

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: P959843

Luminaire Tested: **NAV-SB1B-740-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959843
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-SB1B-740-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 4000K, 450mA LIGHTSQUARE WITH 26 LEDS AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: -

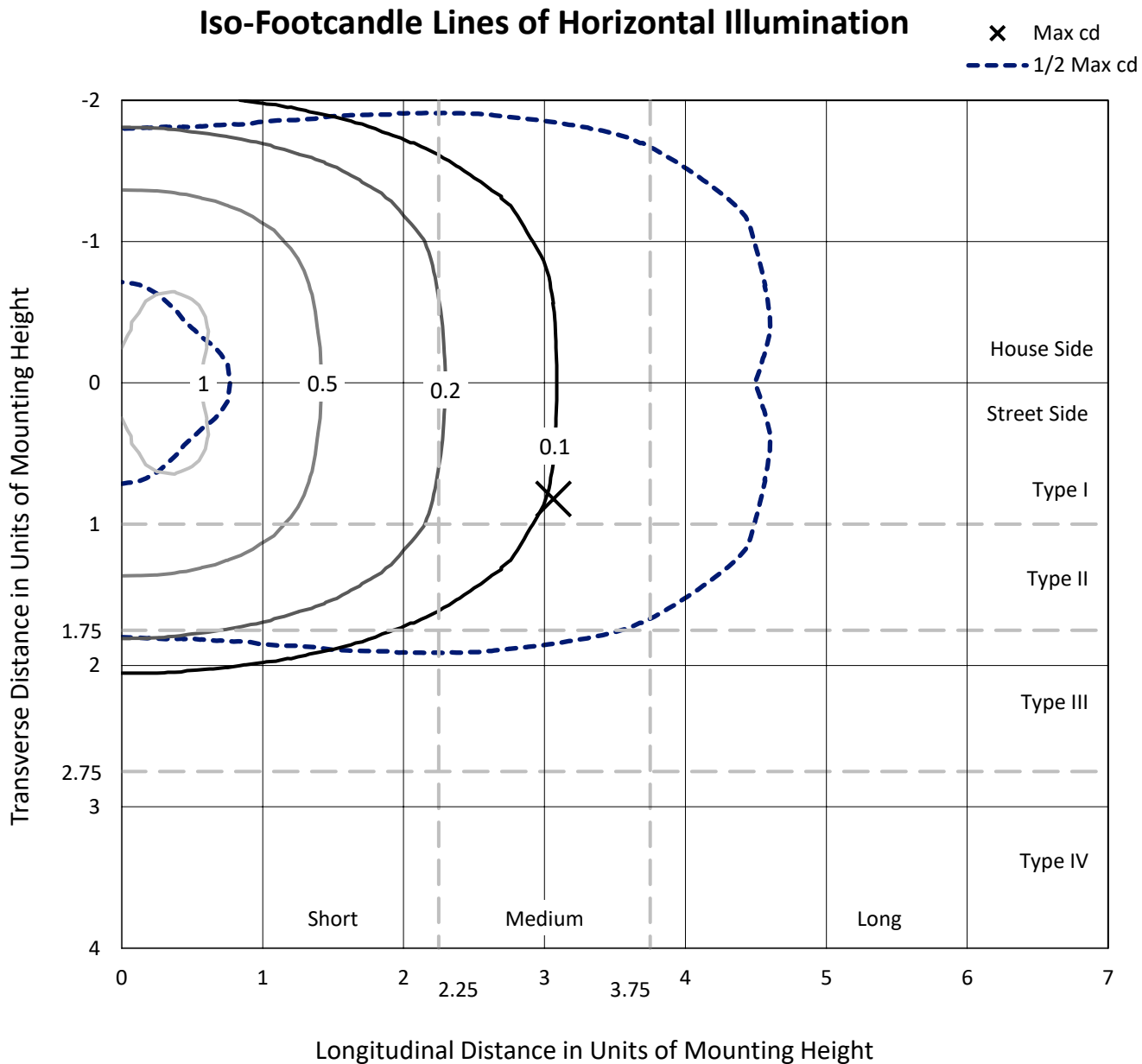
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6290.4 lumens
Efficiency: N/A
Efficacy: 158.1 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): 39.8
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



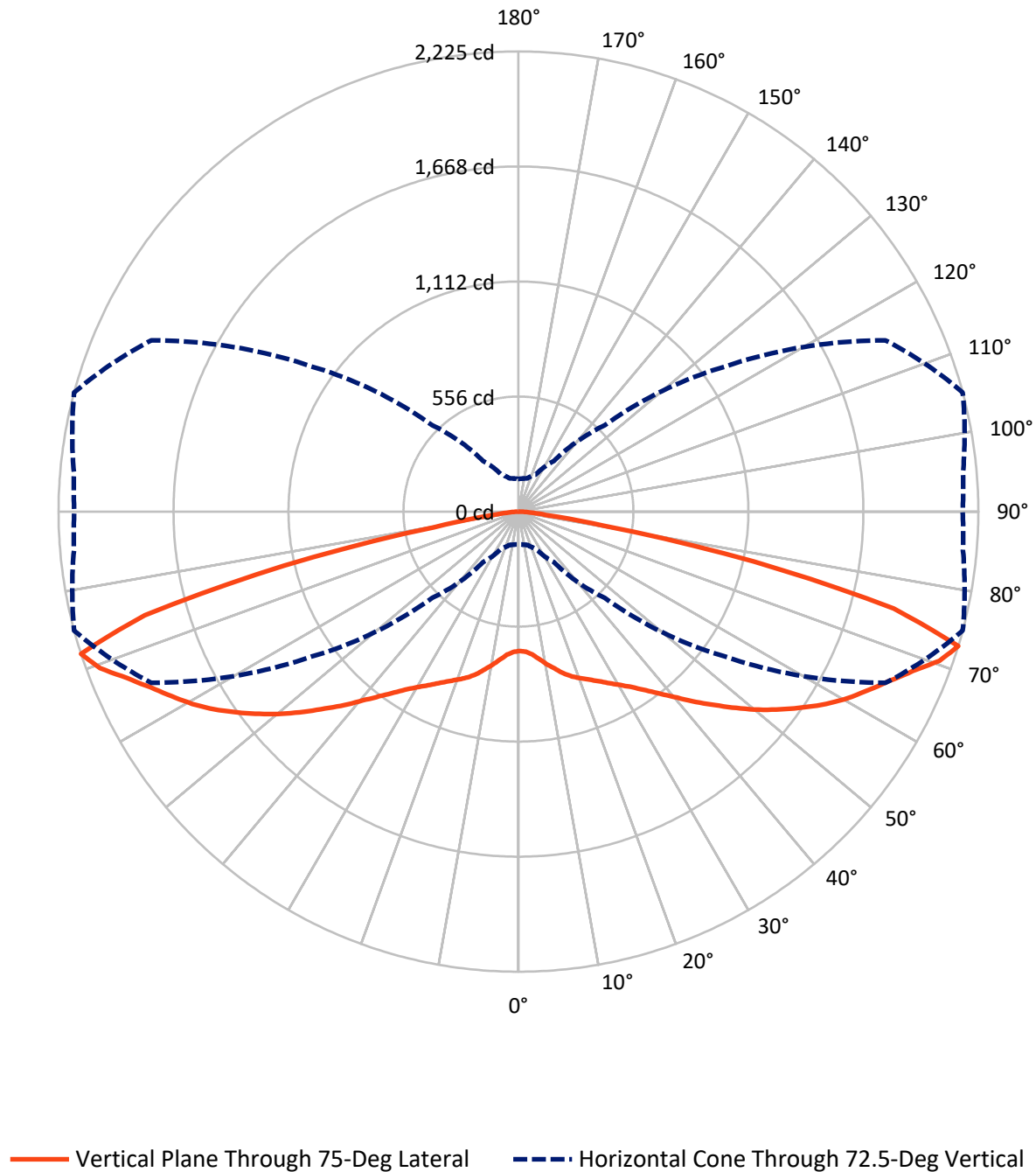
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Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3145.2	0.0	3145.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3145.2	0.0	3145.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	6290.4	0.0	6290.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.0	1.0
10°-20°	217.7	3.5
20°-30°	420.7	6.7
30°-40°	710.3	11.3
40°-50°	1126.5	17.9
50°-60°	1508.2	24.0
60°-70°	1435.3	22.8
70°-80°	749.0	11.9
80°-90°	56.7	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°	6290.4	100.0
0°-180°	6290.4	100.0

Coefficient of Utilization



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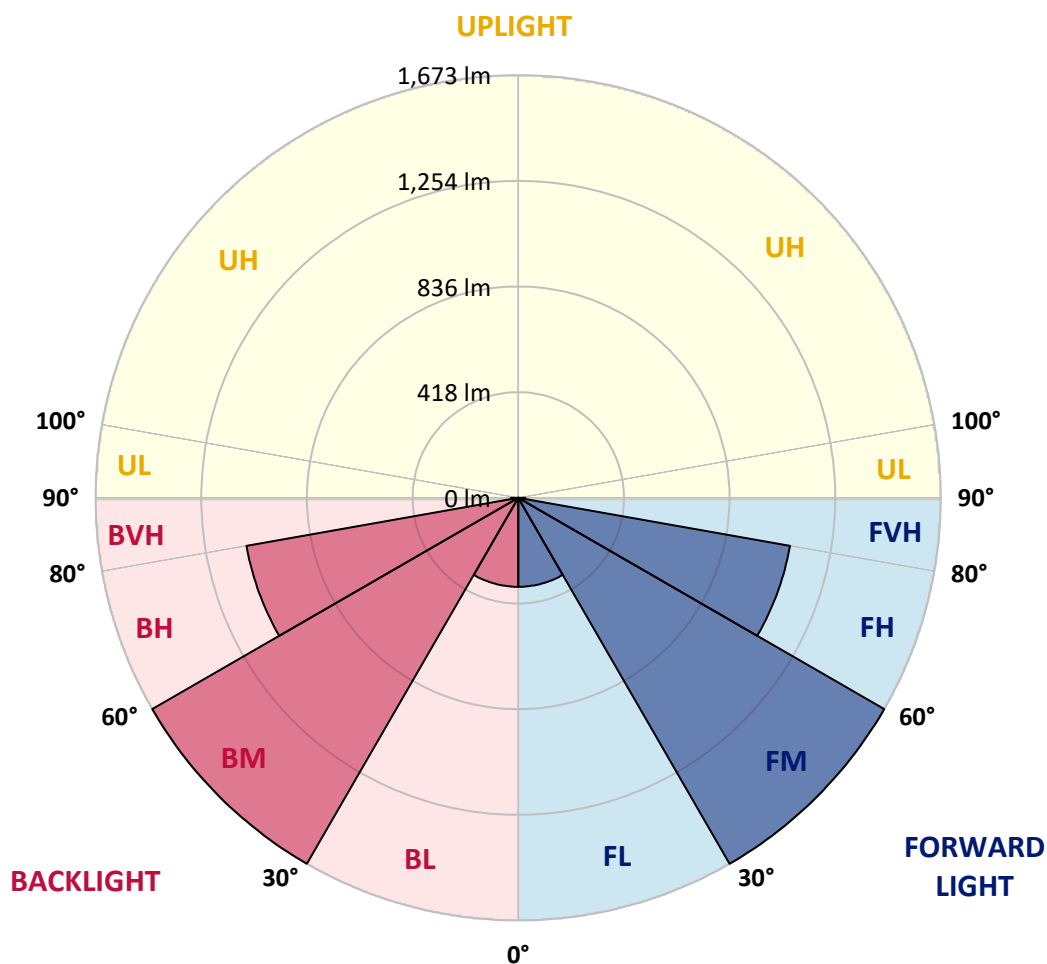
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	352.2	5.6			
FM	(30°-60°)	1672.5	26.6			
FH	(60°-80°)	1092.2	17.4			G1/1800
FVH	(80°-90°)	28.4	0.5			G1/100
BL	(0°-30°)	352.2	5.6	B1/500		
BM	(30°-60°)	1672.5	26.6	B2/2500		
BH	(60°-80°)	1092.2	17.4	B3/2500		G3/2500
BVH	(80°-90°)	28.4	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°	673.8	673.8	673.8	673.8	673.8	673.8	673.8	673.8	673.8	673.8	673.8
2.5°	673.8	673.2	673.8	674.4	674.1	674.1	675.8	676.7	678.7	678.3	678.0
5°	669.3	669.0	671.6	674.4	676.7	680.6	685.4	688.9	693.4	694.3	694.3
7.5°	667.1	666.1	670.6	675.8	682.9	692.5	701.7	711.3	719.1	721.7	722.3
10°	668.7	669.0	675.1	684.7	696.0	709.5	722.6	739.0	749.9	752.6	755.1
12.5°	676.1	675.4	685.7	701.1	716.6	733.6	749.0	767.0	778.8	784.9	787.5
15°	689.5	688.3	702.7	725.5	748.0	767.9	780.4	797.4	811.3	819.0	821.8
17.5°	705.6	706.2	725.2	754.7	784.3	806.8	818.7	827.4	837.9	844.7	847.9
20°	733.9	735.1	756.3	791.4	825.1	850.7	860.4	857.2	860.1	865.2	869.1
22.5°	771.8	772.4	796.2	834.0	869.4	897.7	904.0	890.9	882.9	886.4	889.0
25°	815.8	820.0	843.7	882.6	918.9	945.9	948.7	928.9	908.9	909.9	911.5
27.5°	869.4	873.3	897.4	935.9	972.8	996.3	996.0	969.3	940.0	932.6	934.9
30°	927.5	931.7	956.4	996.3	1030.6	1051.2	1046.7	1014.9	973.1	959.3	960.9
32.5°	996.6	999.2	1024.2	1064.1	1095.8	1112.2	1102.9	1063.7	1011.7	996.0	999.8
35°	1080.1	1083.9	1102.6	1140.1	1168.1	1181.6	1165.8	1119.6	1061.2	1043.4	1046.0
37.5°	1175.5	1172.9	1194.1	1227.5	1250.6	1259.0	1237.5	1182.5	1117.7	1096.8	1100.6
40°	1275.1	1273.8	1296.9	1329.0	1341.5	1346.6	1314.9	1254.8	1182.8	1160.4	1167.8
42.5°	1365.3	1364.4	1395.5	1431.1	1446.3	1440.4	1400.4	1331.6	1258.4	1232.7	1239.1
45°	1437.6	1436.2	1474.5	1524.6	1554.1	1544.5	1490.6	1416.3	1334.8	1308.1	1314.3
47.5°	1493.1	1493.7	1534.8	1596.8	1648.6	1652.1	1582.7	1502.8	1418.9	1388.8	1397.7
50°	1533.3	1535.2	1579.2	1647.9	1718.6	1749.8	1676.8	1591.4	1505.9	1471.9	1482.3
52.5°	1543.2	1546.7	1599.7	1680.4	1763.5	1823.0	1772.5	1676.5	1588.5	1556.1	1564.5
55°	1490.2	1497.3	1564.5	1677.8	1791.2	1871.1	1856.7	1762.9	1671.7	1638.3	1647.6
57.5°	1368.5	1378.4	1456.8	1604.8	1785.0	1904.2	1921.9	1845.8	1754.9	1722.7	1730.2
60°	1197.9	1209.8	1285.0	1446.6	1699.0	1916.4	1967.8	1926.4	1831.4	1800.2	1806.9
62.5°	940.7	956.1	1046.0	1235.5	1517.2	1859.6	2007.0	1999.3	1900.0	1861.2	1865.7
65°	603.5	619.8	714.6	938.5	1274.7	1685.5	2019.2	2070.3	1972.6	1918.4	1925.1
67.5°	363.9	371.3	418.2	568.8	931.7	1423.1	1915.8	2148.9	2057.4	1989.9	1995.2
70°	232.9	237.0	265.0	334.0	526.7	1038.3	1659.5	2163.8	2160.2	2063.5	2062.9
72.5°	158.1	159.3	166.7	197.8	298.1	590.0	1224.0	1958.8	2224.5	2158.2	2148.0
75°	115.6	122.7	134.6	140.0	169.2	294.8	701.4	1376.3	1874.7	1903.6	1833.5
77.5°	86.1	86.4	102.8	109.2	120.7	157.0	296.7	768.2	1163.9	1222.1	1090.1
80°	72.9	69.1	68.8	88.0	90.9	98.0	132.6	265.3	416.9	252.8	191.1
82.5°	60.7	56.5	51.0	68.8	62.0	60.1	57.5	107.9	132.6	65.2	55.6
85°	42.4	40.5	38.5	45.0	35.4	30.2	27.6	50.4	55.9	27.6	24.4
87.5°	18.3	19.0	19.3	19.9	14.8	10.6	10.6	14.1	14.1	11.0	8.0
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)