

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: P960398

Luminaire Tested: **NAV-SB1C-750-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960398
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1C-750-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 5000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8217.4 lumens
Efficiency: N/A
Efficacy: 151.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

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



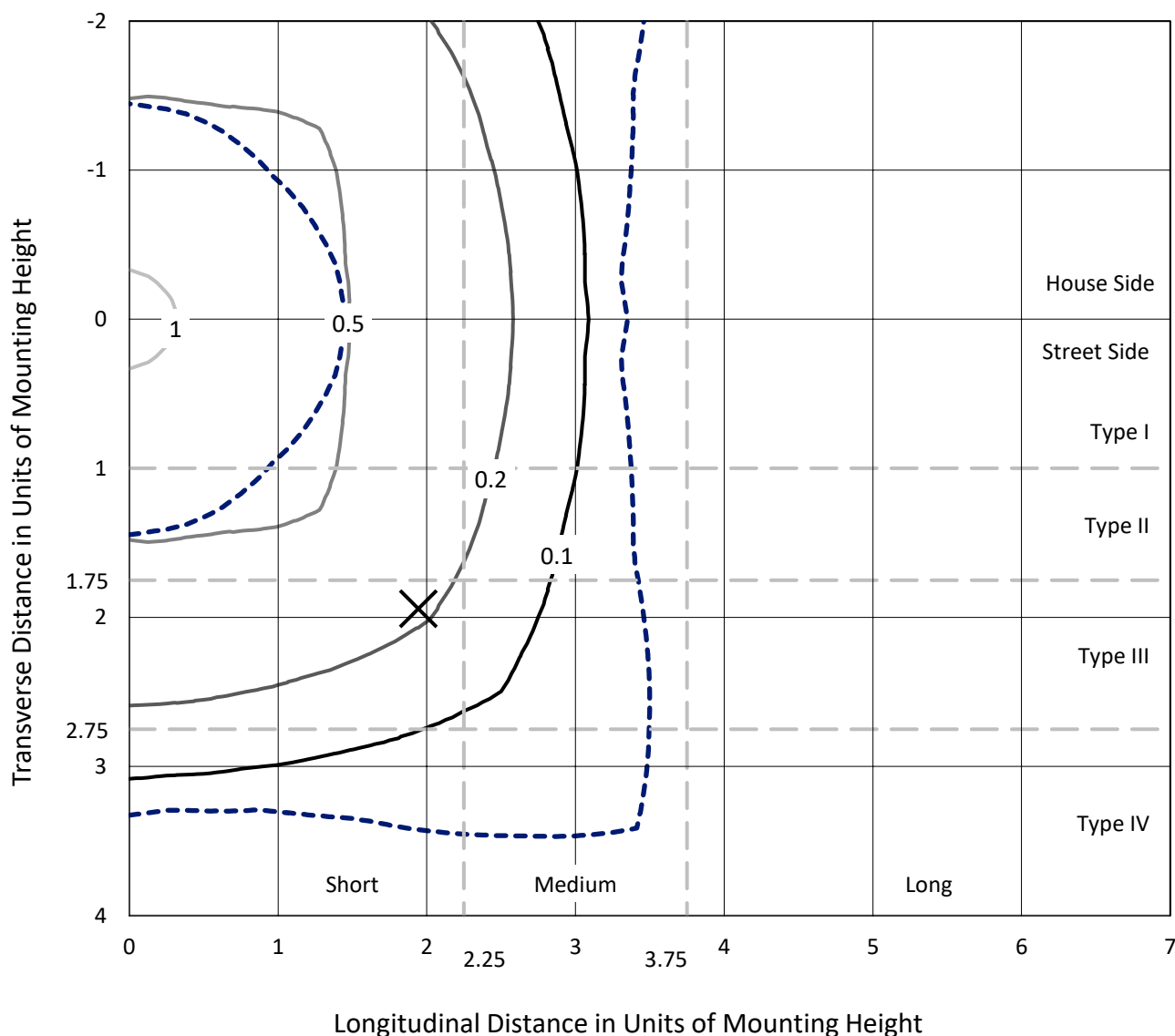
REPORT NUMBER: P960398

CATALOG NUMBER: NAV-SB1C-750-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

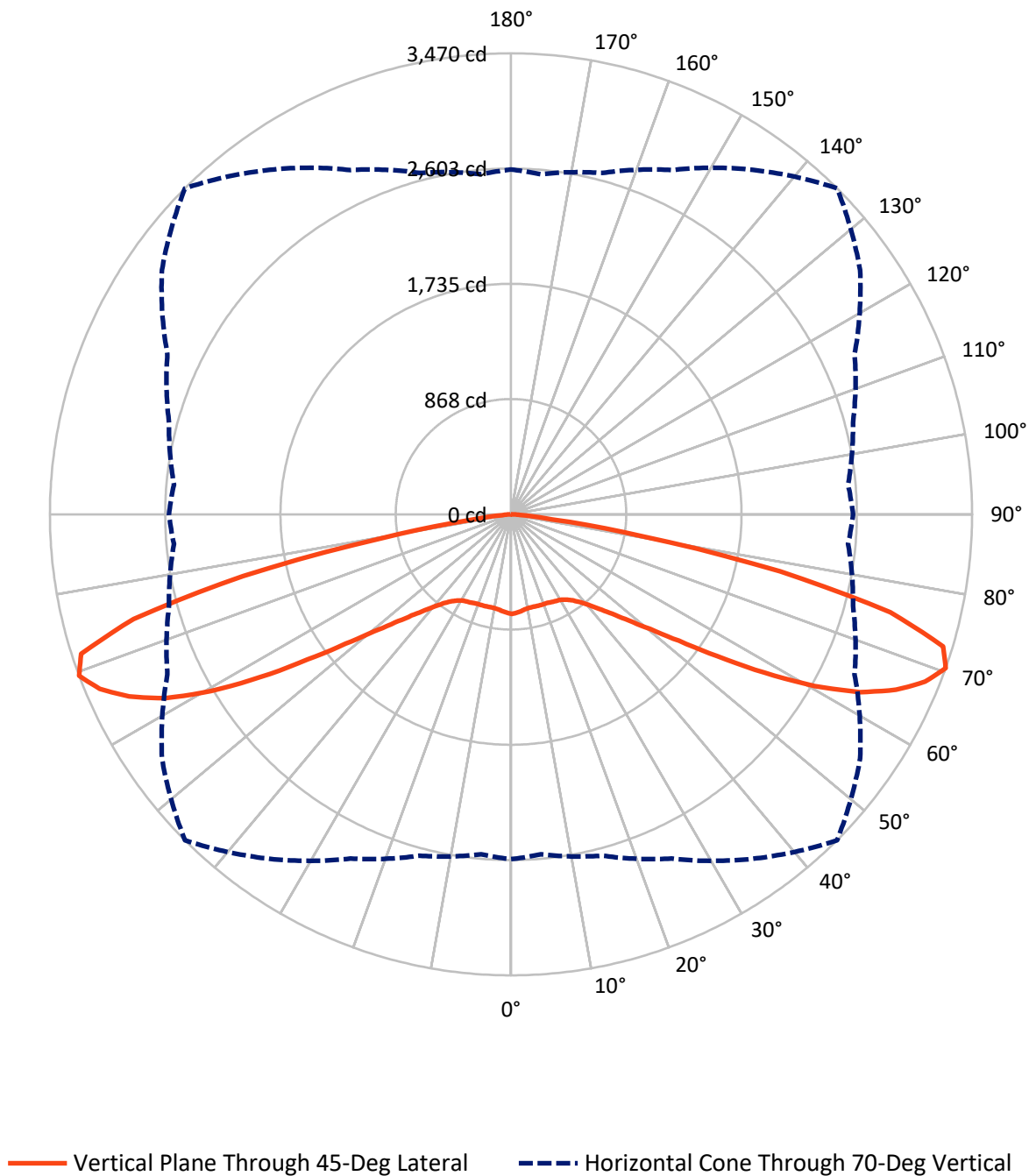


Based on 25 foot mounting height. Maximum calculated value = 1.2 fc

Type V - Short - N/A

REPORT NUMBER: P960398
CATALOG NUMBER: NAV-SB1C-750-U-5WQ

Luminous Intensity Polar Plot



REPORT NUMBER: P960398

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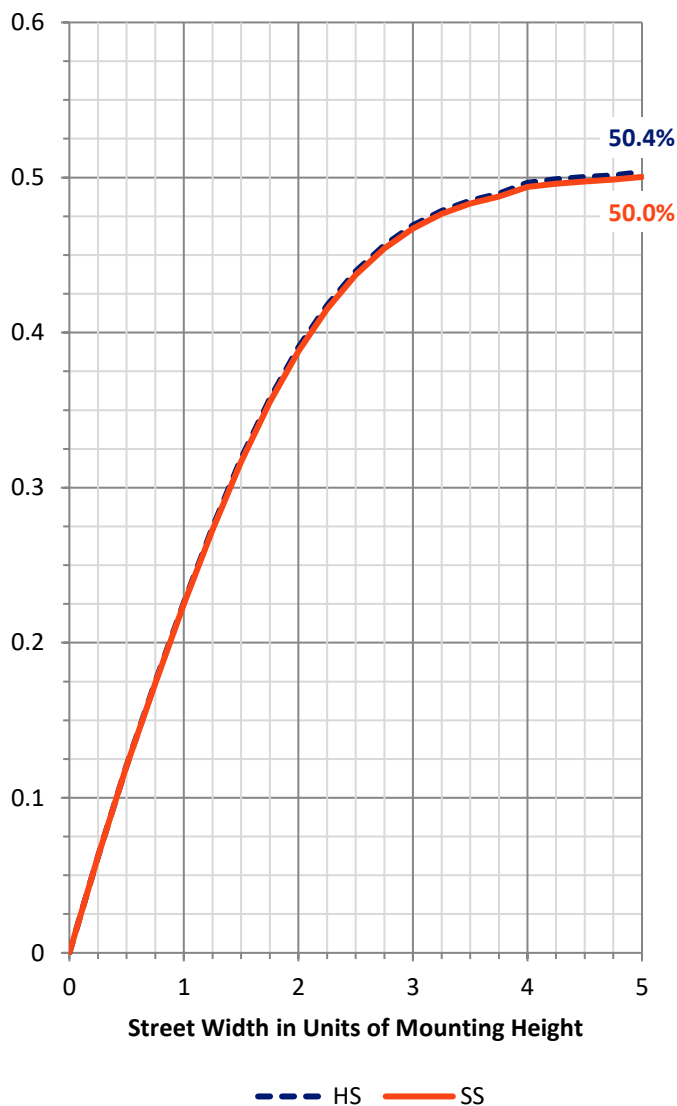
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4108.7	0.0	4108.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4108.7	0.0	4108.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	8217.4	0.0	8217.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.7	0.8
10°-20°	204.7	2.5
20°-30°	340.7	4.1
30°-40°	515.3	6.3
40°-50°	856.3	10.4
50°-60°	1615.8	19.7
60°-70°	2728.3	33.2
70°-80°	1792.7	21.8
80°-90°	93.9	1.1
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°	8217.4	100.0
0°-180°	8217.4	100.0

Coefficient of Utilization



REPORT NUMBER: P960398

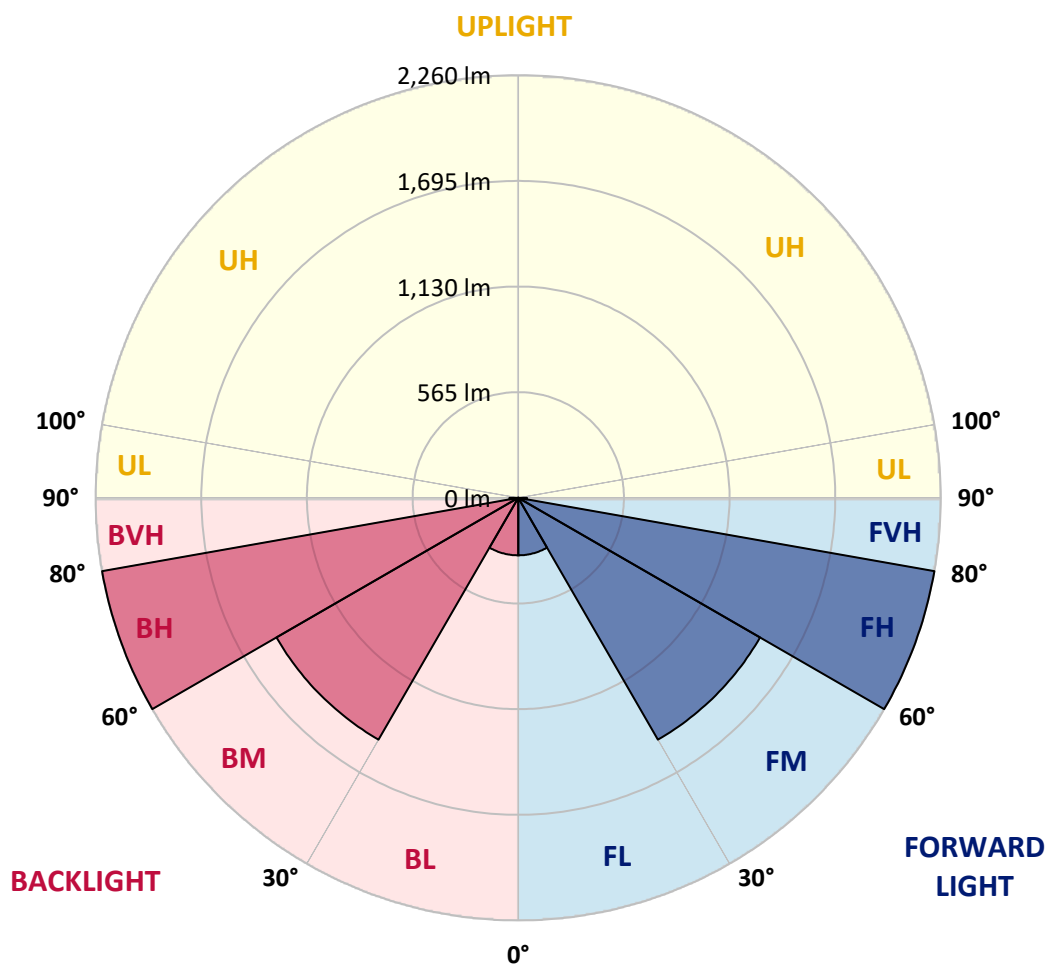
CATALOG NUMBER: NAV-SB1C-750-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	307.6	3.7			
FM	(30°-60°)	1493.6	18.2			
FH	(60°-80°)	2260.5	27.5			G2/5000
FVH	(80°-90°)	47.0	0.6			G1/100
BL	(0°-30°)	307.6	3.7	B1/500		
BM	(30°-60°)	1493.6	18.2	B2/2500		
BH	(60°-80°)	2260.5	27.5	B3/2500		G2/5000
BVH	(80°-90°)	47.0	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	749.6	749.6	749.6	749.6	749.6	749.6	749.6	749.6	749.6	749.6	749.6
2.5°	744.9	747.0	746.2	744.5	744.5	743.2	744.5	745.3	746.6	747.4	747.0
5°	735.0	736.8	736.4	735.0	735.5	734.2	735.0	736.4	737.2	737.6	737.6
7.5°	726.5	728.3	727.3	725.3	725.3	724.0	724.4	725.7	726.9	727.3	727.3
10°	724.4	726.1	723.5	720.2	718.8	717.1	717.6	718.8	721.4	722.7	722.7
12.5°	725.3	726.5	724.0	718.8	717.6	715.9	715.9	717.1	720.6	722.2	722.7
15°	727.9	729.1	725.3	719.7	718.4	717.1	716.7	718.4	722.2	725.3	725.7
17.5°	732.5	733.8	727.9	720.2	718.4	718.8	718.4	719.7	725.7	731.2	731.2
20°	736.8	737.6	729.5	720.2	718.4	718.8	718.4	721.0	728.7	736.4	736.8
22.5°	738.1	738.9	731.2	723.1	721.8	722.2	721.8	724.4	731.6	739.3	739.3
25°	738.5	739.7	733.8	727.3	729.5	730.4	729.5	729.9	735.5	742.3	741.9
27.5°	744.9	746.6	741.1	735.5	736.8	736.4	737.6	738.9	743.2	750.0	748.4
30°	758.1	759.4	754.7	749.2	748.4	745.3	749.2	753.5	758.1	764.1	762.8
32.5°	779.9	782.5	776.5	770.5	766.7	765.0	767.9	775.2	781.7	788.0	785.5
35°	816.2	817.9	812.4	801.2	794.5	794.5	797.0	806.4	816.6	824.8	821.7
37.5°	867.5	869.6	859.8	846.5	836.3	836.3	839.7	849.5	864.9	876.5	872.2
40°	929.9	932.9	920.4	906.8	897.0	895.2	899.5	910.6	925.2	939.6	935.0
42.5°	1005.0	1008.4	992.2	980.2	972.5	972.5	974.7	984.9	998.1	1016.1	1014.9
45°	1101.2	1107.1	1084.9	1073.0	1065.7	1067.3	1068.7	1077.6	1089.6	1110.1	1109.3
47.5°	1215.5	1221.6	1198.0	1185.7	1184.4	1192.5	1187.4	1193.8	1200.2	1223.7	1216.9
50°	1345.4	1355.7	1339.5	1338.5	1341.1	1356.1	1344.2	1347.6	1340.3	1355.3	1346.2
52.5°	1504.3	1519.3	1516.3	1521.4	1550.0	1580.8	1553.4	1541.5	1514.1	1518.8	1503.1
55°	1697.0	1719.5	1723.8	1754.6	1819.6	1882.3	1824.2	1775.9	1717.9	1707.2	1690.5
57.5°	1916.0	1934.0	1954.5	2017.3	2138.6	2250.1	2138.6	2031.9	1940.4	1918.6	1903.2
60°	2151.8	2174.0	2193.7	2286.4	2466.7	2623.4	2463.2	2293.6	2172.8	2143.3	2117.6
62.5°	2405.1	2433.8	2447.4	2550.3	2760.4	2947.6	2763.5	2558.0	2423.9	2392.2	2366.6
65°	2648.2	2671.7	2687.0	2796.8	2997.5	3185.0	3011.1	2808.7	2670.7	2629.3	2608.8
67.5°	2761.4	2774.2	2811.7	2936.0	3147.9	3361.9	3183.8	2949.2	2795.1	2722.5	2723.3
70°	2595.6	2569.6	2660.1	2859.1	3165.8	3470.3	3206.8	2853.2	2664.4	2546.5	2574.7
72.5°	2005.7	1960.9	2118.1	2458.5	2960.8	3401.2	2981.3	2477.7	2215.8	1976.7	2036.1
75°	1091.3	1040.5	1257.5	1688.0	2361.1	2948.0	2415.3	1736.2	1400.0	1083.2	1153.6
77.5°	307.9	288.7	463.8	816.6	1420.1	2069.8	1474.9	834.6	550.1	326.4	362.6
80°	94.4	91.4	123.8	246.0	603.1	991.4	579.6	249.0	157.6	99.5	105.1
82.5°	56.0	51.2	61.5	89.7	153.8	311.4	149.4	93.6	75.1	50.4	54.6
85°	32.1	29.9	36.3	43.6	51.7	66.2	43.2	44.4	40.2	27.0	28.2
87.5°	13.2	12.0	14.1	13.6	12.0	15.4	11.6	13.6	16.2	10.7	9.8
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)