

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: P961543

Luminaire Tested: **NAV-SB2A-830-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961543
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2A-830-U-5MQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8653.1 lumens
Efficiency: N/A
Efficacy: 151.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

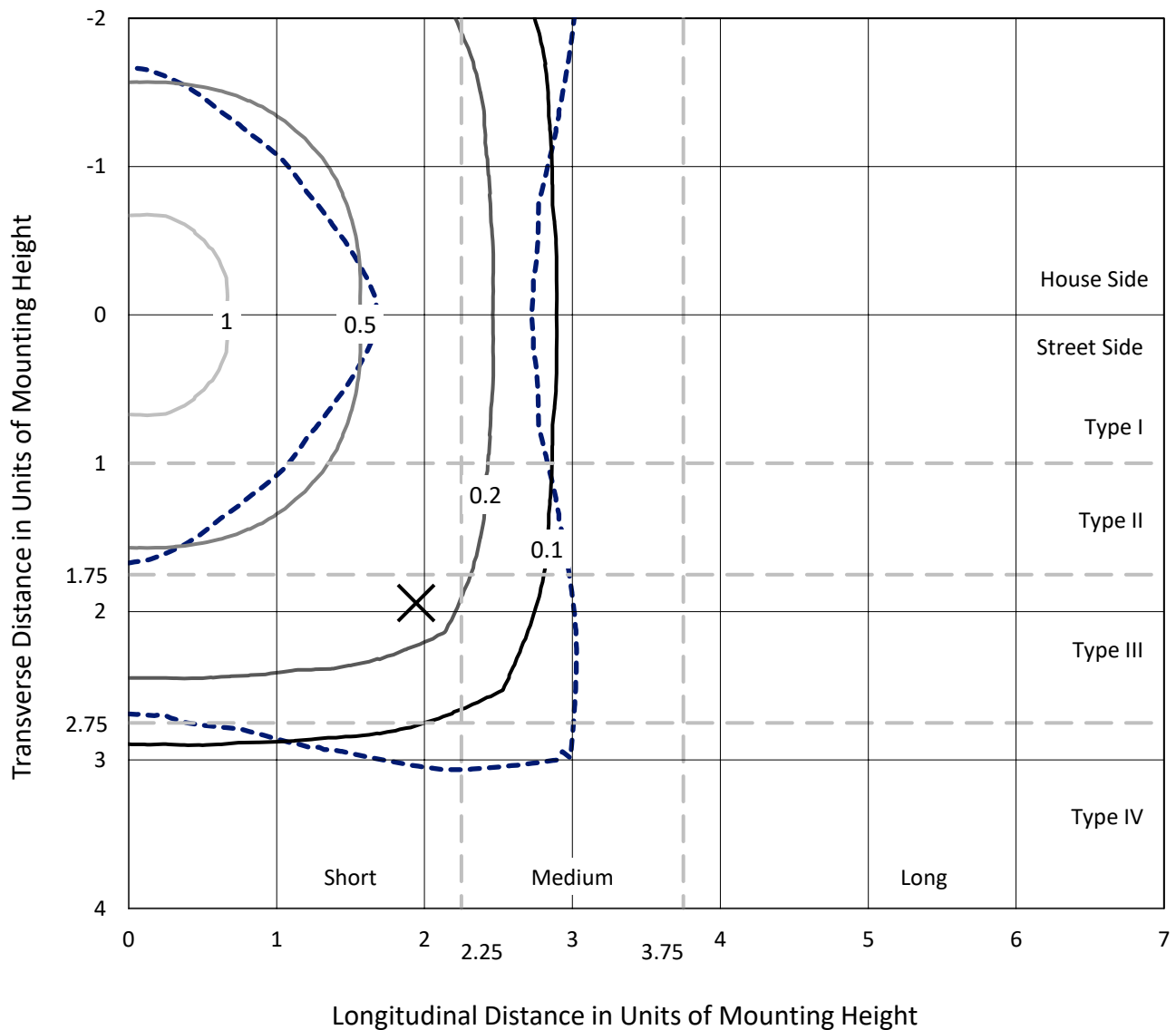
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P961543
CATALOG NUMBER: NAV-SB2A-830-U-5MQ

Iso-Footcandle Lines of Horizontal Illumination

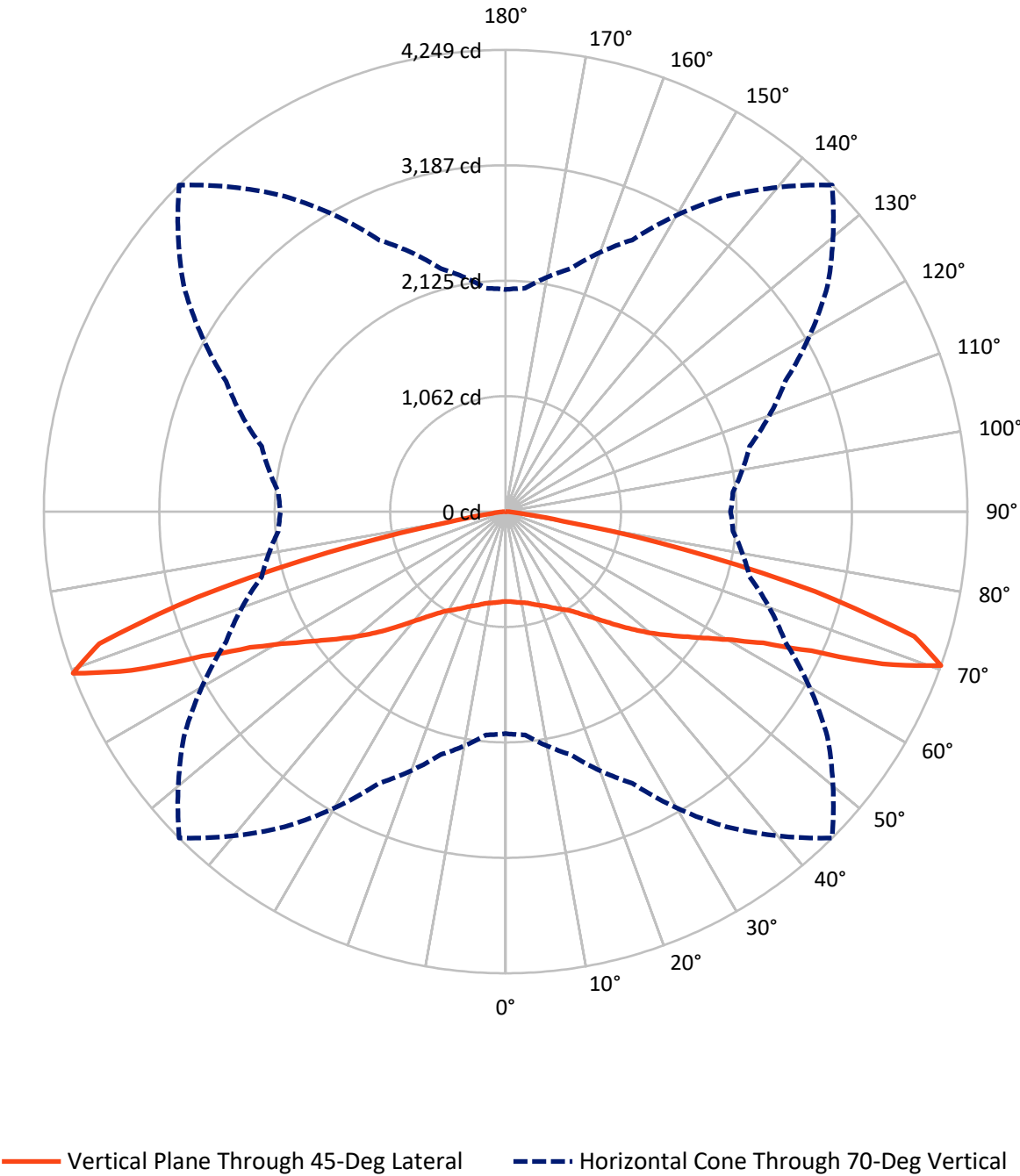
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
Type V - Short - N/A

REPORT NUMBER: P961543
CATALOG NUMBER: NAV-SB2A-830-U-5MQ

Luminous Intensity Polar Plot



REPORT NUMBER: P961543

CATALOG NUMBER: NAV-SB2A-830-U-5MQ

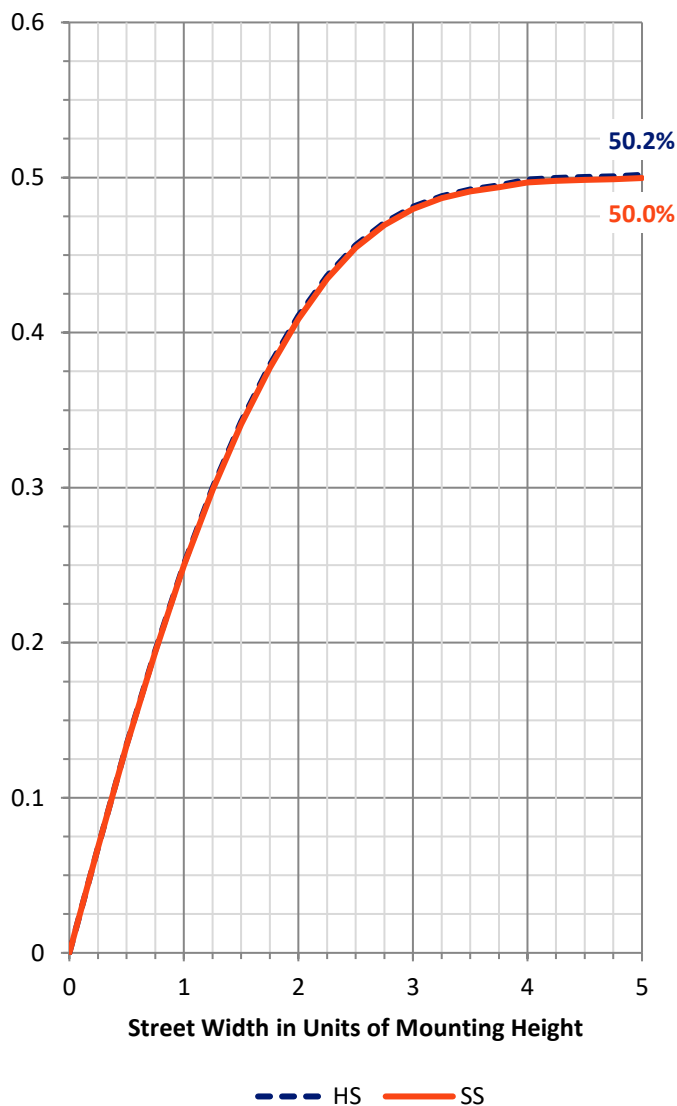
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4326.5	0.0	4326.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4326.5	0.0	4326.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	8653.1	0.0	8653.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.5	0.9
10°-20°	249.7	2.9
20°-30°	446.2	5.2
30°-40°	723.3	8.4
40°-50°	1178.2	13.6
50°-60°	1796.4	20.8
60°-70°	2672.5	30.9
70°-80°	1456.6	16.8
80°-90°	49.6	0.6
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°	8653.1	100.0
0°-180°	8653.1	100.0

Coefficient of Utilization



REPORT NUMBER: P961543

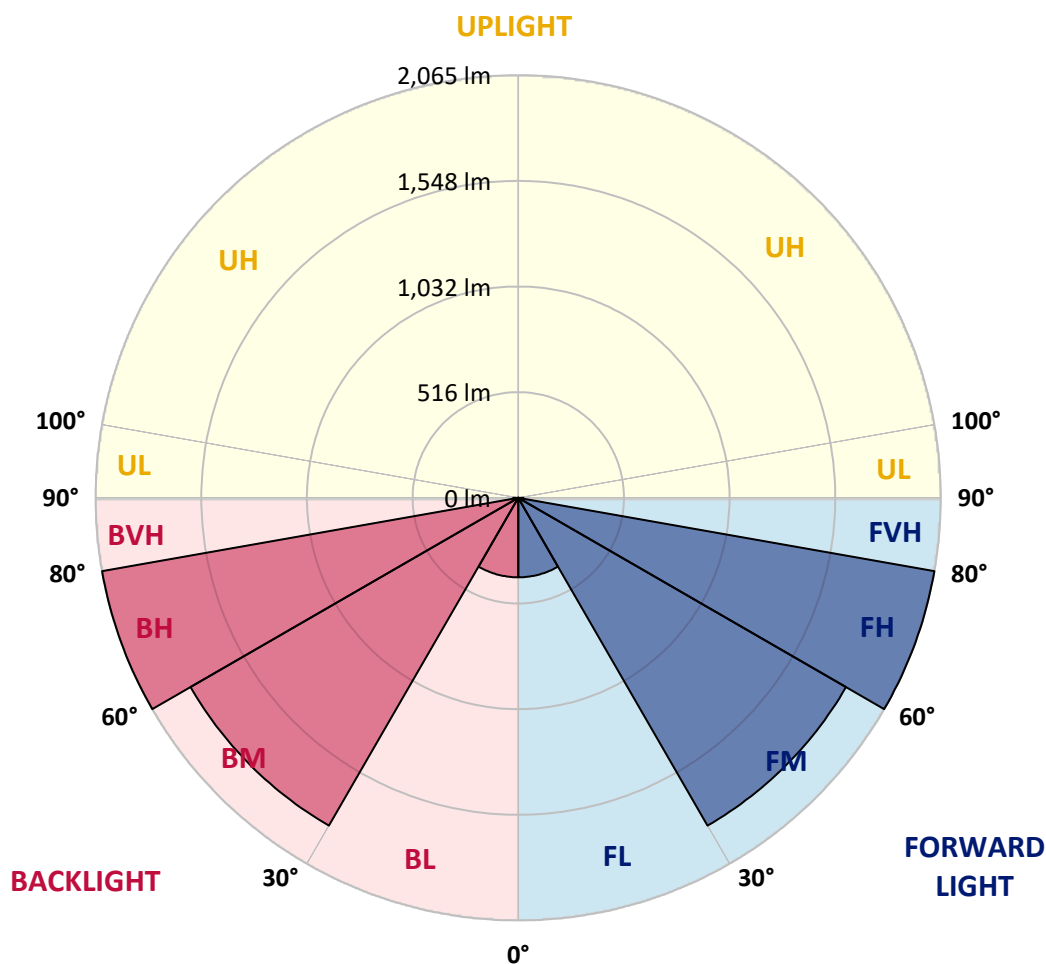
CATALOG NUMBER: NAV-SB2A-830-U-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	388.2	4.5			
FM	(30°-60°)	1849.0	21.4			
FH	(60°-80°)	2064.5	23.9			G2/5000
FVH	(80°-90°)	24.8	0.3			G1/100
BL	(0°-30°)	388.2	4.5	B1/500		
BM	(30°-60°)	1849.0	21.4	B2/2500		
BH	(60°-80°)	2064.5	23.9	B3/2500		G2/5000
BVH	(80°-90°)	24.8	0.3			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: P961543

CATALOG NUMBER: NAV-SB2A-830-U-5MQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	828.9	828.9	828.9	828.9	828.9	828.9	828.9	828.9	828.9	828.9	828.9
2.5°	832.8	833.6	831.9	831.1	830.1	828.9	829.3	831.5	833.2	832.8	833.2
5°	839.8	840.6	839.3	838.9	837.1	836.7	836.7	838.9	840.2	839.3	839.8
7.5°	847.6	848.9	846.6	846.2	845.4	844.5	844.1	846.2	847.6	847.6	847.6
10°	855.0	856.3	854.5	853.2	852.3	852.3	851.5	853.2	855.4	855.0	855.0
12.5°	862.7	863.7	861.9	861.0	861.0	862.3	861.0	861.9	863.7	862.7	862.3
15°	872.3	872.8	872.3	873.6	875.8	880.2	876.3	875.4	876.3	874.0	874.0
17.5°	885.4	886.2	888.0	891.0	894.0	901.9	894.9	892.8	892.8	888.4	888.4
20°	901.4	902.7	905.3	910.5	914.4	921.9	914.9	911.8	910.5	904.9	904.9
22.5°	918.4	920.6	924.4	931.4	938.4	945.3	938.4	933.2	929.3	921.9	921.4
25°	937.9	940.5	946.6	957.9	967.5	977.4	969.2	958.8	951.0	940.5	940.1
27.5°	965.8	968.7	976.1	990.0	1002.2	1010.9	1003.1	989.6	978.8	966.2	965.8
30°	1004.8	1007.9	1016.5	1031.4	1039.6	1045.2	1040.0	1029.6	1016.5	1002.2	1002.2
32.5°	1055.2	1059.1	1068.7	1082.6	1084.3	1085.2	1083.4	1078.2	1068.7	1051.3	1051.8
35°	1119.1	1123.4	1134.3	1145.5	1143.8	1145.5	1143.0	1141.2	1134.3	1114.3	1114.3
37.5°	1197.3	1202.4	1213.8	1222.4	1218.1	1216.0	1216.4	1216.8	1212.9	1190.7	1190.7
40°	1288.0	1295.0	1303.3	1312.4	1305.0	1298.5	1302.8	1306.3	1302.8	1280.2	1280.2
42.5°	1381.5	1391.4	1400.1	1413.2	1407.1	1398.8	1404.9	1408.9	1401.5	1377.1	1378.8
45°	1485.3	1494.9	1506.1	1525.7	1521.3	1512.7	1521.3	1522.2	1509.6	1480.9	1484.0
47.5°	1592.5	1602.6	1619.5	1645.5	1643.9	1634.3	1645.5	1639.5	1623.4	1589.1	1586.9
50°	1694.2	1708.2	1734.2	1770.7	1774.2	1762.5	1777.7	1765.9	1739.0	1696.0	1695.1
52.5°	1789.9	1804.6	1845.8	1895.3	1907.9	1892.8	1913.2	1892.8	1852.4	1797.2	1792.0
55°	1890.2	1906.7	1955.8	2020.5	2045.7	2034.4	2053.5	2022.6	1965.3	1898.4	1889.3
57.5°	2008.3	2018.3	2077.0	2153.8	2196.5	2199.0	2207.7	2155.6	2086.1	2010.0	1999.7
60°	2136.5	2150.3	2214.2	2306.4	2373.7	2395.4	2386.3	2308.9	2228.1	2140.8	2126.9
62.5°	2300.7	2315.9	2392.4	2502.7	2609.1	2663.0	2627.4	2515.2	2415.4	2310.7	2292.4
65°	2436.6	2453.6	2591.7	2788.5	2982.3	3090.5	3001.0	2794.7	2614.8	2467.1	2442.8
67.5°	2338.0	2358.9	2575.7	2937.1	3418.9	3741.7	3435.4	2981.4	2629.1	2428.8	2398.9
70°	2043.5	2063.0	2315.9	2757.7	3541.8	4249.0	3615.7	2838.9	2324.2	2100.0	2070.0
72.5°	1356.7	1419.7	1675.6	2205.6	3162.5	3931.9	3193.9	2160.8	1554.3	1353.6	1309.7
75°	450.1	500.4	675.1	1143.4	2118.3	2940.6	2016.6	1011.8	534.7	384.9	364.1
77.5°	113.4	130.8	180.3	327.1	844.9	1674.2	760.7	267.2	145.5	101.7	90.8
80°	55.1	60.8	86.9	109.1	211.6	532.2	198.5	102.5	68.7	53.0	48.7
82.5°	30.4	30.9	49.1	61.7	78.6	137.8	81.7	60.0	39.6	32.2	32.2
85°	18.7	18.2	26.0	33.0	33.0	49.1	39.1	33.0	22.5	20.0	20.8
87.5°	7.4	7.4	9.5	10.5	9.1	12.6	9.9	10.9	8.7	8.3	8.7
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)