

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: P959936

Luminaire Tested: **NAV-SB1B-827-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959936
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-827-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 450mA LIGHTSQUARE WITH 26 LEDS AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5170.1 lumens
Efficiency: N/A
Efficacy: 129.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

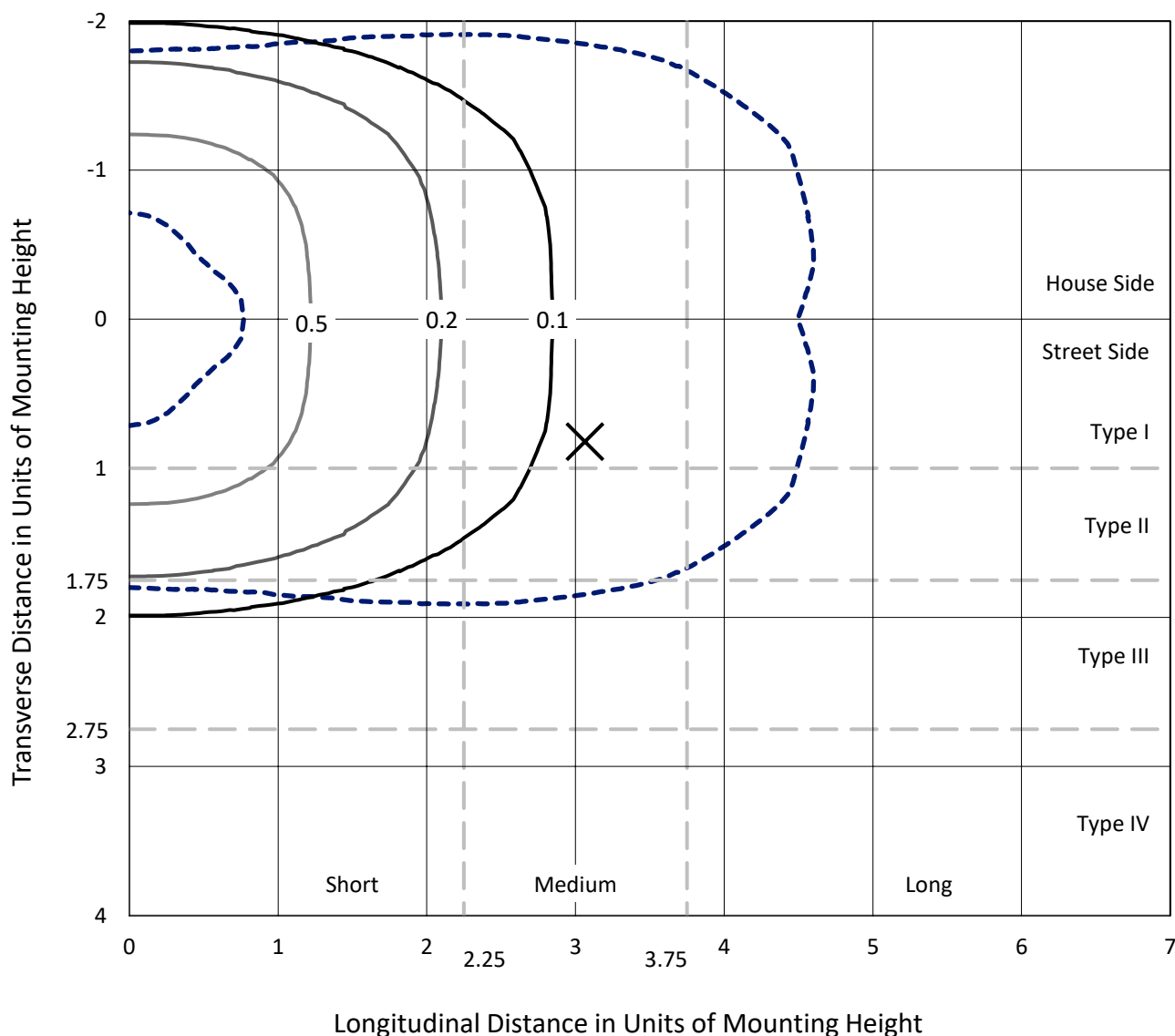
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P959936
 CATALOG NUMBER: NAV-SB1B-827-U-RW

Iso-Footcandle Lines of Horizontal Illumination

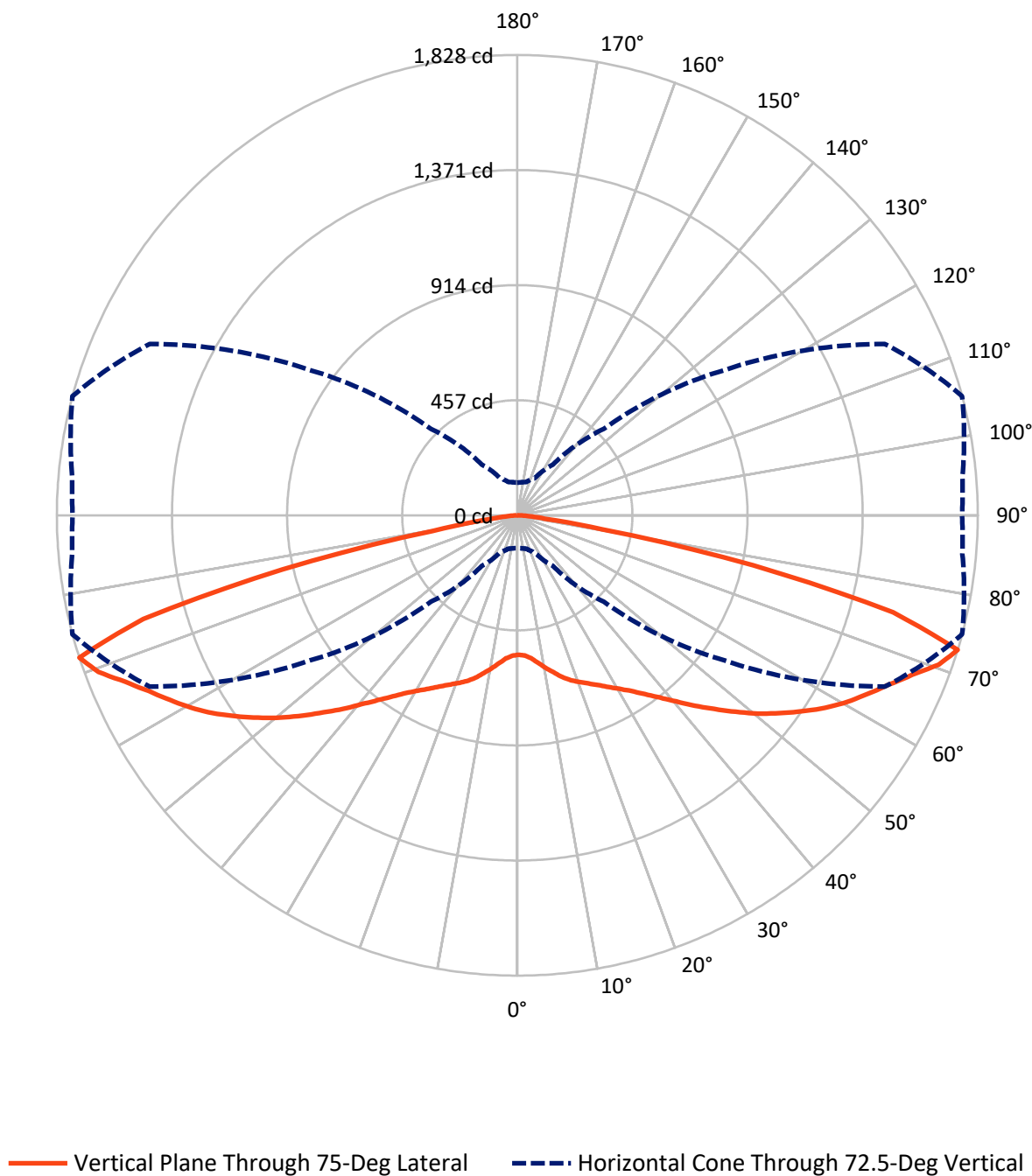
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc
 Type III - Medium - N/A

REPORT NUMBER: P959936
CATALOG NUMBER: NAV-SB1B-827-U-RW

Luminous Intensity Polar Plot



REPORT NUMBER: P959936

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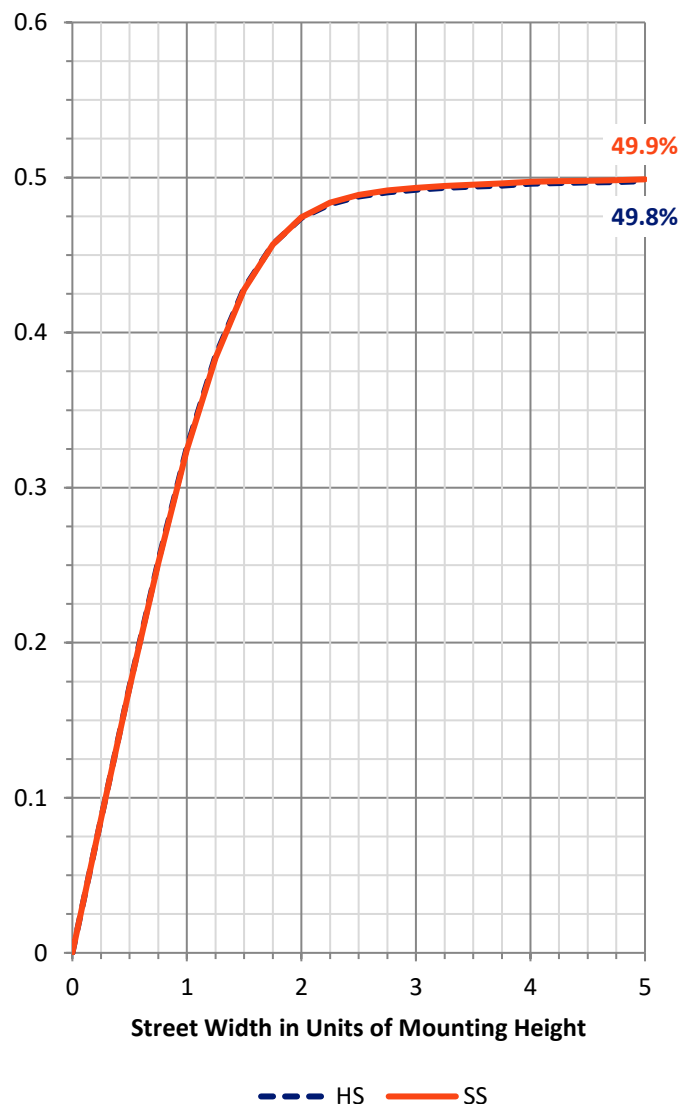
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2585.1	0.0	2585.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2585.1	0.0	2585.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	5170.1	0.0	5170.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.2	1.0
10°-20°	178.9	3.5
20°-30°	345.7	6.7
30°-40°	583.8	11.3
40°-50°	925.9	17.9
50°-60°	1239.6	24.0
60°-70°	1179.7	22.8
70°-80°	615.6	11.9
80°-90°	46.6	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°	5170.1	100.0
0°-180°	5170.1	100.0

Coefficient of Utilization



REPORT NUMBER: P959936

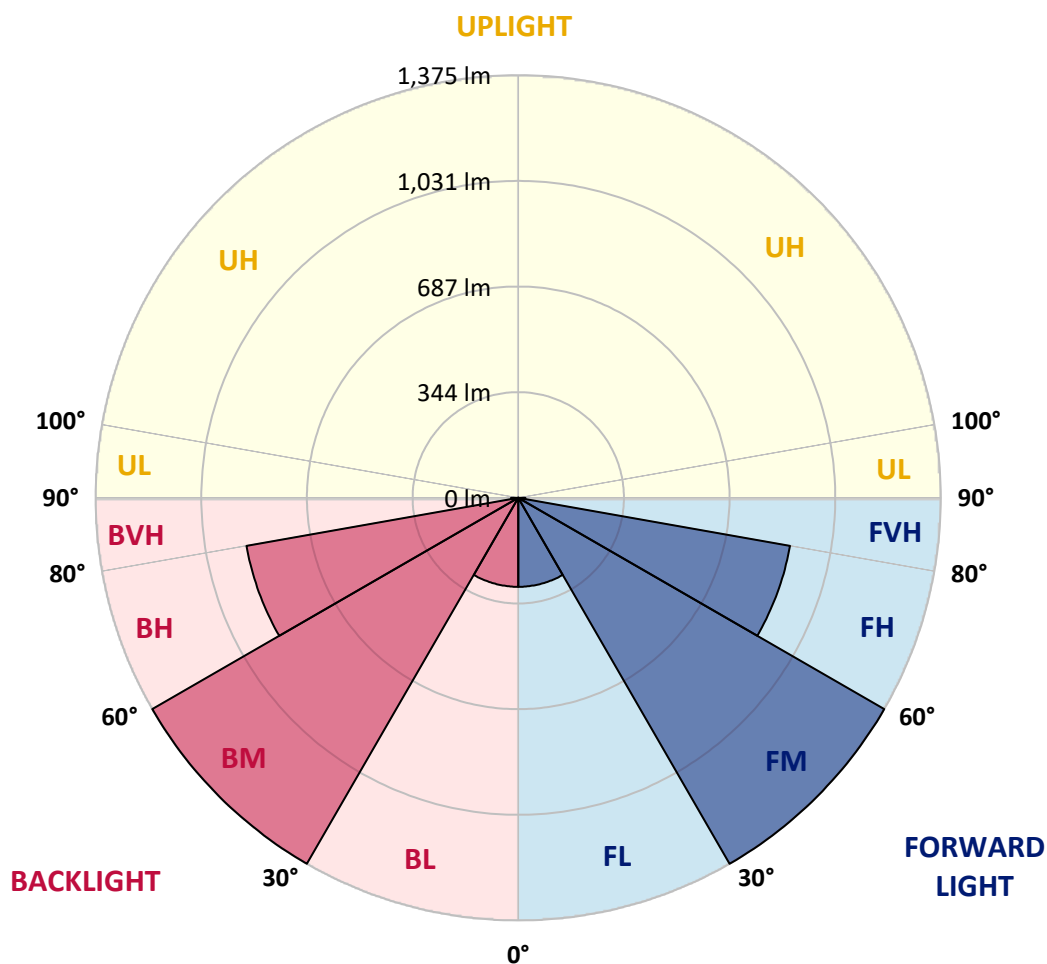
CATALOG NUMBER: NAV-SB1B-827-U-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	289.5	5.6			
FM	(30°-60°)	1374.6	26.6			
FH	(60°-80°)	897.7	17.4			G1/1800
FVH	(80°-90°)	23.3	0.5			G1/100
BL	(0°-30°)	289.5	5.6	B1/500		
BM	(30°-60°)	1374.6	26.6	B2/2500		
BH	(60°-80°)	897.7	17.4	B2/1000		G2/1000
BVH	(80°-90°)	23.3	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Medium



REPORT NUMBER: P959936

CATALOG NUMBER: NAV-SB1B-827-U-RW

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	553.8	553.8	553.8	553.8	553.8	553.8	553.8	553.8	553.8	553.8	553.8
2.5°	553.8	553.3	553.8	554.3	554.1	554.1	555.3	556.2	557.8	557.5	557.3
5°	550.1	549.8	552.0	554.3	556.2	559.3	563.3	566.2	569.9	570.7	570.7
7.5°	548.3	547.5	551.1	555.3	561.2	569.1	576.8	584.7	591.0	593.2	593.7
10°	549.6	549.8	554.8	562.8	572.1	583.1	593.9	607.4	616.3	618.5	620.6
12.5°	555.7	555.1	563.5	576.3	589.0	602.9	615.6	630.4	640.1	645.1	647.3
15°	566.7	565.7	577.6	596.3	614.8	631.2	641.4	655.5	666.8	673.1	675.5
17.5°	579.9	580.5	596.0	620.3	644.6	663.1	672.8	680.0	688.7	694.2	696.9
20°	603.2	604.2	621.7	650.5	678.1	699.3	707.1	704.6	706.9	711.1	714.3
22.5°	634.4	634.9	654.4	685.5	714.5	737.8	743.1	732.3	725.7	728.6	730.6
25°	670.5	673.9	693.4	725.4	755.2	777.4	779.8	763.4	747.0	747.8	749.2
27.5°	714.5	717.7	737.5	769.2	799.6	818.9	818.6	796.6	772.6	766.6	768.4
30°	762.4	765.8	786.1	818.9	847.1	864.0	860.3	834.1	799.8	788.4	789.8
32.5°	819.1	821.2	841.8	874.5	900.7	914.1	906.5	874.2	831.5	818.6	821.7
35°	887.8	890.9	906.2	937.1	960.0	971.2	958.2	920.2	872.2	857.6	859.8
37.5°	966.2	964.0	981.4	1008.9	1027.9	1034.7	1017.1	971.9	918.6	901.5	904.7
40°	1048.0	1046.9	1065.9	1092.3	1102.6	1106.8	1080.7	1031.4	972.2	953.8	959.8
42.5°	1122.2	1121.4	1147.0	1176.3	1188.7	1183.9	1150.9	1094.4	1034.2	1013.1	1018.4
45°	1181.5	1180.5	1211.9	1253.1	1277.4	1269.5	1225.1	1164.1	1097.1	1075.1	1080.1
47.5°	1227.2	1227.7	1261.5	1312.5	1354.9	1357.8	1300.8	1235.1	1166.2	1141.4	1148.8
50°	1260.2	1261.8	1298.0	1354.4	1412.6	1438.1	1378.2	1308.0	1237.8	1209.8	1218.2
52.5°	1268.3	1271.3	1314.9	1381.1	1449.5	1498.3	1456.8	1377.9	1305.6	1278.9	1285.8
55°	1224.8	1230.6	1285.8	1378.9	1472.2	1537.9	1526.0	1448.9	1374.0	1346.5	1354.1
57.5°	1124.7	1132.9	1197.4	1319.1	1467.2	1565.1	1579.6	1517.0	1442.4	1415.9	1422.0
60°	984.6	994.4	1056.2	1188.9	1396.4	1575.1	1617.3	1583.3	1505.1	1479.6	1485.1
62.5°	773.2	785.9	859.8	1015.5	1247.0	1528.4	1649.5	1643.2	1561.7	1529.7	1533.4
65°	496.0	509.4	587.3	771.3	1047.7	1385.3	1659.6	1701.6	1621.3	1576.7	1582.2
67.5°	299.1	305.1	343.7	467.5	765.8	1169.6	1574.6	1766.2	1691.0	1635.6	1639.8
70°	191.4	194.9	217.8	274.5	433.0	853.4	1364.0	1778.4	1775.5	1696.0	1695.5
72.5°	129.9	130.9	137.0	162.6	245.0	484.9	1006.0	1610.0	1828.3	1773.9	1765.5
75°	95.0	100.9	110.6	115.1	139.1	242.3	576.6	1131.1	1540.8	1564.6	1507.1
77.5°	70.7	71.0	84.5	89.8	99.2	129.0	244.0	631.4	956.6	1004.4	896.0
80°	60.0	56.8	56.5	72.4	74.7	80.5	109.1	218.0	342.7	207.8	157.0
82.5°	49.9	46.4	41.9	56.5	50.9	49.4	47.3	88.7	109.1	53.6	45.7
85°	34.8	33.2	31.7	37.0	29.0	24.8	22.7	41.4	45.9	22.7	20.1
87.5°	15.1	15.6	15.9	16.4	12.1	8.7	8.7	11.6	11.6	9.0	6.6
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)