

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: P961548

Luminaire Tested: **NAV-SB2A-830-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961548
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-SB2A-830-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

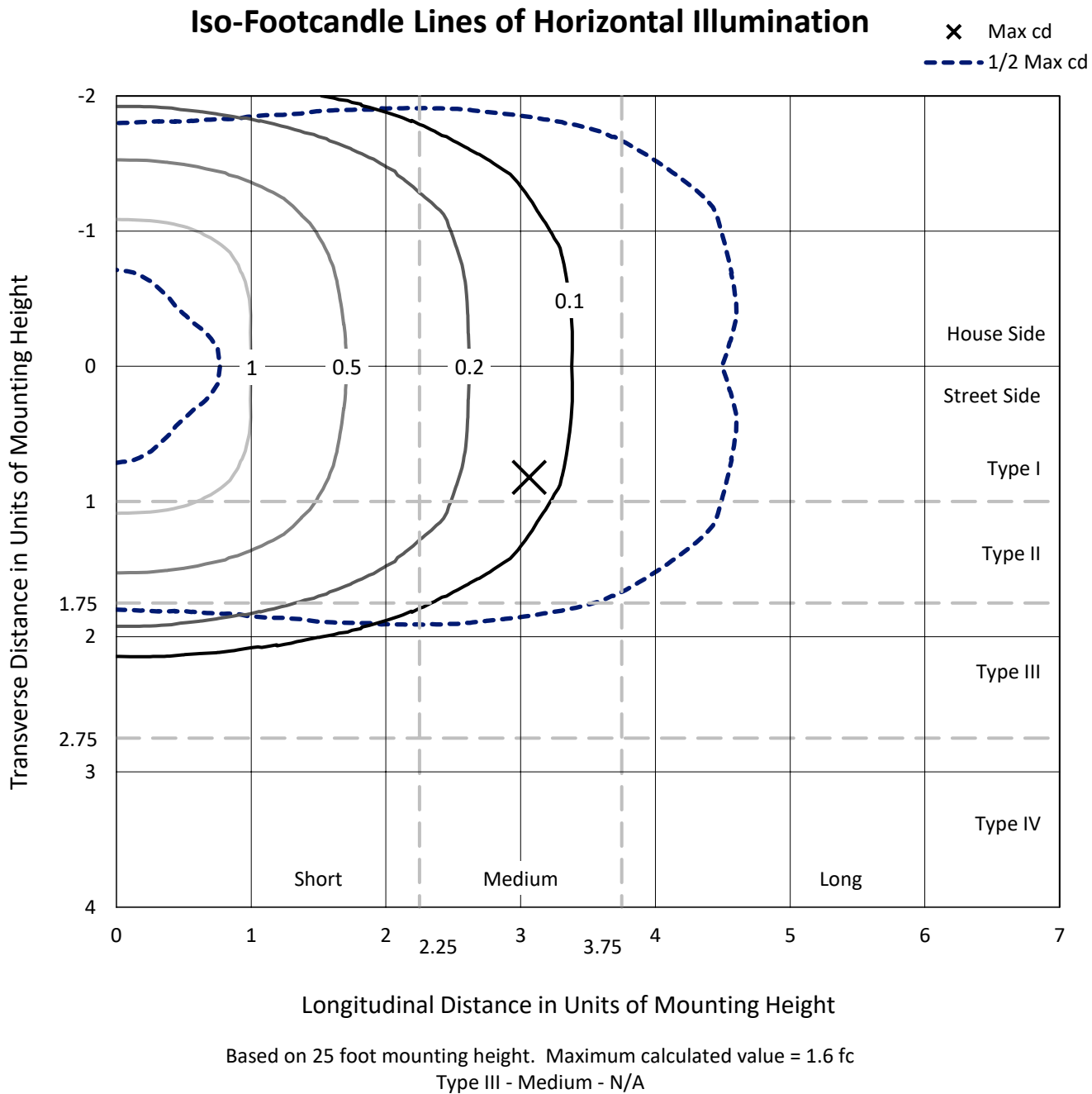
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8507.5 lumens
Efficiency: N/A
Efficacy: 148.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

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

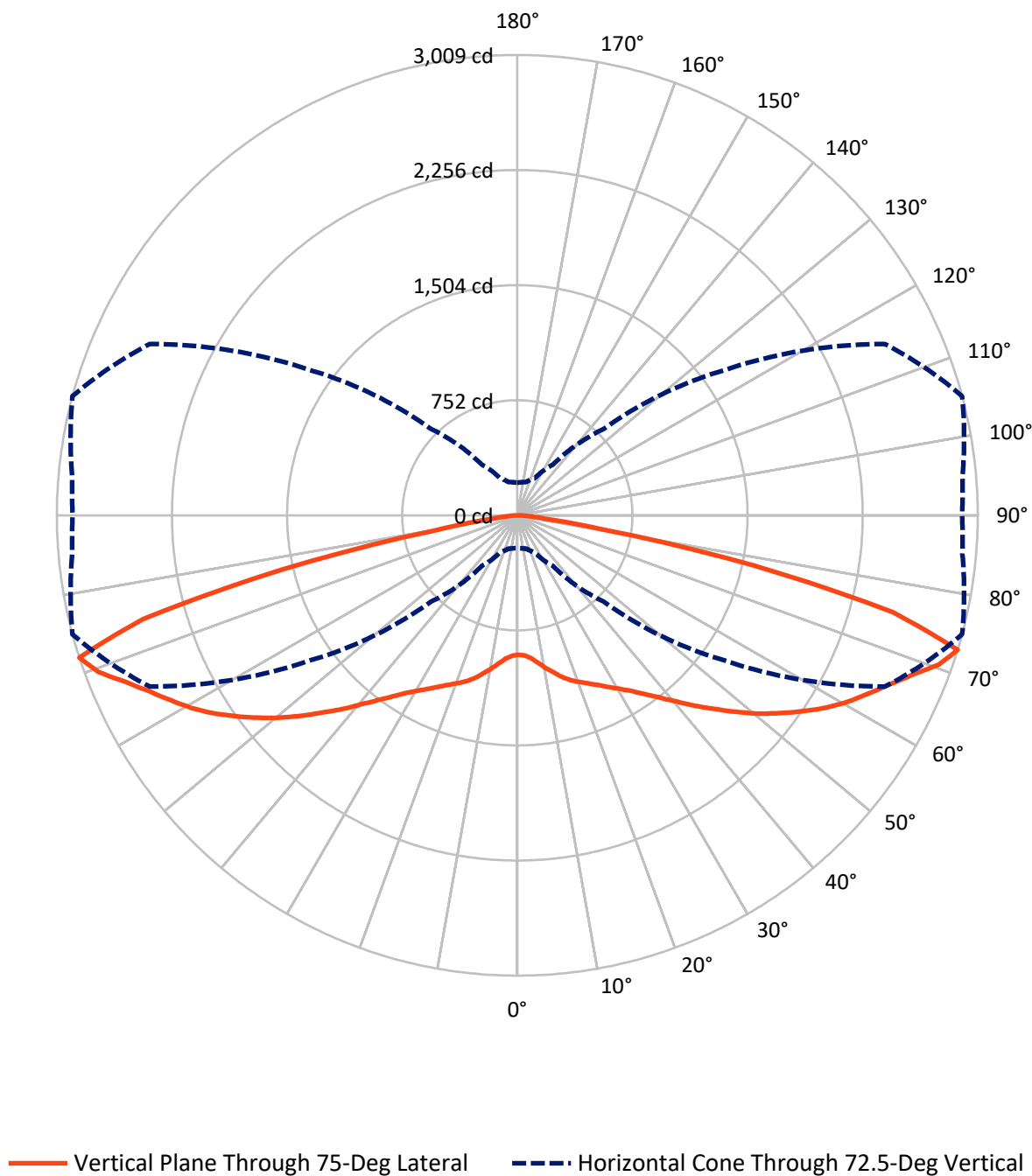


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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4253.7	0.0	4253.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4253.7	0.0	4253.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	8507.5	0.0	8507.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.3	1.0
10°-20°	294.4	3.5
20°-30°	568.9	6.7
30°-40°	960.7	11.3
40°-50°	1523.5	17.9
50°-60°	2039.8	24.0
60°-70°	1941.2	22.8
70°-80°	1013.0	11.9
80°-90°	76.7	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°	8507.5	100.0
0°-180°	8507.5	100.0

Coefficient of Utilization



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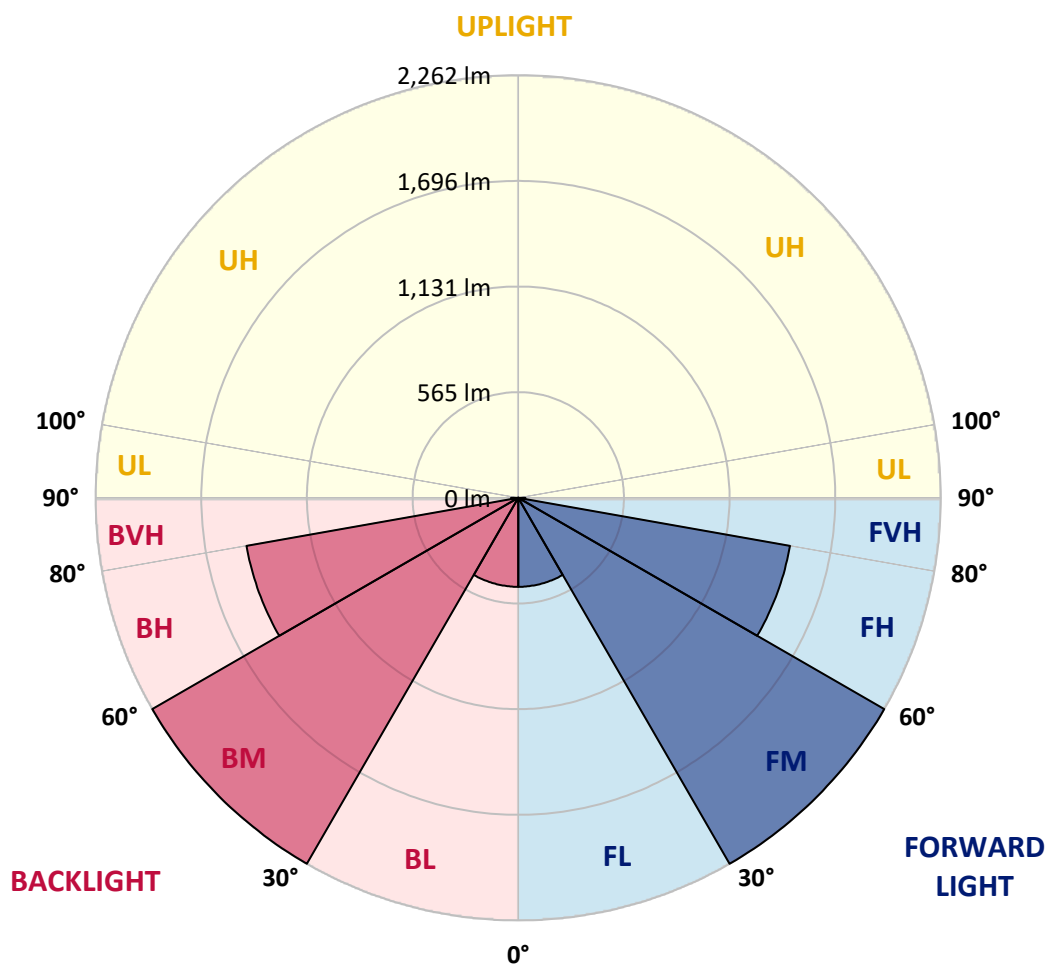
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	476.3	5.6			
FM	(30°-60°)	2262.0	26.6			
FH	(60°-80°)	1477.1	17.4			G1/1800
FVH	(80°-90°)	38.3	0.5			G1/100
BL	(0°-30°)	476.3	5.6	B1/500		
BM	(30°-60°)	2262.0	26.6	B2/2500		
BH	(60°-80°)	1477.1	17.4	B3/2500		G3/2500
BVH	(80°-90°)	38.3	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	911.3	911.3	911.3	911.3	911.3	911.3	911.3	911.3	911.3	911.3	911.3
2.5°	911.3	910.4	911.3	912.1	911.7	911.7	913.9	915.2	917.8	917.4	917.0
5°	905.2	904.8	908.3	912.1	915.2	920.4	926.9	931.7	937.8	939.1	939.1
7.5°	902.2	900.9	906.9	913.9	923.4	936.5	949.0	962.2	972.5	976.0	976.9
10°	904.4	904.8	913.1	926.1	941.3	959.5	977.3	999.5	1014.2	1017.7	1021.2
12.5°	914.3	913.5	927.4	948.2	969.0	992.1	1012.9	1037.3	1053.4	1061.6	1065.1
15°	932.5	930.8	950.4	981.2	1011.7	1038.5	1055.5	1078.5	1097.3	1107.6	1111.5
17.5°	954.3	955.2	980.8	1020.8	1060.8	1091.1	1107.2	1118.9	1133.2	1142.4	1146.8
20°	992.5	994.2	1023.0	1070.3	1115.9	1150.7	1163.7	1159.4	1163.3	1170.1	1175.4
22.5°	1043.8	1044.7	1076.8	1128.0	1175.9	1214.0	1222.7	1205.0	1194.1	1198.8	1202.3
25°	1103.3	1108.9	1141.1	1193.6	1242.7	1279.2	1283.1	1256.2	1229.3	1230.6	1232.8
27.5°	1175.9	1181.0	1213.6	1265.8	1315.7	1347.4	1347.0	1311.0	1271.4	1261.4	1264.4
30°	1254.5	1260.1	1293.6	1347.4	1393.9	1421.7	1415.6	1372.6	1316.1	1297.4	1299.6
32.5°	1347.9	1351.4	1385.2	1439.1	1482.0	1504.2	1491.6	1438.6	1368.3	1347.0	1352.2
35°	1460.8	1466.0	1491.2	1542.0	1579.8	1598.1	1576.8	1514.2	1435.2	1411.2	1414.7
37.5°	1589.8	1586.3	1615.0	1660.2	1691.5	1702.7	1673.6	1599.3	1511.6	1483.4	1488.6
40°	1724.5	1722.7	1754.0	1797.4	1814.4	1821.3	1778.3	1697.1	1599.8	1569.4	1579.3
42.5°	1846.5	1845.2	1887.3	1935.5	1956.0	1948.1	1893.9	1800.9	1701.8	1667.1	1675.8
45°	1944.2	1942.5	1994.1	2062.0	2101.9	2088.8	2015.9	1915.5	1805.2	1769.2	1777.5
47.5°	2019.4	2020.3	2075.8	2159.7	2229.6	2234.4	2140.6	2032.4	1919.0	1878.2	1890.4
50°	2073.7	2076.2	2135.8	2228.8	2324.3	2366.4	2267.8	2152.3	2036.8	1990.8	2004.6
52.5°	2087.1	2091.9	2163.6	2272.6	2385.1	2465.4	2397.3	2267.4	2148.4	2104.5	2115.8
55°	2015.5	2025.0	2115.8	2269.1	2422.5	2530.6	2511.0	2384.3	2260.8	2215.7	2228.4
57.5°	1850.8	1864.3	1970.3	2170.5	2414.2	2575.4	2599.3	2496.3	2373.4	2329.9	2340.0
60°	1620.2	1636.3	1737.9	1956.4	2297.8	2591.9	2661.4	2605.3	2476.8	2434.7	2443.8
62.5°	1272.2	1293.1	1414.7	1671.1	2051.9	2515.0	2714.4	2704.0	2569.7	2517.2	2523.2
65°	816.2	838.3	966.5	1269.3	1724.0	2279.6	2730.9	2799.9	2667.9	2594.5	2603.6
67.5°	492.1	502.1	565.6	769.3	1260.1	1924.6	2591.0	2906.4	2782.6	2691.3	2698.3
70°	314.9	320.5	358.3	451.7	712.4	1404.4	2244.3	2926.4	2921.6	2790.9	2789.9
72.5°	213.7	215.5	225.4	267.5	403.1	798.0	1655.4	2649.2	3008.5	2919.0	2905.1
75°	156.4	165.9	182.0	189.4	228.9	398.7	948.6	1861.3	2535.4	2574.5	2479.8
77.5°	116.4	116.8	139.0	147.7	163.3	212.4	401.4	1039.0	1574.2	1652.8	1474.3
80°	98.6	93.4	93.0	119.0	122.9	132.5	179.4	358.7	563.9	341.8	258.4
82.5°	82.1	76.5	69.1	93.0	83.8	81.2	77.8	146.0	179.4	88.1	75.1
85°	57.3	54.7	52.2	60.8	47.8	40.8	37.3	68.2	75.5	37.3	33.0
87.5°	24.8	25.6	26.0	27.0	20.0	14.3	14.3	19.1	19.1	14.8	10.9
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)