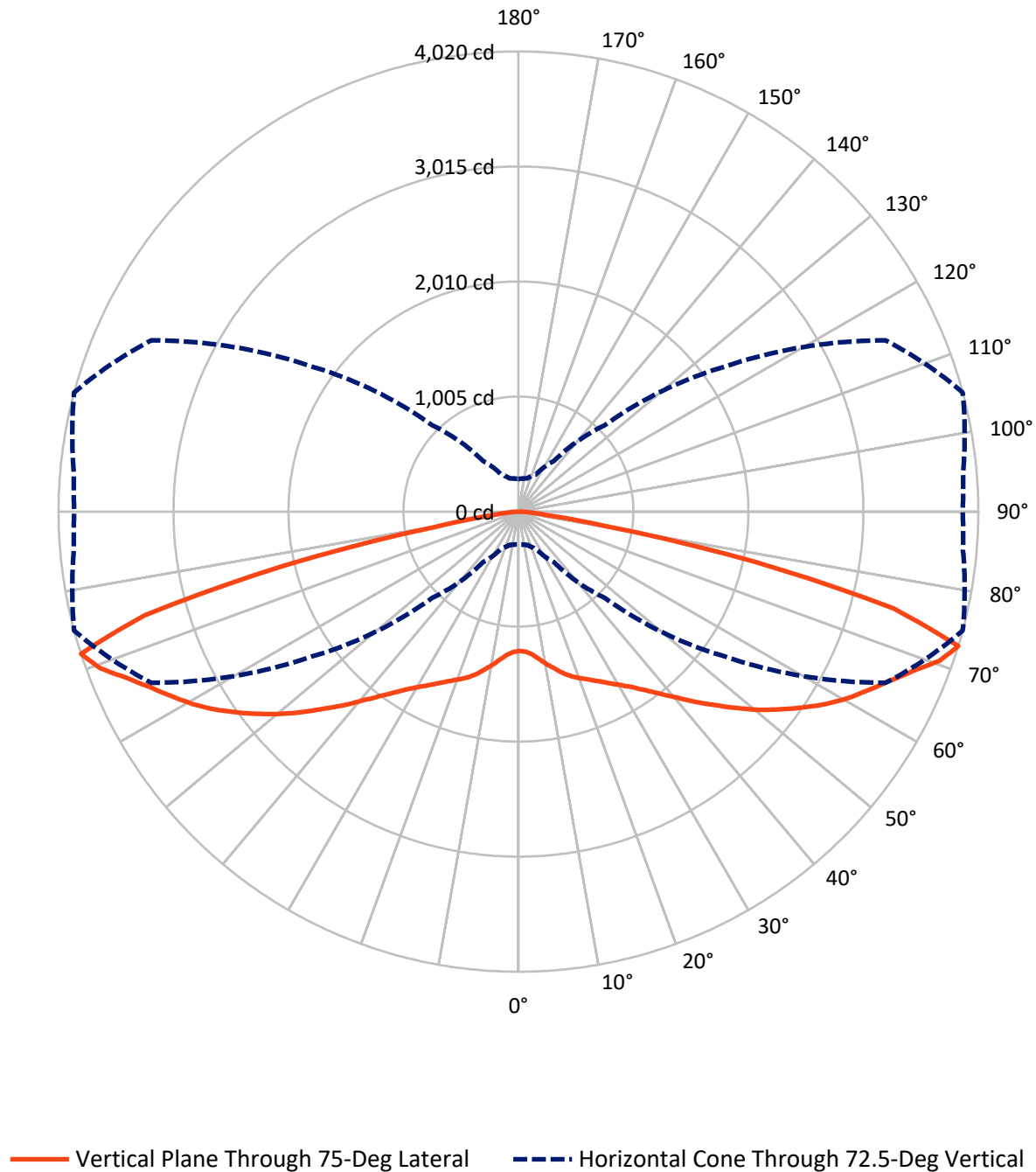
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5683.6	0.0	5683.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5683.6	0.0	5683.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	11367.2	0.0	11367.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.3	1.0
10°-20°	393.4	3.5
20°-30°	760.2	6.7
30°-40°	1283.6	11.3
40°-50°	2035.6	17.9
50°-60°	2725.5	24.0
60°-70°	2593.8	22.8
70°-80°	1353.5	11.9
80°-90°	102.4	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°	11367.2	100.0
0°-180°	11367.2	100.0

Coefficient of Utilization



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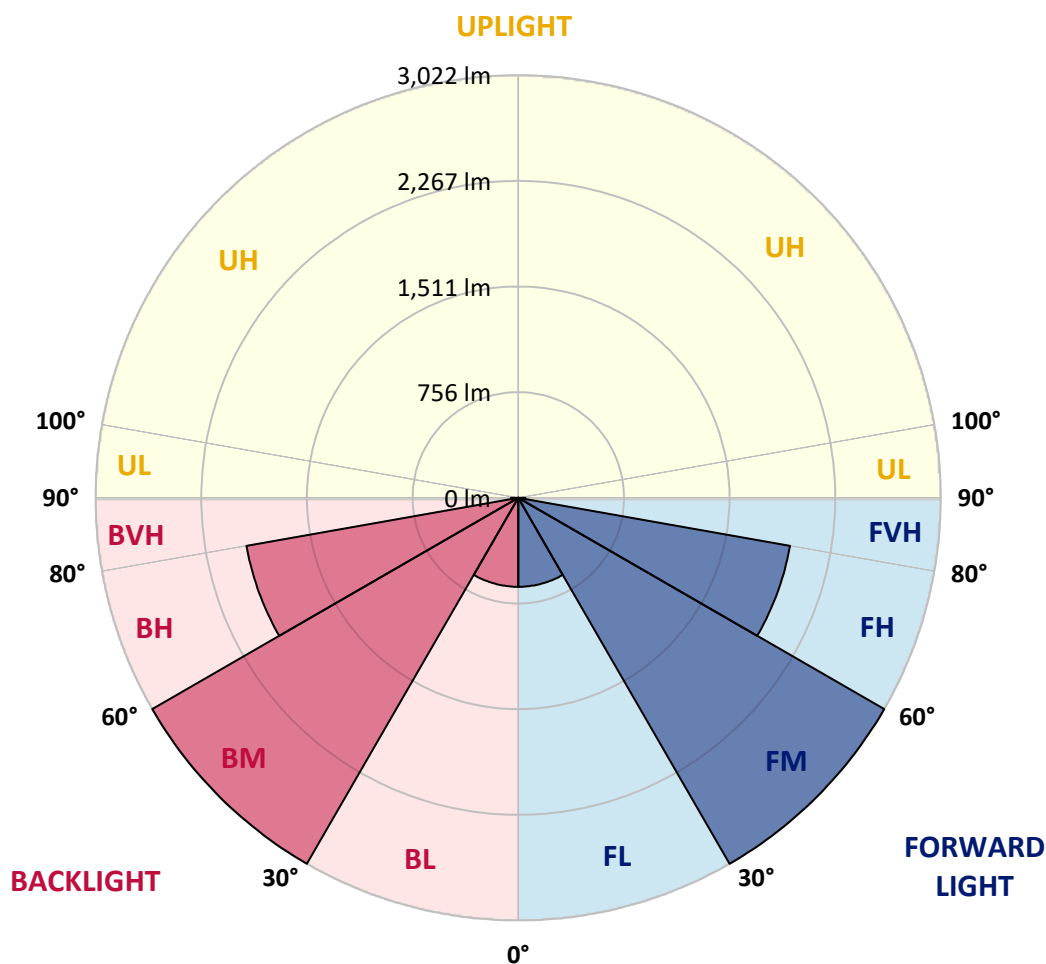
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	636.4	5.6			
FM	(30°-60°)	3022.3	26.6			
FH	(60°-80°)	1973.6	17.4			G2/5000
FVH	(80°-90°)	51.2	0.5			G1/100
BL	(0°-30°)	636.4	5.6	B2/1000		
BM	(30°-60°)	3022.3	26.6	B3/5000		
BH	(60°-80°)	1973.6	17.4	B3/2500		G3/2500
BVH	(80°-90°)	51.2	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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1217.6	1217.6	1217.6	1217.6	1217.6	1217.6	1217.6	1217.6	1217.6	1217.6	1217.6
2.5°	1217.6	1216.5	1217.6	1218.8	1218.2	1218.2	1221.1	1222.8	1226.3	1225.8	1225.2
5°	1209.5	1208.9	1213.6	1218.8	1222.8	1229.8	1238.5	1245.0	1253.1	1254.8	1254.8
7.5°	1205.4	1203.7	1211.9	1221.1	1233.9	1251.3	1268.1	1285.6	1299.5	1304.1	1305.2
10°	1208.4	1208.9	1220.0	1237.4	1257.7	1282.1	1305.8	1335.5	1355.2	1359.9	1364.5
12.5°	1221.7	1220.6	1239.1	1267.0	1294.8	1325.6	1353.4	1385.9	1407.4	1418.5	1423.1
15°	1246.1	1243.7	1269.9	1311.1	1351.7	1387.6	1410.3	1441.0	1466.1	1480.0	1485.2
17.5°	1275.1	1276.2	1310.5	1363.9	1417.3	1458.0	1479.4	1495.1	1514.2	1526.4	1532.2
20°	1326.1	1328.5	1366.8	1430.1	1491.0	1537.4	1554.8	1549.1	1554.2	1563.5	1570.5
22.5°	1394.6	1395.8	1438.8	1507.3	1571.1	1622.2	1633.7	1610.0	1595.4	1601.9	1606.5
25°	1474.2	1481.7	1524.7	1594.9	1660.5	1709.2	1714.4	1678.4	1642.5	1644.2	1647.1
27.5°	1571.1	1578.1	1621.6	1691.2	1758.0	1800.3	1799.8	1751.6	1698.7	1685.4	1689.5
30°	1676.2	1683.7	1728.4	1800.3	1862.4	1899.6	1891.4	1834.0	1758.6	1733.6	1736.5
32.5°	1800.9	1805.5	1850.8	1922.8	1980.3	2009.8	1993.0	1922.2	1828.2	1799.8	1806.8
35°	1951.8	1958.8	1992.4	2060.4	2110.9	2135.2	2106.8	2023.2	1917.6	1885.7	1890.3
37.5°	2124.2	2119.5	2157.8	2218.2	2260.0	2275.1	2236.2	2136.9	2019.8	1982.0	1988.9
40°	2304.1	2301.7	2343.6	2401.6	2424.2	2433.6	2376.1	2267.5	2137.5	2096.9	2110.3
42.5°	2467.2	2465.4	2521.7	2586.2	2613.4	2603.0	2530.4	2406.3	2274.0	2227.5	2239.1
45°	2597.8	2595.5	2664.5	2755.1	2808.5	2791.1	2693.5	2559.4	2412.0	2363.9	2374.9
47.5°	2698.2	2699.3	2773.6	2885.7	2979.1	2985.5	2860.2	2715.6	2564.1	2509.6	2525.8
50°	2770.8	2774.2	2853.7	2977.9	3105.6	3161.9	3030.2	2875.7	2721.4	2659.9	2678.4
52.5°	2788.7	2795.1	2890.9	3036.6	3186.8	3294.2	3203.1	3029.6	2870.5	2812.0	2827.1
55°	2693.0	2705.7	2827.1	3032.0	3236.7	3381.3	3355.1	3185.7	3020.9	2960.5	2977.3
57.5°	2473.0	2491.0	2632.6	2900.1	3225.8	3441.0	3473.0	3335.5	3171.1	3113.1	3126.5
60°	2164.8	2186.3	2322.1	2614.1	3070.2	3463.2	3556.0	3481.1	3309.3	3253.0	3265.2
62.5°	1700.0	1727.7	1890.3	2232.8	2741.7	3360.4	3626.8	3612.8	3433.5	3363.3	3371.4
65°	1090.5	1120.1	1291.3	1695.9	2303.5	3045.8	3648.8	3741.1	3564.6	3466.7	3478.7
67.5°	657.5	671.0	755.6	1027.9	1683.7	2571.6	3461.9	3883.3	3717.9	3596.0	3605.3
70°	420.8	428.3	478.8	603.6	951.8	1876.4	2998.8	3910.0	3903.6	3729.0	3727.8
72.5°	285.6	287.8	301.2	357.5	538.6	1066.2	2211.8	3539.7	4019.7	3900.1	3881.6
75°	208.9	221.7	243.1	253.1	305.9	532.8	1267.5	2487.0	3387.6	3439.9	3313.4
77.5°	155.5	156.1	185.7	197.3	218.2	283.8	536.3	1388.3	2103.3	2208.4	1969.8
80°	131.7	124.7	124.2	159.0	164.2	177.0	239.7	479.4	753.4	456.7	345.3
82.5°	109.7	102.2	92.2	124.2	112.0	108.5	103.9	195.1	239.7	117.8	100.4
85°	76.6	73.1	69.6	81.3	63.9	54.5	49.9	91.1	101.0	49.9	44.1
87.5°	33.1	34.2	34.8	36.0	26.6	19.2	19.2	25.5	25.5	19.8	14.6
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)