

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: P965730

Luminaire Tested: **NAV-SB4A-827-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P965730
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-SB4A-827-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

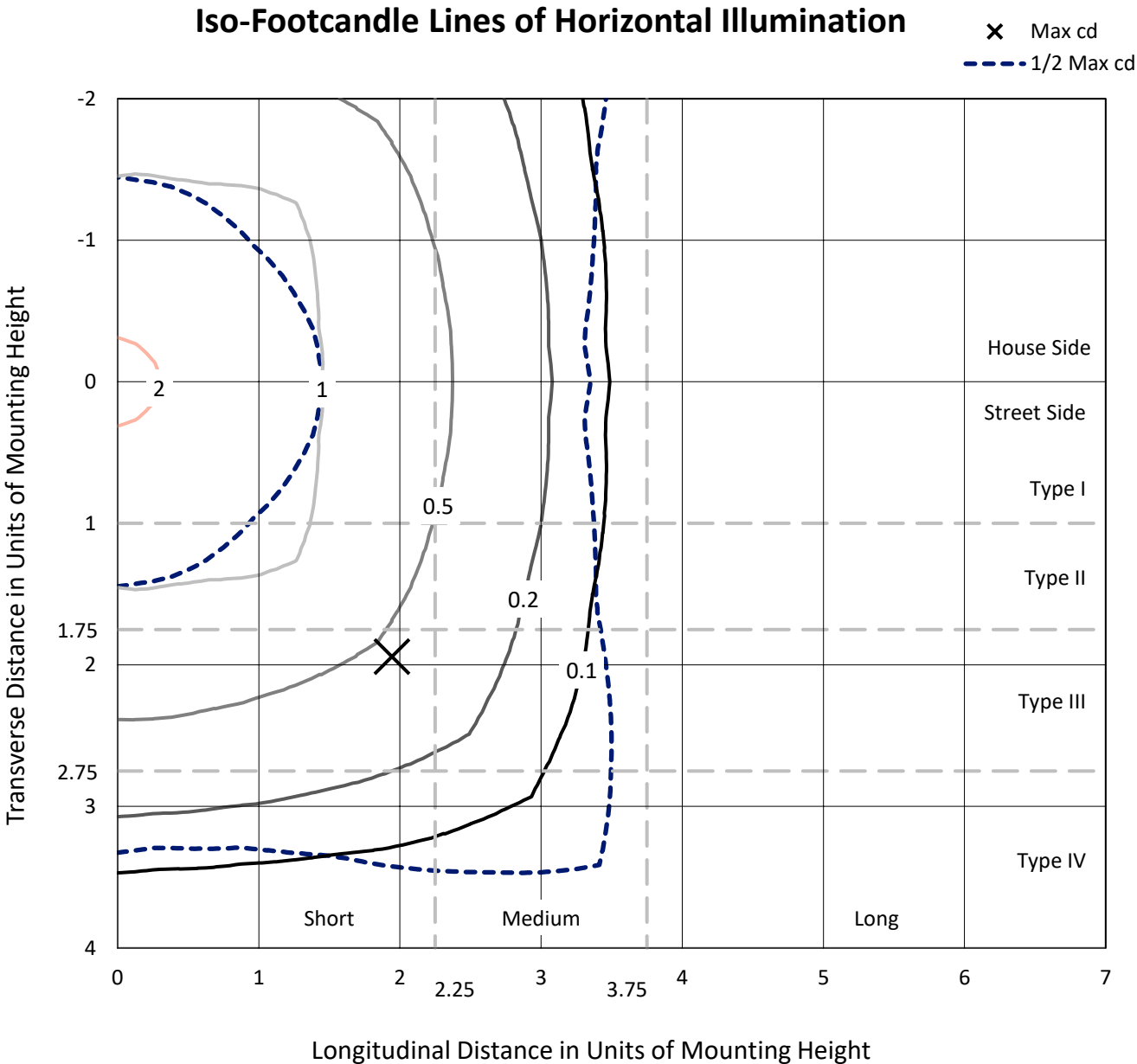
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16208.3 lumens
Efficiency: N/A
Efficacy: 142.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 114
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



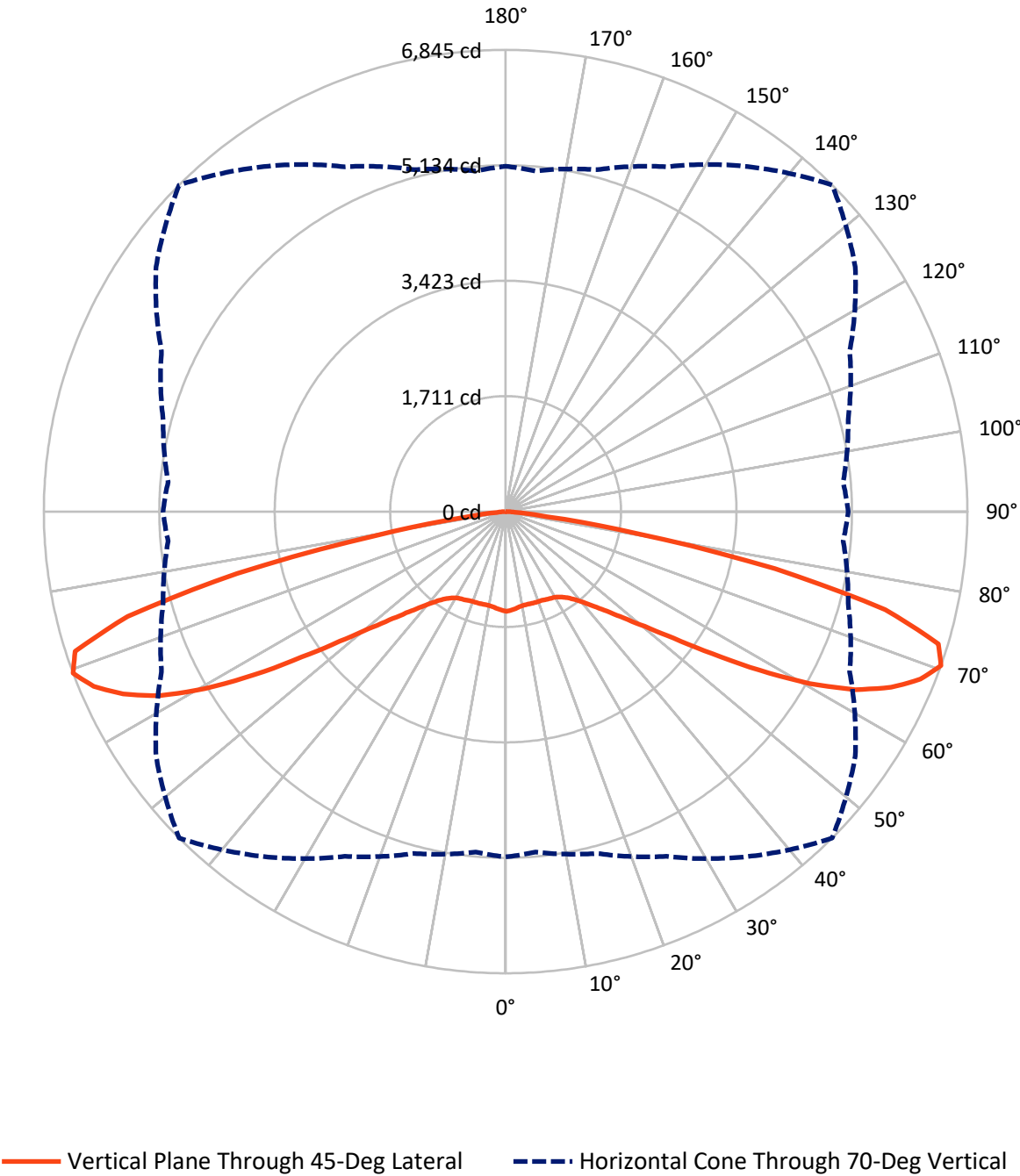
REPORT NUMBER: P965730
CATALOG NUMBER: NAV-SB4A-827-U-5WQ



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
Type V - Short - N/A

REPORT NUMBER: P965730
CATALOG NUMBER: NAV-SB4A-827-U-5WQ

Luminous Intensity Polar Plot



REPORT NUMBER: P965730

CATALOG NUMBER: NAV-SB4A-827-U-5WQ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8104.2	0.0	8104.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8104.2	0.0	8104.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	16208.3	0.0	16208.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.5	0.8
10°-20°	403.8	2.5
20°-30°	672.1	4.1
30°-40°	1016.3	6.3
40°-50°	1688.9	10.4
50°-60°	3186.9	19.7
60°-70°	5381.3	33.2
70°-80°	3536.1	21.8
80°-90°	185.3	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°	16208.3	100.0
0°-180°	16208.3	100.0

Coefficient of Utilization



REPORT NUMBER: P965730

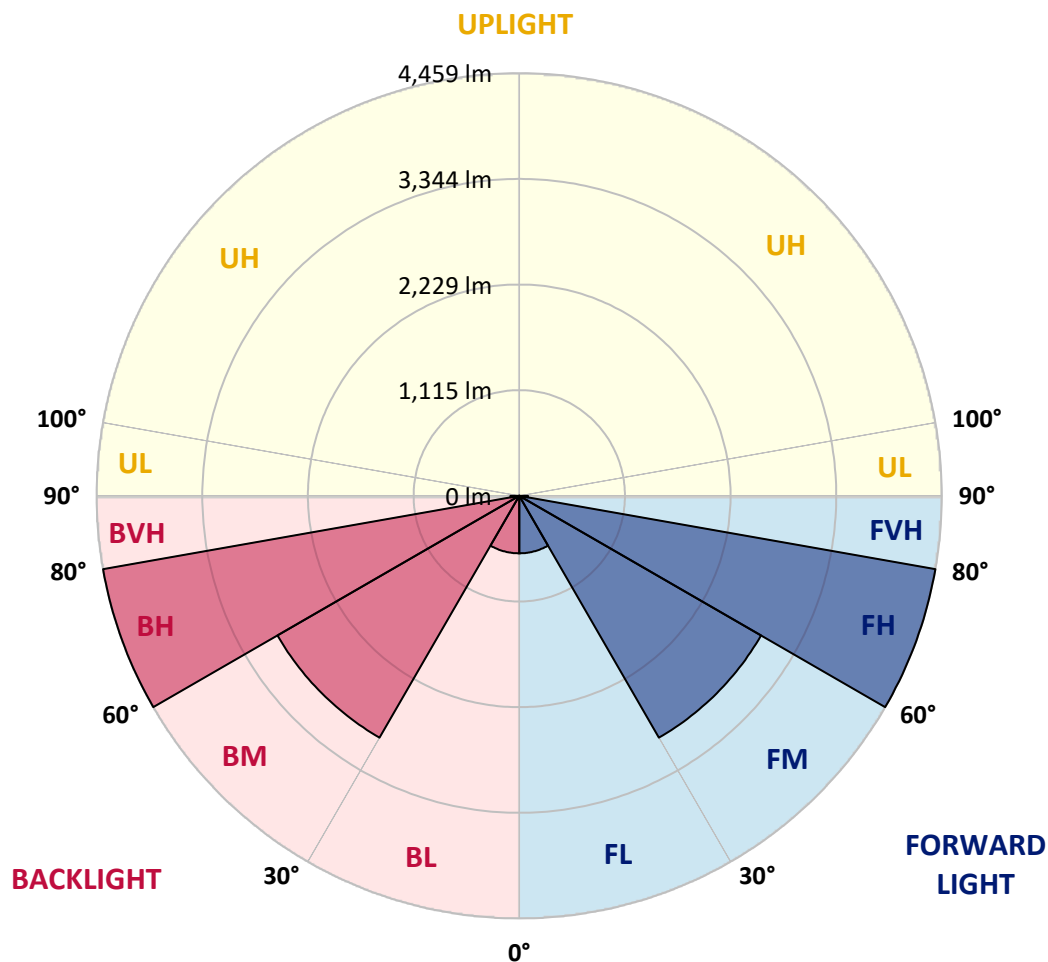
CATALOG NUMBER: NAV-SB4A-827-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	606.7	3.7			
FM	(30°-60°)	2946.1	18.2			
FH	(60°-80°)	4458.7	27.5			G2/5000
FVH	(80°-90°)	92.6	0.6			G1/100
BL	(0°-30°)	606.7	3.7	B2/1000		
BM	(30°-60°)	2946.1	18.2	B3/5000		
BH	(60°-80°)	4458.7	27.5	B4/5000		G2/5000
BVH	(80°-90°)	92.6	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: P965730

CATALOG NUMBER: NAV-SB4A-827-U-5WQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1478.6	1478.6	1478.6	1478.6	1478.6	1478.6	1478.6	1478.6	1478.6	1478.6	1478.6
2.5°	1469.2	1473.4	1471.8	1468.4	1468.4	1465.9	1468.4	1470.1	1472.6	1474.4	1473.4
5°	1449.9	1453.2	1452.4	1449.9	1450.7	1448.2	1449.9	1452.4	1454.1	1455.0	1455.0
7.5°	1433.1	1436.4	1434.7	1430.5	1430.5	1427.9	1428.8	1431.3	1433.9	1434.7	1434.7
10°	1428.8	1432.2	1427.1	1420.4	1417.9	1414.5	1415.3	1417.9	1422.9	1425.5	1425.5
12.5°	1430.5	1433.1	1427.9	1417.9	1415.3	1411.9	1411.9	1414.5	1421.3	1424.6	1425.5
15°	1435.5	1438.1	1430.5	1419.5	1417.1	1414.5	1413.7	1417.1	1424.6	1430.5	1431.3
17.5°	1444.8	1447.4	1435.5	1420.4	1417.1	1417.9	1417.1	1419.5	1431.3	1442.3	1442.3
20°	1453.2	1455.0	1438.9	1420.4	1417.1	1417.9	1417.1	1422.1	1437.3	1452.4	1453.2
22.5°	1455.8	1457.4	1442.3	1426.3	1423.7	1424.6	1423.7	1428.8	1443.1	1458.3	1458.3
25°	1456.6	1459.2	1447.4	1434.7	1438.9	1440.6	1438.9	1439.8	1450.7	1464.2	1463.4
27.5°	1469.2	1472.6	1461.6	1450.7	1453.2	1452.4	1455.0	1457.4	1465.9	1479.4	1476.0
30°	1495.4	1497.9	1488.6	1477.6	1476.0	1470.1	1477.6	1486.1	1495.4	1507.2	1504.6
32.5°	1538.3	1543.4	1531.6	1519.8	1512.2	1508.9	1514.7	1529.1	1541.7	1554.3	1549.3
35°	1610.0	1613.4	1602.4	1580.4	1567.0	1567.0	1572.0	1590.6	1610.8	1626.8	1620.9
37.5°	1711.0	1715.2	1695.9	1669.7	1649.5	1649.5	1656.3	1675.7	1706.0	1728.8	1720.4
40°	1834.0	1840.0	1815.5	1788.5	1769.2	1765.8	1774.3	1796.1	1824.8	1853.4	1844.2
42.5°	1982.4	1989.0	1957.0	1933.5	1918.3	1918.3	1922.5	1942.7	1968.8	2004.2	2001.7
45°	2171.9	2183.7	2139.9	2116.3	2102.0	2105.4	2107.8	2125.5	2149.1	2189.6	2187.9
47.5°	2397.7	2409.5	2363.1	2338.6	2336.2	2352.2	2342.0	2354.7	2367.3	2413.7	2400.1
50°	2653.7	2674.0	2641.9	2640.3	2645.3	2674.8	2651.3	2657.9	2643.7	2673.1	2655.5
52.5°	2967.2	2996.7	2990.7	3000.9	3057.3	3117.9	3064.0	3040.5	2986.5	2995.8	2964.6
55°	3347.1	3391.7	3400.2	3460.8	3588.9	3712.8	3598.2	3502.9	3388.3	3367.3	3334.4
57.5°	3779.3	3814.6	3855.1	3978.9	4218.2	4438.1	4218.2	4007.6	3827.3	3784.4	3754.1
60°	4244.3	4288.2	4326.9	4509.7	4865.3	5174.4	4858.5	4524.0	4285.6	4227.5	4177.0
62.5°	4743.9	4800.4	4827.3	5030.4	5444.8	5813.8	5450.7	5045.6	4781.0	4718.7	4668.1
65°	5223.3	5269.6	5300.0	5516.4	5912.4	6282.2	5939.4	5540.0	5267.9	5186.2	5145.8
67.5°	5446.5	5471.8	5546.0	5791.1	6208.9	6631.0	6279.8	5817.2	5513.1	5369.9	5371.5
70°	5119.7	5068.3	5246.9	5639.4	6244.3	6845.1	6325.3	5627.7	5255.3	5022.8	5078.4
72.5°	3956.2	3867.7	4177.8	4849.3	5839.9	6708.5	5880.4	4887.1	4370.7	3898.9	4016.1
75°	2152.5	2052.3	2480.2	3329.4	4657.2	5814.7	4764.1	3424.6	2761.6	2136.5	2275.5
77.5°	607.4	569.5	914.9	1610.8	2801.2	4082.6	2909.1	1646.2	1085.1	643.6	715.2
80°	186.1	180.3	244.4	485.2	1189.5	1955.4	1143.2	491.2	310.9	196.3	207.3
82.5°	110.4	101.1	121.4	176.9	303.3	614.2	294.9	184.5	148.3	99.4	107.8
85°	63.1	58.9	71.6	85.9	102.0	130.6	85.1	87.6	79.2	53.1	55.6
87.5°	26.1	23.6	27.8	27.0	23.6	30.3	22.8	27.0	32.0	21.0	19.4
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)