

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: P961424

Luminaire Tested: **NAV-SB2A-740-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961424
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-SB2A-740-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10017.3 lumens
Efficiency: N/A
Efficacy: 174.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 57.3
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



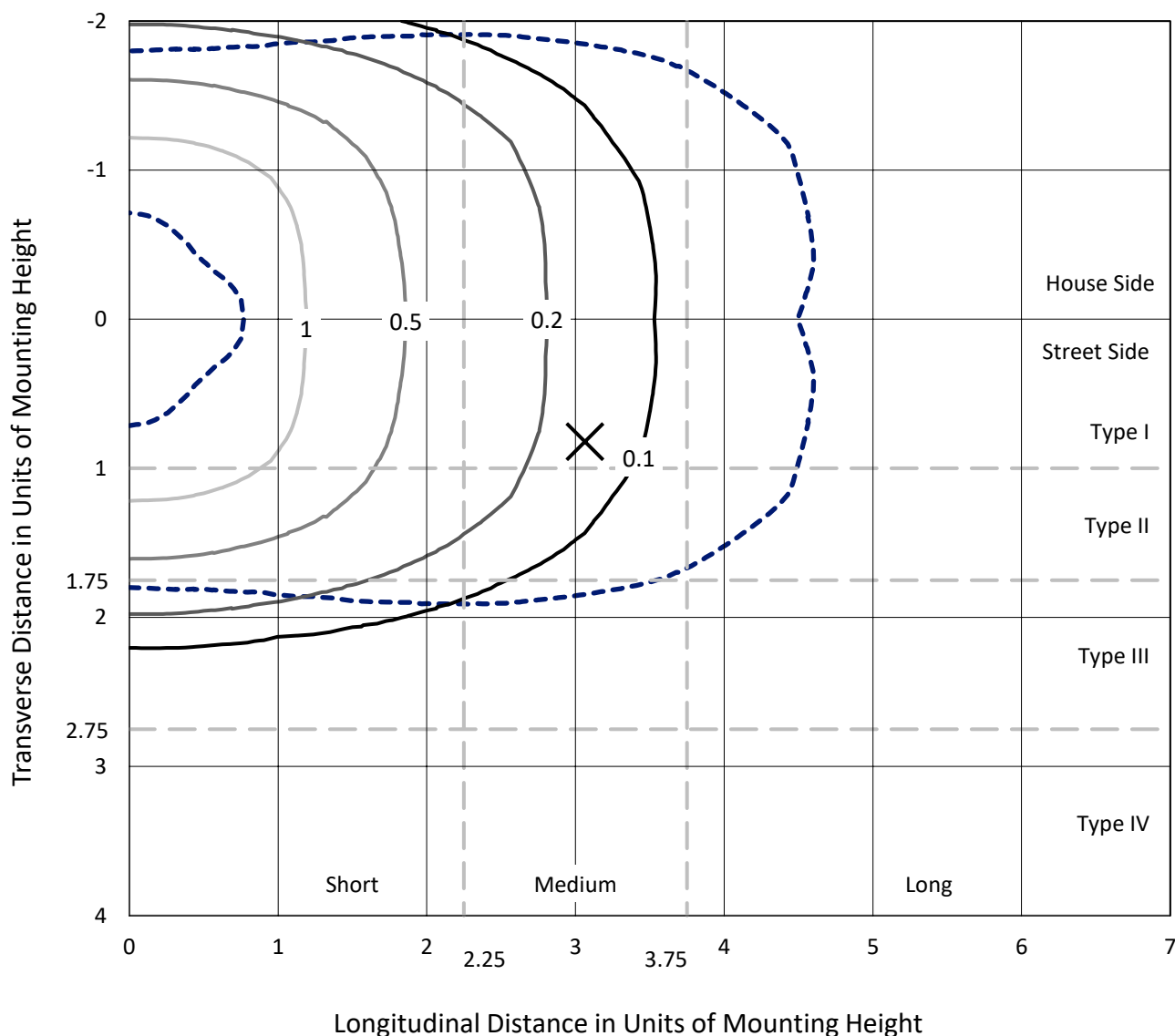
REPORT NUMBER: P961424

CATALOG NUMBER: NAV-SB2A-740-U-RW

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

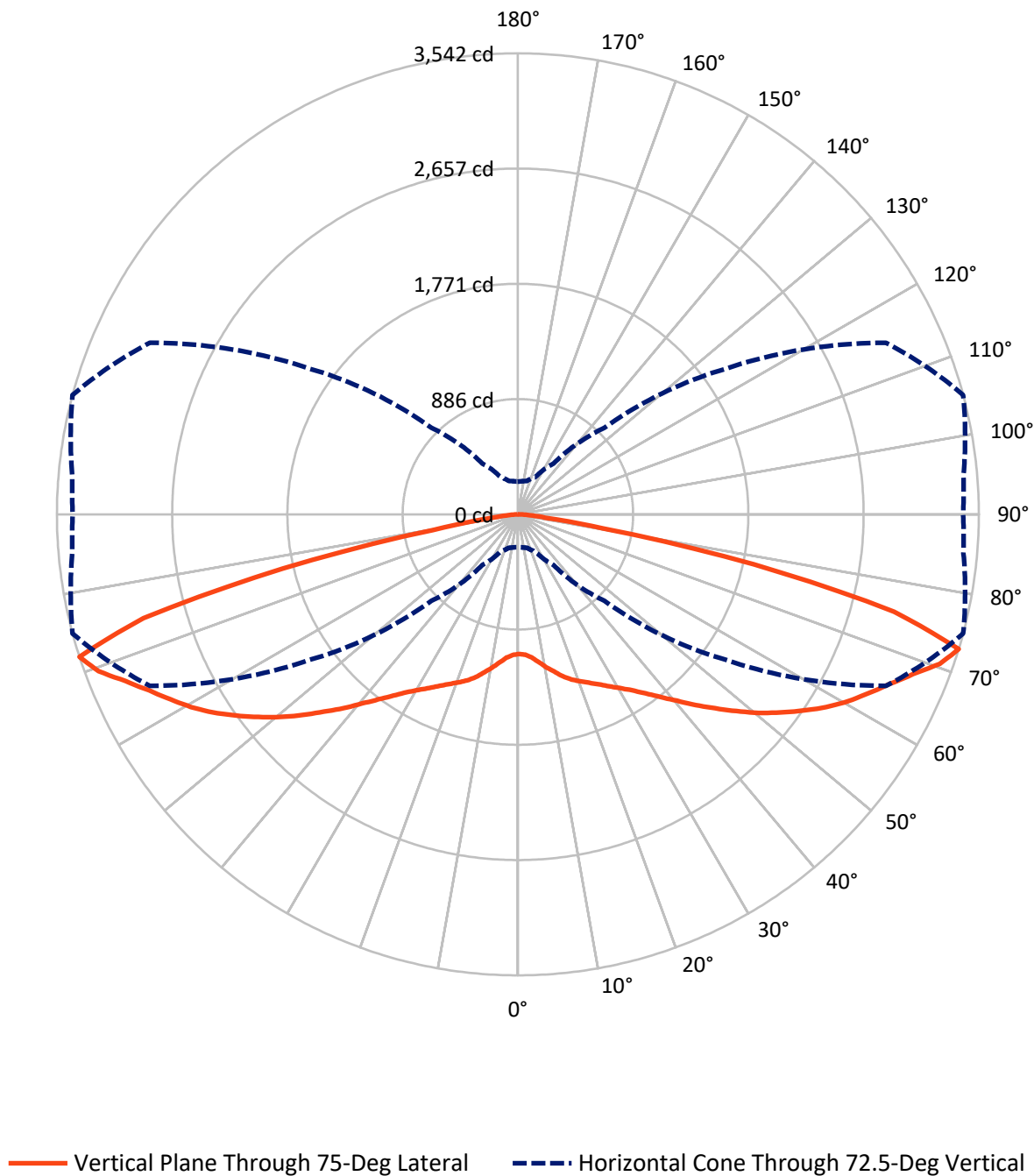


Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
Type III - Medium - N/A

REPORT NUMBER: P961424

CATALOG NUMBER: NAV-SB2A-740-U-RW

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5008.7	0.0	5008.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5008.7	0.0	5008.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	10017.3	0.0	10017.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.1	1.0
10°-20°	346.7	3.5
20°-30°	669.9	6.7
30°-40°	1131.2	11.3
40°-50°	1793.9	17.9
50°-60°	2401.8	24.0
60°-70°	2285.7	22.8
70°-80°	1192.8	11.9
80°-90°	90.3	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°	10017.3	100.0
0°-180°	10017.3	100.0

Coefficient of Utilization



REPORT NUMBER: P961424

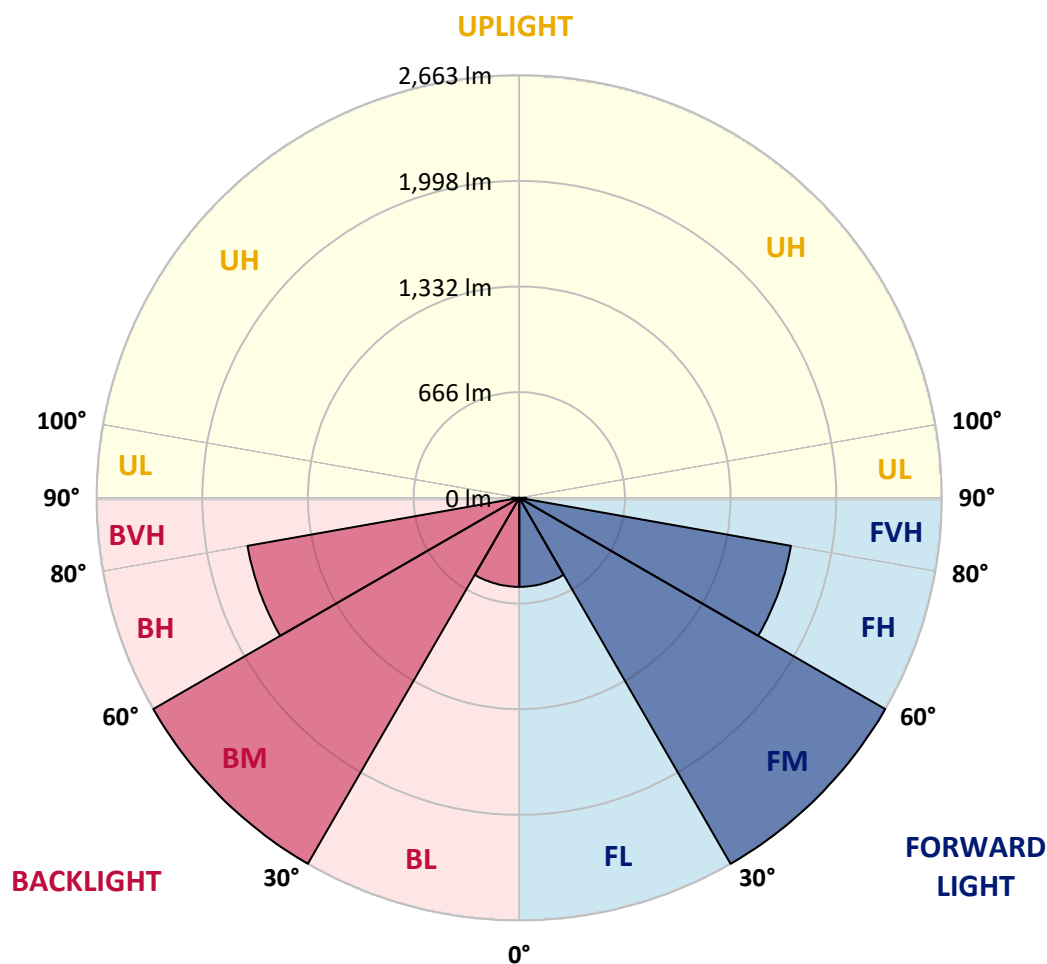
CATALOG NUMBER: NAV-SB2A-740-U-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	560.8	5.6			
FM	(30°-60°)	2663.4	26.6			
FH	(60°-80°)	1739.2	17.4			G1/1800
FVH	(80°-90°)	45.1	0.5			G1/100
BL	(0°-30°)	560.8	5.6	B2/1000		
BM	(30°-60°)	2663.4	26.6	B3/5000		
BH	(60°-80°)	1739.2	17.4	B3/2500		G3/2500
BVH	(80°-90°)	45.1	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 III Medium



REPORT NUMBER: P961424

CATALOG NUMBER: NAV-SB2A-740-U-RW

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1073.1	1073.1	1073.1	1073.1	1073.1	1073.1	1073.1	1073.1	1073.1	1073.1	1073.1
2.5°	1073.1	1072.0	1073.1	1074.1	1073.6	1073.6	1076.1	1077.7	1080.7	1080.1	1079.7
5°	1065.9	1065.4	1069.5	1074.1	1077.7	1083.7	1091.4	1097.1	1104.2	1105.8	1105.8
7.5°	1062.3	1060.8	1067.9	1076.1	1087.3	1102.7	1117.6	1132.8	1145.1	1149.2	1150.3
10°	1064.9	1065.4	1075.1	1090.4	1108.3	1129.9	1150.8	1176.9	1194.2	1198.3	1202.4
12.5°	1076.7	1075.6	1091.9	1116.5	1141.0	1168.2	1192.7	1221.4	1240.2	1250.0	1254.1
15°	1098.1	1096.0	1119.1	1155.4	1191.2	1222.9	1242.8	1270.0	1291.9	1304.2	1308.8
17.5°	1123.7	1124.7	1154.9	1201.9	1249.0	1284.7	1303.7	1317.5	1334.3	1345.1	1350.2
20°	1168.7	1170.8	1204.5	1260.2	1313.9	1354.8	1370.2	1365.1	1369.7	1377.9	1384.0
22.5°	1229.1	1230.1	1267.9	1328.3	1384.5	1429.6	1439.7	1418.8	1406.0	1411.6	1415.7
25°	1299.1	1305.7	1343.6	1405.5	1463.3	1506.2	1510.8	1479.2	1447.4	1448.9	1451.5
27.5°	1384.5	1390.6	1429.1	1490.4	1549.2	1586.5	1586.0	1543.5	1497.0	1485.2	1488.8
30°	1477.1	1483.7	1523.1	1586.5	1641.2	1674.0	1666.9	1616.2	1549.7	1527.8	1530.3
32.5°	1587.0	1591.1	1631.1	1694.4	1745.1	1771.2	1756.3	1693.9	1611.1	1586.0	1592.1
35°	1720.1	1726.2	1755.8	1815.7	1860.2	1881.7	1856.6	1782.9	1689.8	1661.7	1665.8
37.5°	1872.0	1867.9	1901.6	1954.8	1991.6	2004.9	1970.7	1883.1	1779.9	1746.6	1752.7
40°	2030.5	2028.5	2065.3	2116.4	2136.3	2144.5	2093.9	1998.2	1883.6	1847.9	1859.7
42.5°	2174.2	2172.7	2222.3	2279.1	2303.1	2293.8	2230.0	2120.5	2003.9	1963.0	1973.2
45°	2289.2	2287.2	2348.1	2427.9	2475.0	2459.6	2373.7	2255.5	2125.6	2083.2	2092.8
47.5°	2377.8	2378.8	2444.2	2542.9	2625.3	2631.0	2520.5	2393.1	2259.6	2211.5	2225.9
50°	2441.7	2444.7	2514.8	2624.3	2736.9	2786.5	2670.3	2534.3	2398.2	2344.0	2360.4
52.5°	2457.5	2463.2	2547.5	2676.0	2808.4	2903.0	2822.7	2669.8	2529.7	2478.0	2491.3
55°	2373.2	2384.5	2491.3	2671.9	2852.4	2979.8	2956.7	2807.4	2662.1	2608.9	2623.8
57.5°	2179.4	2195.1	2320.0	2555.7	2842.6	3032.5	3060.5	2939.3	2794.6	2743.4	2755.2
60°	1907.7	1926.7	2046.3	2303.6	2705.6	3051.8	3133.7	3067.7	2916.3	2866.7	2877.5
62.5°	1498.0	1522.6	1665.8	1967.6	2416.1	2961.3	3196.1	3183.9	3025.8	2963.9	2971.1
65°	961.0	987.1	1138.0	1494.4	2030.0	2684.2	3215.5	3296.8	3141.3	3054.9	3065.7
67.5°	579.4	591.2	665.9	905.8	1483.7	2266.3	3050.8	3422.2	3276.4	3169.0	3177.2
70°	370.8	377.4	422.0	531.9	838.8	1653.5	2642.7	3445.6	3440.0	3286.2	3285.1
72.5°	251.6	253.7	265.5	315.1	474.7	939.5	1949.1	3119.4	3542.3	3437.0	3420.6
75°	184.1	195.4	214.3	223.0	269.6	469.6	1117.0	2191.6	2985.4	3031.4	2919.9
77.5°	137.0	137.6	163.7	173.9	192.3	250.1	472.6	1223.4	1853.5	1946.1	1735.8
80°	116.1	110.0	109.5	140.1	144.7	156.0	211.3	422.5	663.9	402.5	304.3
82.5°	96.7	90.0	81.3	109.5	98.7	95.6	91.5	171.9	211.3	103.8	88.5
85°	67.5	64.5	61.4	71.6	56.3	48.1	44.0	80.3	89.0	44.0	38.8
87.5°	29.1	30.1	30.6	31.7	23.6	16.9	16.9	22.5	22.5	17.4	12.8
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)