

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: P961452

Luminaire Tested: **NAV-SB2A-750-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961452
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-SB2A-750-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9840 lumens
Efficiency: N/A
Efficacy: 171.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

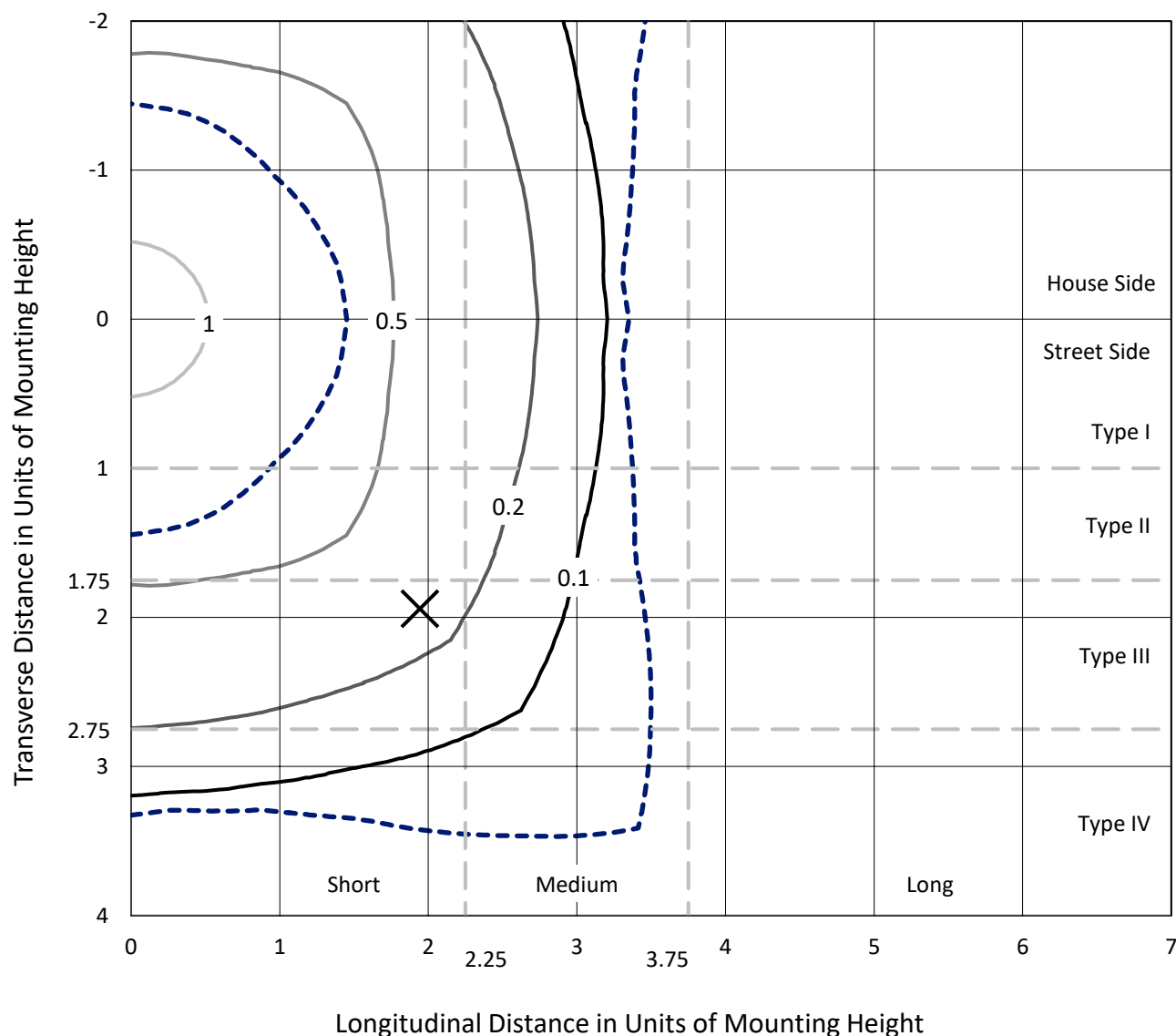
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P961452
 CATALOG NUMBER: NAV-SB2A-750-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

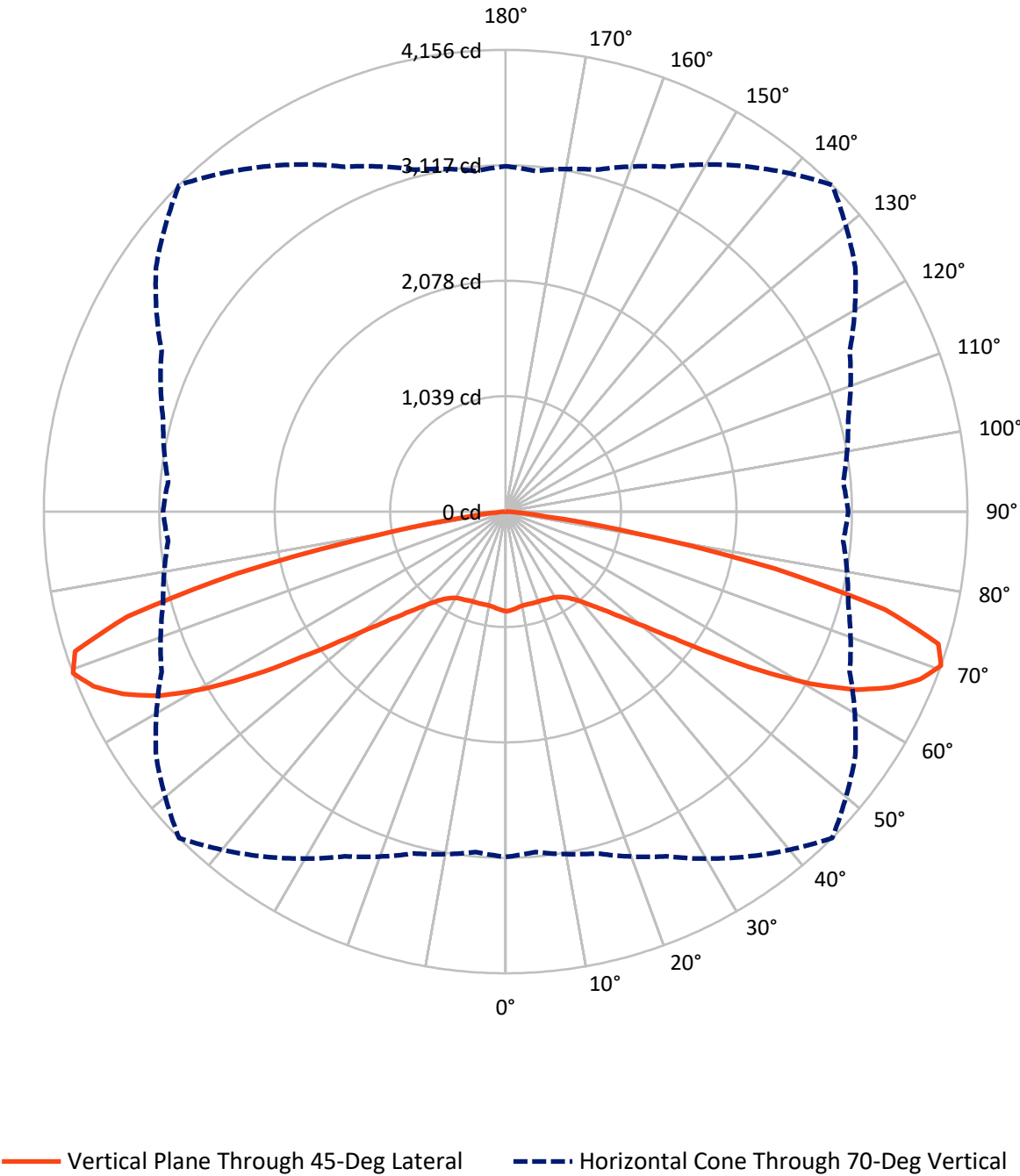
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type V - Short - N/A

REPORT NUMBER: P961452
CATALOG NUMBER: NAV-SB2A-750-U-5WQ

Luminous Intensity Polar Plot



REPORT NUMBER: P961452

CATALOG NUMBER: NAV-SB2A-750-U-5WQ

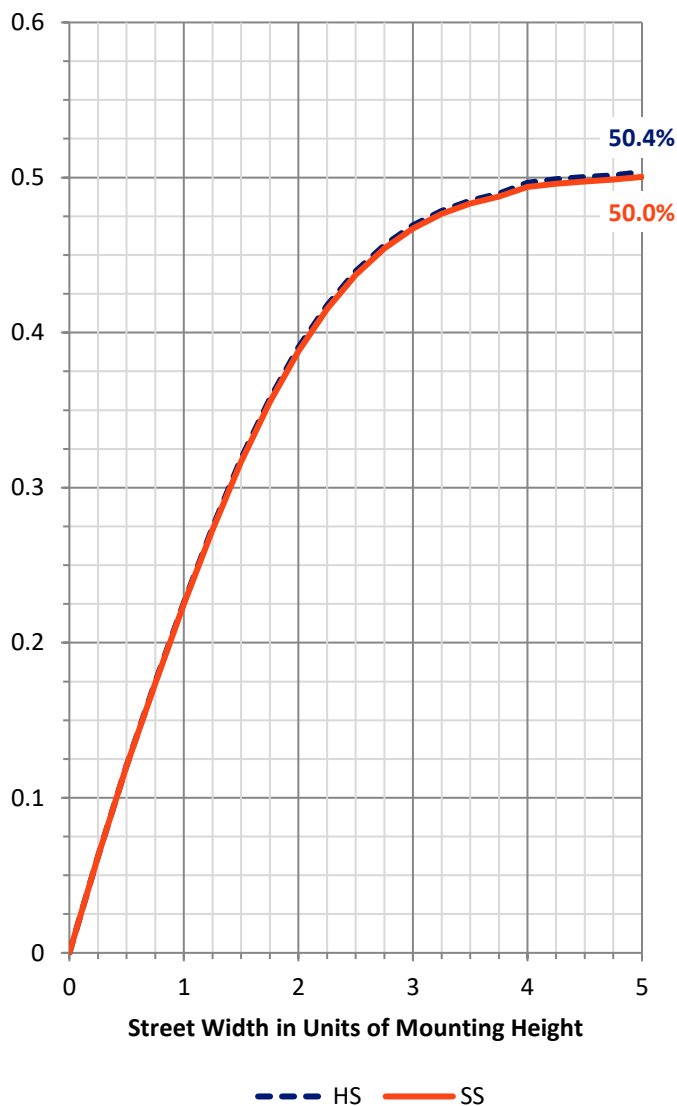
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4920.0	0.0	4920.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4920.0	0.0	4920.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	9840.0	0.0	9840.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.5	0.8
10°-20°	245.2	2.5
20°-30°	408.0	4.1
30°-40°	617.0	6.3
40°-50°	1025.4	10.4
50°-60°	1934.8	19.7
60°-70°	3267.0	33.2
70°-80°	2146.7	21.8
80°-90°	112.5	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°	9840.0	100.0
0°-180°	9840.0	100.0

Coefficient of Utilization



REPORT NUMBER: P961452

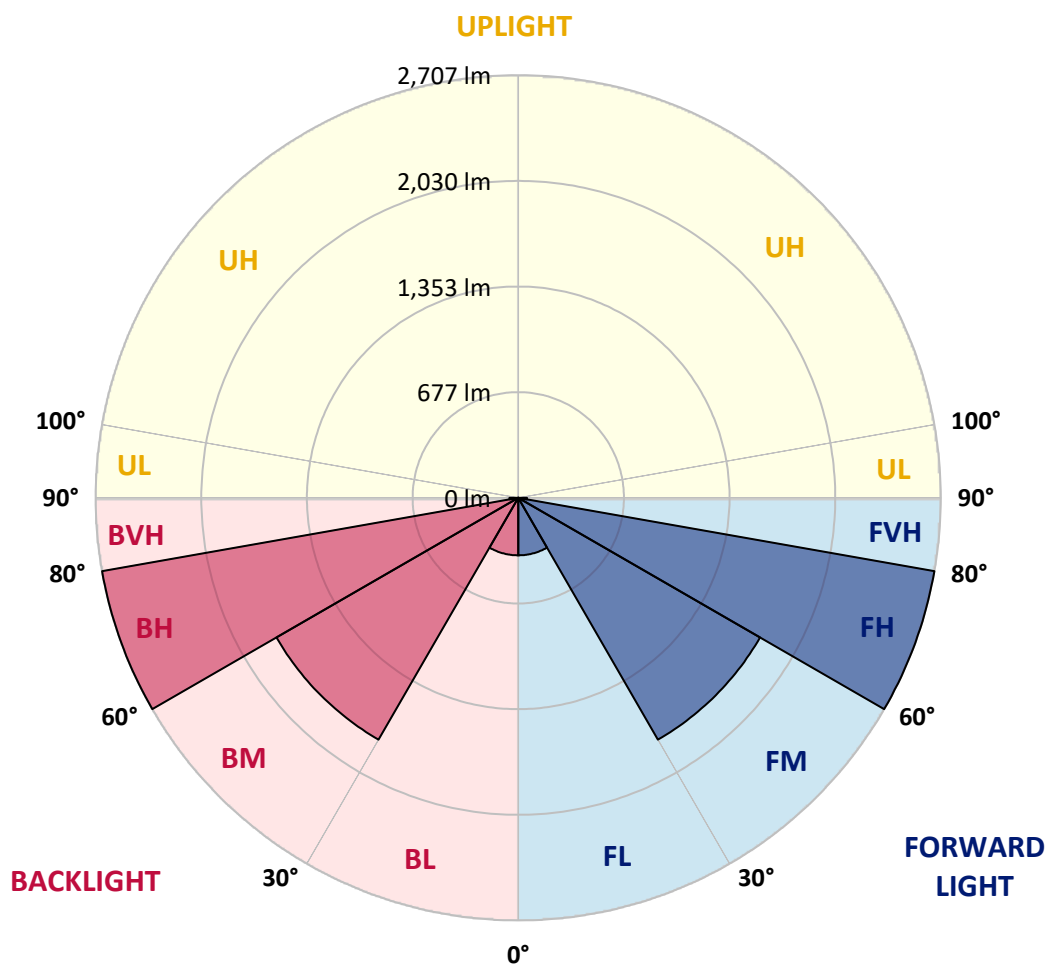
CATALOG NUMBER: NAV-SB2A-750-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	368.3	3.7			
FM	(30°-60°)	1788.6	18.2			
FH	(60°-80°)	2706.9	27.5			G2/5000
FVH	(80°-90°)	56.2	0.6			G1/100
BL	(0°-30°)	368.3	3.7	B1/500		
BM	(30°-60°)	1788.6	18.2	B2/2500		
BH	(60°-80°)	2706.9	27.5	B4/5000		G2/5000
BVH	(80°-90°)	56.2	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short



REPORT NUMBER: P961452

CATALOG NUMBER: NAV-SB2A-750-U-5WQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	897.6	897.6	897.6	897.6	897.6	897.6	897.6	897.6	897.6	897.6	897.6
2.5°	892.0	894.5	893.5	891.4	891.4	889.9	891.4	892.5	894.0	895.0	894.5
5°	880.2	882.2	881.7	880.2	880.7	879.1	880.2	881.7	882.7	883.2	883.2
7.5°	870.0	872.1	871.0	868.5	868.5	866.9	867.5	869.0	870.5	871.0	871.0
10°	867.5	869.5	866.4	862.3	860.8	858.7	859.3	860.8	863.9	865.4	865.4
12.5°	868.5	870.0	866.9	860.8	859.3	857.2	857.2	858.7	862.8	864.9	865.4
15°	871.6	873.1	868.5	861.8	860.3	858.7	858.2	860.3	864.9	868.5	869.0
17.5°	877.2	878.7	871.6	862.3	860.3	860.8	860.3	861.8	869.0	875.7	875.7
20°	882.2	883.2	873.6	862.3	860.3	860.8	860.3	863.4	872.6	881.7	882.2
22.5°	883.8	884.8	875.7	865.9	864.4	864.9	864.4	867.5	876.2	885.3	885.3
25°	884.3	885.8	878.7	871.0	873.6	874.6	873.6	874.1	880.7	888.9	888.4
27.5°	892.0	894.0	887.3	880.7	882.2	881.7	883.2	884.8	889.9	898.1	896.1
30°	907.8	909.4	903.7	897.1	896.1	892.5	897.1	902.2	907.8	915.0	913.5
32.5°	933.9	937.0	929.8	922.7	918.1	916.0	919.6	928.3	935.9	943.6	940.5
35°	977.4	979.5	972.8	959.5	951.3	951.3	954.4	965.7	978.0	987.6	984.0
37.5°	1038.7	1041.3	1029.6	1013.7	1001.4	1001.4	1005.5	1017.3	1035.7	1049.5	1044.4
40°	1113.5	1117.0	1102.2	1085.8	1074.1	1072.0	1077.2	1090.4	1107.8	1125.2	1119.6
42.5°	1203.5	1207.6	1188.1	1173.8	1164.6	1164.6	1167.2	1179.5	1195.3	1216.8	1215.2
45°	1318.6	1325.7	1299.1	1284.7	1276.1	1278.2	1279.7	1290.4	1304.7	1329.3	1328.3
47.5°	1455.6	1462.8	1434.6	1419.8	1418.3	1428.0	1421.9	1429.6	1437.2	1465.3	1457.1
50°	1611.1	1623.4	1603.9	1602.9	1606.0	1623.9	1609.6	1613.7	1604.9	1622.9	1612.1
52.5°	1801.3	1819.3	1815.7	1821.8	1856.1	1892.9	1860.2	1845.8	1813.1	1818.8	1799.8
55°	2032.1	2059.1	2064.2	2101.0	2178.8	2254.0	2184.5	2126.7	2057.1	2044.3	2024.4
57.5°	2294.4	2315.9	2340.4	2415.6	2560.9	2694.3	2560.9	2433.0	2323.6	2297.4	2279.1
60°	2576.7	2603.3	2626.9	2737.9	2953.6	3141.3	2949.5	2746.5	2601.8	2566.5	2535.8
62.5°	2880.0	2914.3	2930.7	3053.9	3305.5	3529.6	3309.1	3063.1	2902.5	2864.7	2834.0
65°	3171.0	3199.1	3217.6	3349.0	3589.4	3813.9	3605.7	3363.3	3198.1	3148.5	3124.0
67.5°	3306.5	3321.9	3366.9	3515.7	3769.4	4025.7	3812.4	3531.6	3346.9	3260.0	3261.0
70°	3108.1	3076.9	3185.4	3423.7	3791.0	4155.6	3840.1	3416.5	3190.4	3049.3	3083.1
72.5°	2401.8	2348.1	2536.4	2943.9	3545.4	4072.7	3570.0	2967.0	2653.4	2367.0	2438.1
75°	1306.8	1245.9	1505.7	2021.3	2827.4	3530.1	2892.2	2079.1	1676.6	1297.0	1381.5
77.5°	368.8	345.7	555.4	978.0	1700.6	2478.6	1766.1	999.4	658.8	390.7	434.2
80°	113.1	109.5	148.3	294.6	722.2	1187.1	694.0	298.2	188.7	119.2	125.8
82.5°	67.0	61.4	73.7	107.4	184.1	372.9	179.0	112.0	90.0	60.4	65.5
85°	38.3	35.8	43.5	52.2	61.9	79.2	51.7	53.2	48.1	32.2	33.7
87.5°	15.9	14.3	16.9	16.4	14.3	18.4	13.8	16.4	19.5	12.8	11.8
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)