

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: P963652

Luminaire Tested: **NAV-SB3A-830-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963652
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3A-830-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12989.8 lumens
Efficiency: N/A
Efficacy: 153.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 84.7
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

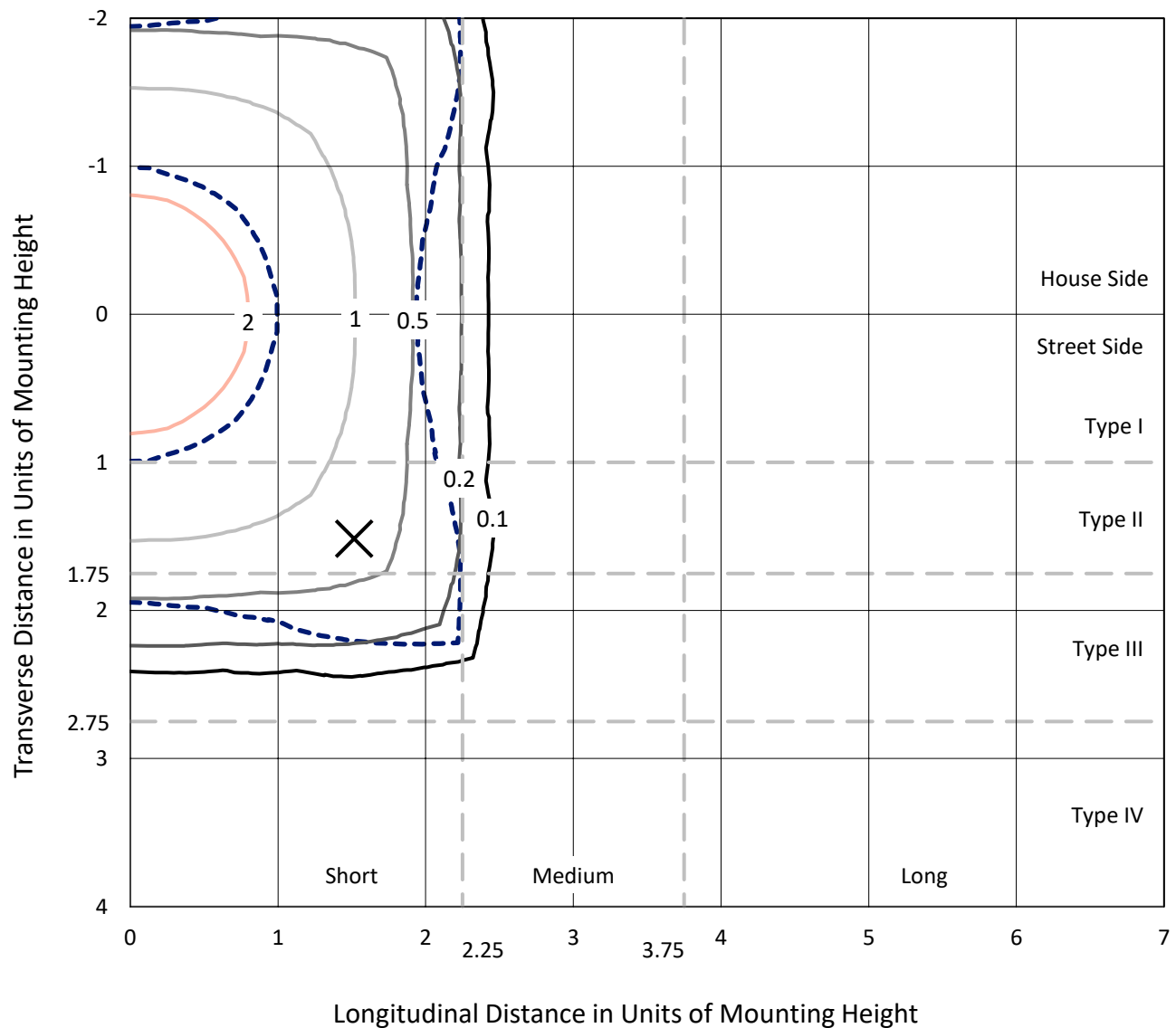


REPORT NUMBER: P963652

CATALOG NUMBER: NAV-SB3A-830-U-5NQ

Iso-Footcandle Lines of Horizontal Illumination

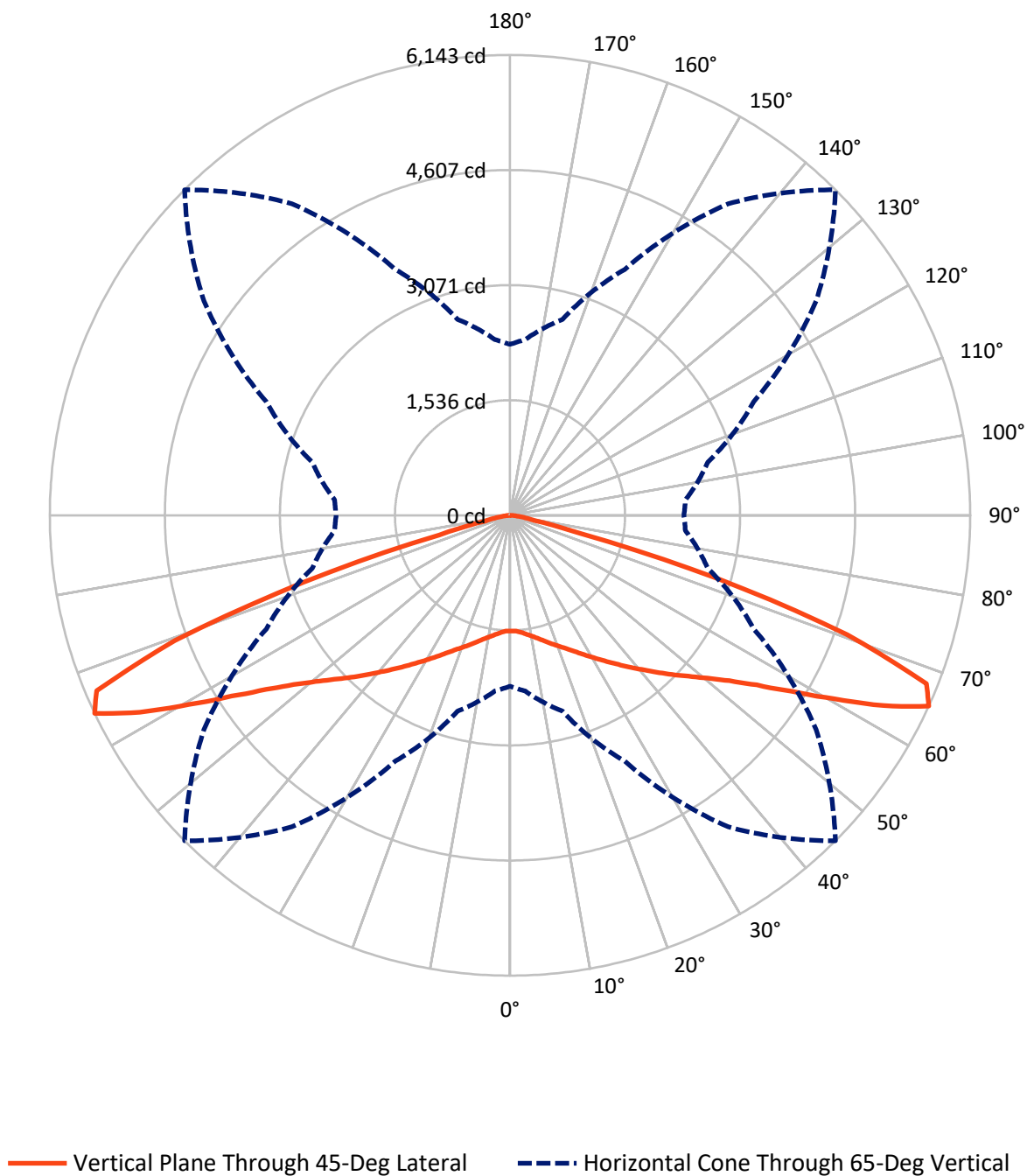
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
Type V - Short - N/A

REPORT NUMBER: P963652
CATALOG NUMBER: NAV-SB3A-830-U-5NQ

Luminous Intensity Polar Plot



REPORT NUMBER: P963652

CATALOG NUMBER: NAV-SB3A-830-U-5NQ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6494.9	0.0	6494.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6494.9	0.0	6494.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	12989.8	0.0	12989.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.6	1.2
10°-20°	497.8	3.8
20°-30°	940.0	7.2
30°-40°	1539.2	11.8
40°-50°	2386.5	18.4
50°-60°	3525.4	27.1
60°-70°	3355.8	25.8
70°-80°	541.5	4.2
80°-90°	51.0	0.4
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°	12989.8	100.0
0°-180°	12989.8	100.0

Coefficient of Utilization



REPORT NUMBER: P963652

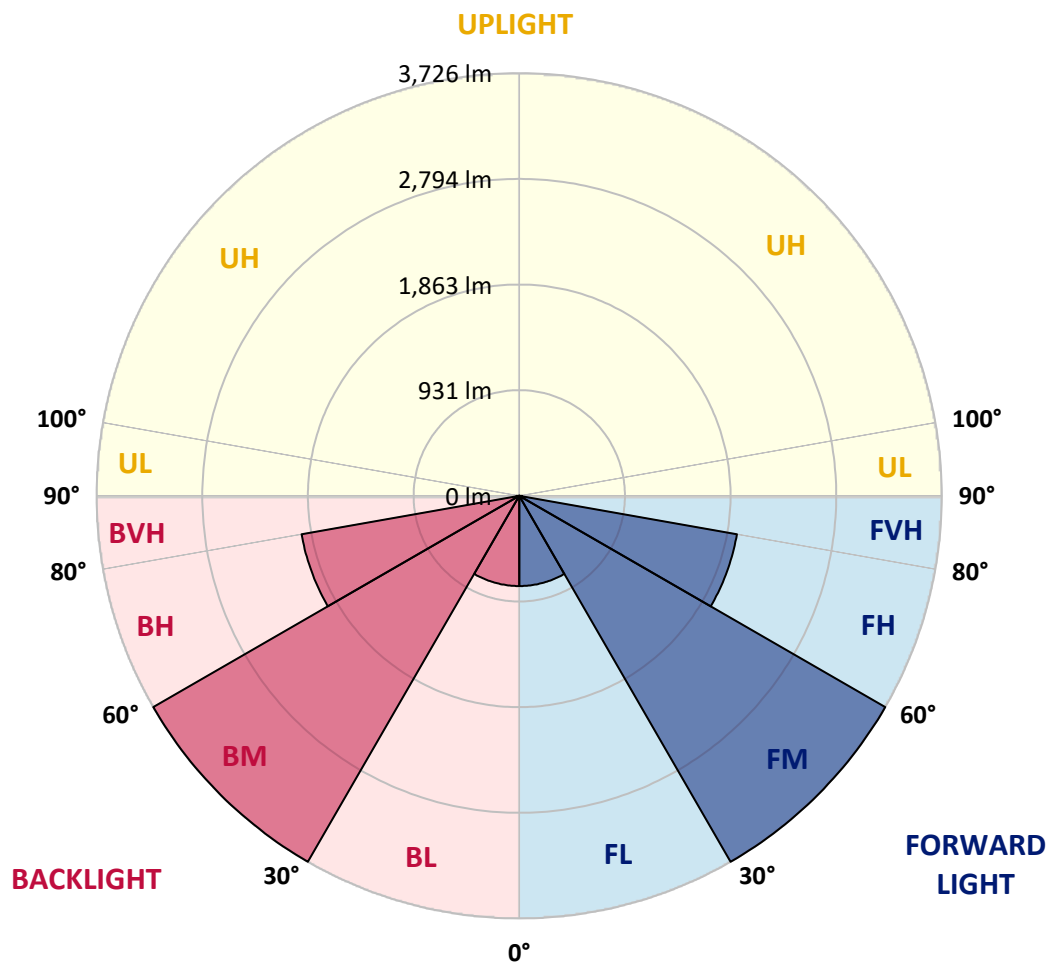
CATALOG NUMBER: NAV-SB3A-830-U-5NQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	795.2	6.1			
FM	(30°-60°)	3725.5	28.7			
FH	(60°-80°)	1948.7	15.0			G2/5000
FVH	(80°-90°)	25.5	0.2			G1/100
BL	(0°-30°)	795.2	6.1	B2/1000		
BM	(30°-60°)	3725.5	28.7	B3/5000		
BH	(60°-80°)	1948.7	15.0	B3/2500		G2/5000
BVH	(80°-90°)	25.5	0.2			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



REPORT NUMBER: P963652

CATALOG NUMBER: NAV-SB3A-830-U-5NQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1545.9	1545.9	1545.9	1545.9	1545.9	1545.9	1545.9	1545.9	1545.9	1545.9	1545.9
2.5°	1556.4	1551.1	1555.0	1551.7	1549.2	1546.5	1547.9	1552.5	1554.4	1555.0	1555.0
5°	1577.2	1572.7	1574.6	1574.6	1570.0	1568.8	1569.4	1572.7	1576.6	1576.6	1576.6
7.5°	1611.1	1606.5	1611.1	1608.5	1604.5	1603.3	1602.6	1605.3	1611.1	1611.1	1609.1
10°	1652.2	1647.0	1649.5	1648.2	1643.7	1641.7	1641.0	1645.0	1650.1	1649.5	1648.2
12.5°	1697.1	1691.2	1694.5	1690.6	1689.3	1687.4	1687.4	1686.7	1689.9	1687.4	1688.7
15°	1747.3	1743.4	1744.7	1742.1	1744.0	1742.7	1737.6	1734.9	1736.2	1732.4	1733.0
17.5°	1806.6	1797.4	1802.1	1800.7	1800.7	1803.4	1794.9	1791.6	1794.3	1790.4	1793.5
20°	1875.0	1865.9	1867.9	1865.3	1862.0	1864.6	1854.2	1856.8	1858.7	1856.2	1862.0
22.5°	1950.0	1938.3	1937.7	1938.9	1931.7	1932.4	1925.3	1931.7	1935.6	1928.5	1935.6
25°	2026.9	2014.5	2022.9	2019.8	2010.6	2012.6	2007.4	2013.8	2017.1	2008.0	2018.4
27.5°	2108.3	2099.9	2107.7	2109.7	2098.6	2106.4	2098.6	2104.4	2107.7	2094.1	2104.4
30°	2203.5	2195.0	2202.2	2207.4	2194.4	2206.8	2200.3	2204.2	2204.8	2188.6	2198.3
32.5°	2307.2	2294.2	2312.4	2315.0	2300.6	2315.6	2307.2	2312.4	2315.6	2293.4	2308.4
35°	2433.6	2417.3	2438.2	2434.9	2422.5	2434.9	2427.1	2434.9	2442.7	2416.0	2432.3
37.5°	2569.8	2552.9	2575.0	2569.2	2557.4	2565.9	2561.4	2566.5	2578.9	2550.2	2567.8
40°	2719.7	2698.8	2728.9	2718.4	2707.3	2706.0	2708.7	2711.8	2728.1	2696.3	2706.6
42.5°	2880.0	2857.9	2902.8	2886.5	2870.9	2860.5	2869.0	2875.4	2891.1	2855.2	2874.2
45°	3063.2	3037.8	3096.4	3076.8	3052.0	3030.6	3044.2	3054.0	3076.8	3033.8	3056.0
47.5°	3265.2	3236.5	3299.1	3293.2	3252.8	3205.9	3237.2	3265.2	3282.2	3230.0	3247.6
50°	3462.7	3440.5	3522.6	3529.8	3480.3	3414.5	3458.1	3500.5	3505.1	3436.6	3445.1
52.5°	3647.8	3625.6	3744.8	3789.8	3745.6	3667.3	3713.6	3756.6	3722.1	3633.4	3636.1
55°	3795.7	3777.4	3929.3	4045.4	4060.3	3995.8	4023.1	4021.9	3908.4	3772.2	3776.8
57.5°	3831.6	3829.0	4020.6	4266.3	4422.7	4430.5	4376.4	4238.3	3993.8	3810.7	3799.0
60°	3668.6	3684.9	3948.2	4381.7	4798.7	4972.1	4738.2	4343.8	3896.7	3642.5	3612.6
62.5°	3181.1	3224.1	3541.6	4240.8	5102.4	5595.2	5028.1	4183.5	3497.9	3166.1	3146.5
65°	2279.8	2354.7	2705.4	3619.1	5075.1	6142.6	4986.4	3589.8	2731.4	2348.9	2320.8
67.5°	1034.3	1110.6	1408.5	2477.9	4411.6	5994.0	4401.1	2504.0	1478.8	1114.5	1098.2
70°	374.7	387.8	483.6	991.9	2819.4	4775.9	2940.0	999.1	514.2	413.2	408.0
72.5°	226.8	228.8	249.0	355.2	979.6	2899.6	1021.3	367.0	254.2	225.5	229.4
75°	144.0	142.7	177.2	217.0	347.4	978.3	364.3	217.0	176.6	161.0	162.3
77.5°	103.6	106.9	127.1	162.3	218.9	331.7	215.0	155.1	127.1	104.2	106.2
80°	77.6	79.5	92.6	126.5	153.9	206.6	136.8	114.7	95.8	65.2	67.1
82.5°	56.1	56.1	60.6	91.9	93.9	111.4	74.3	80.8	63.2	46.2	46.2
85°	33.2	32.6	37.8	54.7	48.9	41.1	33.9	49.5	39.8	28.7	28.0
87.5°	11.7	12.4	11.7	15.7	13.0	11.1	10.5	13.7	11.1	9.7	9.1
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)