

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: P960401

Luminaire Tested: **NAV-SB1C-750-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960401
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-SB1C-750-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 5000K, 615mA LIGHTSQUARE WITH 26 LEDS AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8366 lumens
Efficiency: N/A
Efficacy: 153.8 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

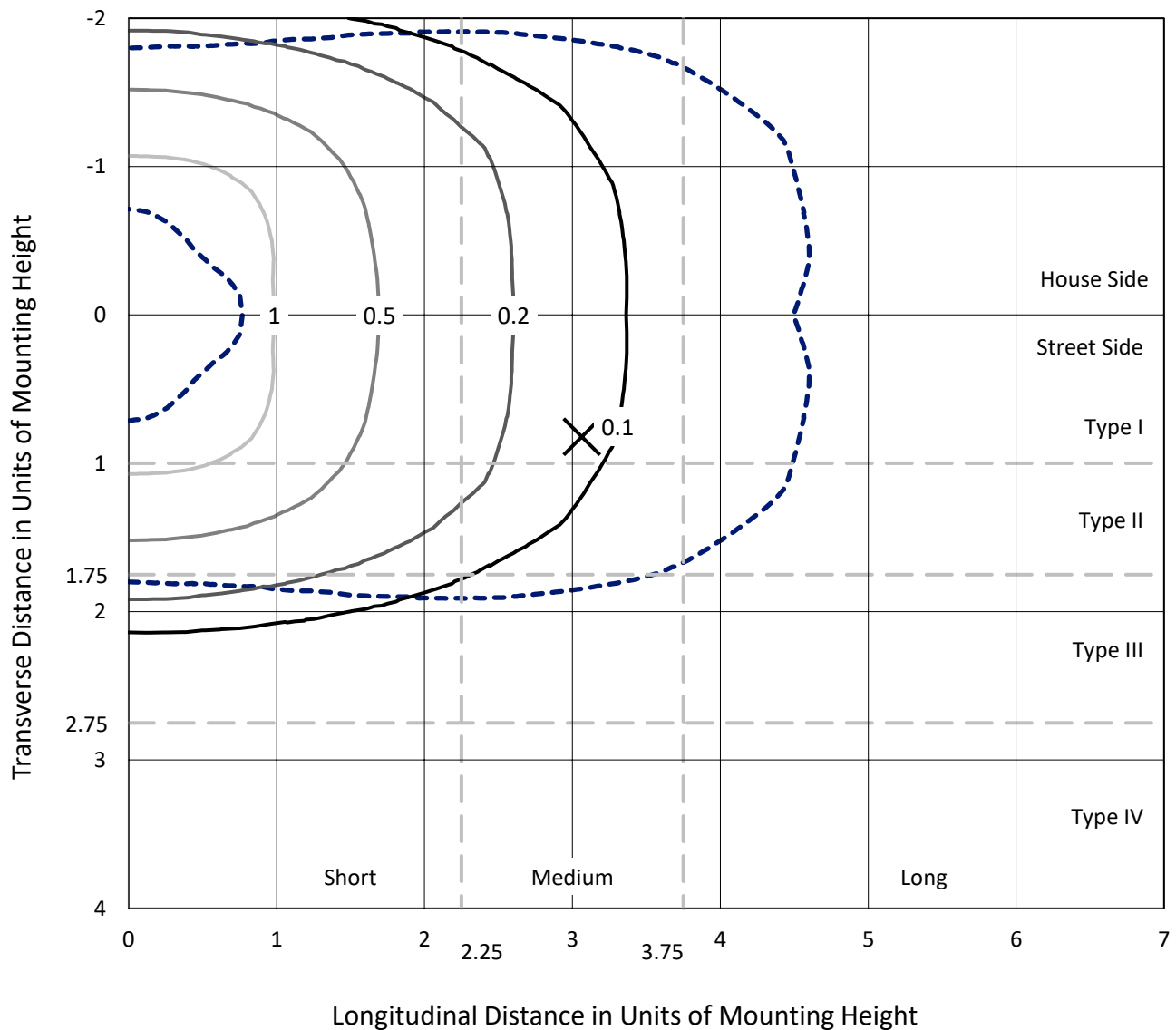
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P960401
CATALOG NUMBER: NAV-SB1C-750-U-RW

Iso-Footcandle Lines of Horizontal Illumination

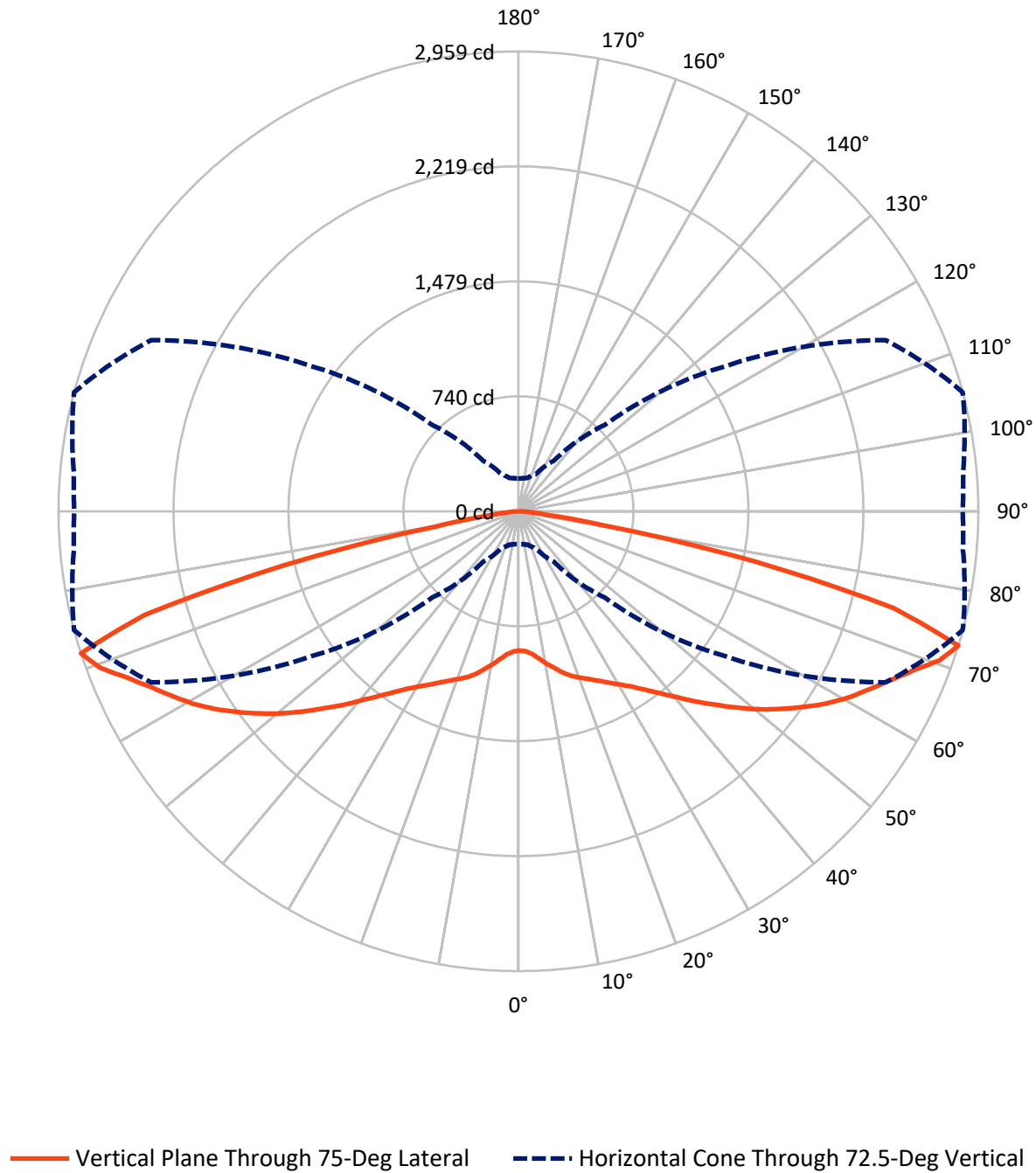
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
Type III - Medium - N/A

REPORT NUMBER: P960401
CATALOG NUMBER: NAV-SB1C-750-U-RW

Luminous Intensity Polar Plot



REPORT NUMBER: P960401

CATALOG NUMBER: NAV-SB1C-750-U-RW

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4183.0	0.0	4183.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4183.0	0.0	4183.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	8366.0	0.0	8366.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.8	1.0
10°-20°	289.5	3.5
20°-30°	559.5	6.7
30°-40°	944.7	11.3
40°-50°	1498.2	17.9
50°-60°	2005.9	24.0
60°-70°	1909.0	22.8
70°-80°	996.1	11.9
80°-90°	75.4	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°	8366.0	100.0
0°-180°	8366.0	100.0

Coefficient of Utilization



REPORT NUMBER: P960401

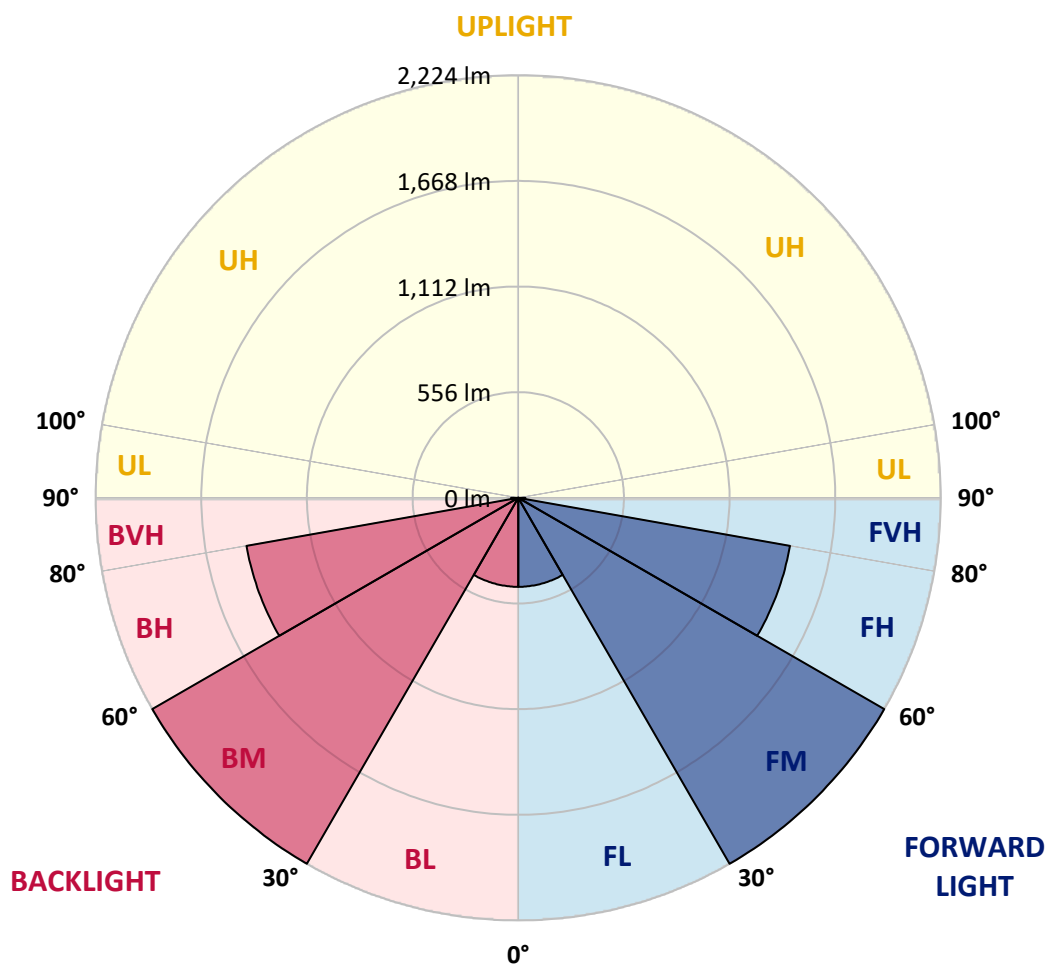
CATALOG NUMBER: NAV-SB1C-750-U-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	468.4	5.6			
FM	(30°-60°)	2224.4	26.6			
FH	(60°-80°)	1452.5	17.4			G1/1800
FVH	(80°-90°)	37.7	0.5			G1/100
BL	(0°-30°)	468.4	5.6	B1/500		
BM	(30°-60°)	2224.4	26.6	B2/2500		
BH	(60°-80°)	1452.5	17.4	B3/2500		G3/2500
BVH	(80°-90°)	37.7	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: P960401

CATALOG NUMBER: NAV-SB1C-750-U-RW

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	896.2	896.2	896.2	896.2	896.2	896.2	896.2	896.2	896.2	896.2	896.2
2.5°	896.2	895.3	896.2	897.0	896.6	896.6	898.7	900.0	902.5	902.1	901.7
5°	890.2	889.7	893.2	897.0	900.0	905.1	911.5	916.2	922.2	923.5	923.5
7.5°	887.1	885.9	891.9	898.7	908.2	921.0	933.4	946.2	956.4	959.8	960.6
10°	889.3	889.7	897.9	910.7	925.7	943.6	961.0	982.9	997.4	1000.8	1004.2
12.5°	899.1	898.3	911.9	932.4	952.9	975.6	996.1	1020.0	1035.9	1044.0	1047.3
15°	917.1	915.3	934.6	964.9	994.9	1021.3	1038.0	1060.6	1079.0	1089.3	1093.1
17.5°	938.5	939.3	964.5	1003.8	1043.1	1073.0	1088.8	1100.3	1114.4	1123.4	1127.7
20°	976.0	977.7	1005.9	1052.5	1097.4	1131.5	1144.3	1140.0	1143.9	1150.8	1155.9
22.5°	1026.4	1027.3	1058.9	1109.3	1156.3	1193.9	1202.4	1184.9	1174.2	1179.0	1182.3
25°	1085.0	1090.5	1122.1	1173.8	1222.1	1258.0	1261.8	1235.3	1208.8	1210.1	1212.3
27.5°	1156.3	1161.4	1193.4	1244.7	1293.9	1325.0	1324.6	1289.1	1250.3	1240.5	1243.4
30°	1233.6	1239.1	1272.0	1325.0	1370.7	1398.1	1392.1	1349.8	1294.3	1275.9	1278.1
32.5°	1325.4	1328.8	1362.1	1415.1	1457.4	1479.2	1466.8	1414.7	1345.5	1324.6	1329.7
35°	1436.5	1441.7	1466.4	1516.4	1553.5	1571.4	1550.5	1489.0	1411.3	1387.8	1391.2
37.5°	1563.3	1559.9	1588.1	1632.5	1663.3	1674.4	1645.8	1572.8	1486.5	1458.7	1463.8
40°	1695.8	1694.0	1724.8	1767.5	1784.2	1791.0	1748.8	1668.9	1573.2	1543.2	1553.1
42.5°	1815.8	1814.6	1856.0	1903.3	1923.4	1915.7	1862.3	1771.0	1673.5	1639.4	1647.9
45°	1911.9	1910.2	1961.0	2027.7	2066.9	2054.1	1982.4	1883.7	1775.2	1739.7	1747.9
47.5°	1985.8	1986.7	2041.3	2123.8	2192.6	2197.3	2104.9	1998.6	1887.1	1846.9	1858.9
50°	2039.2	2041.8	2100.3	2191.7	2285.6	2327.1	2230.1	2116.5	2002.8	1957.6	1971.3
52.5°	2052.5	2057.2	2127.6	2234.8	2345.5	2424.5	2357.4	2229.7	2112.6	2069.5	2080.6
55°	1981.9	1991.4	2080.6	2231.4	2382.2	2488.6	2469.3	2344.6	2223.3	2178.8	2191.2
57.5°	1820.1	1833.3	1937.6	2134.5	2374.1	2532.6	2556.0	2454.8	2333.9	2291.2	2301.0
60°	1593.3	1609.0	1709.0	1923.8	2259.6	2548.8	2617.1	2562.0	2435.6	2394.2	2403.1
62.5°	1251.1	1271.6	1391.2	1643.3	2017.8	2473.2	2669.2	2659.0	2527.0	2475.3	2481.3
65°	802.6	824.4	950.4	1248.1	1695.4	2241.7	2685.5	2753.4	2623.5	2551.3	2560.3
67.5°	484.0	493.7	556.2	756.4	1239.1	1892.7	2547.9	2858.0	2736.3	2646.5	2653.4
70°	309.7	315.2	352.4	444.2	700.5	1381.0	2207.0	2877.7	2873.0	2744.4	2743.5
72.5°	210.1	211.9	221.7	263.1	396.4	784.6	1627.9	2605.1	2958.5	2870.4	2856.8
75°	153.8	163.2	179.0	186.2	225.1	392.2	932.9	1830.3	2493.2	2531.6	2438.6
77.5°	114.5	114.9	136.7	145.2	160.6	208.9	394.7	1021.7	1548.0	1625.3	1449.8
80°	97.0	91.8	91.4	117.1	120.8	130.3	176.4	352.8	554.4	336.2	254.2
82.5°	80.8	75.1	68.0	91.4	82.4	79.8	76.5	143.5	176.4	86.7	73.9
85°	56.4	53.8	51.2	59.8	46.9	40.2	36.7	67.0	74.3	36.7	32.5
87.5°	24.4	25.2	25.6	26.4	19.7	14.1	14.1	18.8	18.8	14.6	10.7
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)