

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: P960990

Luminaire Tested: **NAV-SB1D-827-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960990
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-SB1D-827-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 900mA LIGHTSQUARE WITH 26 LEDS AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: -

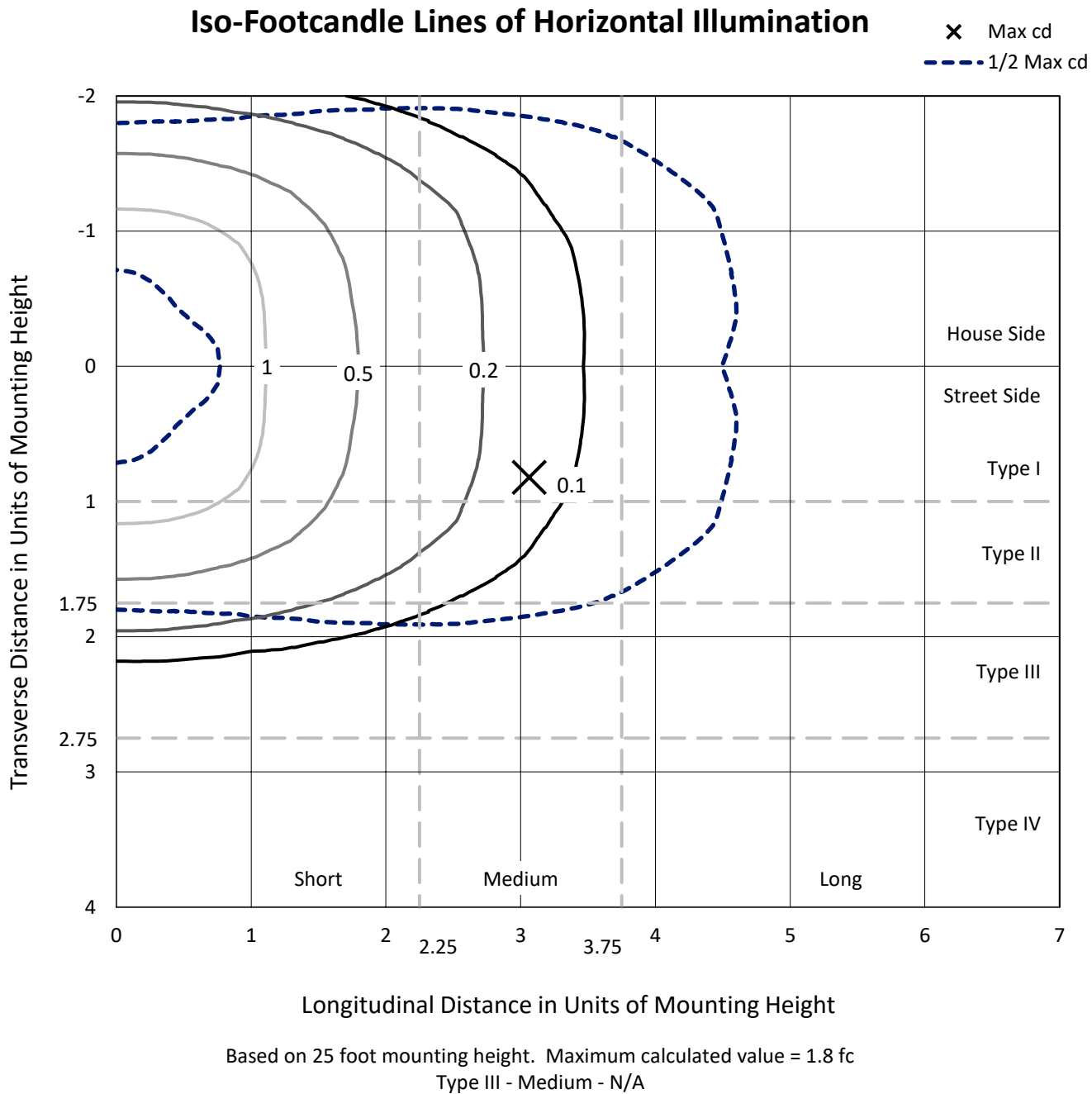
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9342.9 lumens
Efficiency: N/A
Efficacy: 117.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 79.6
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

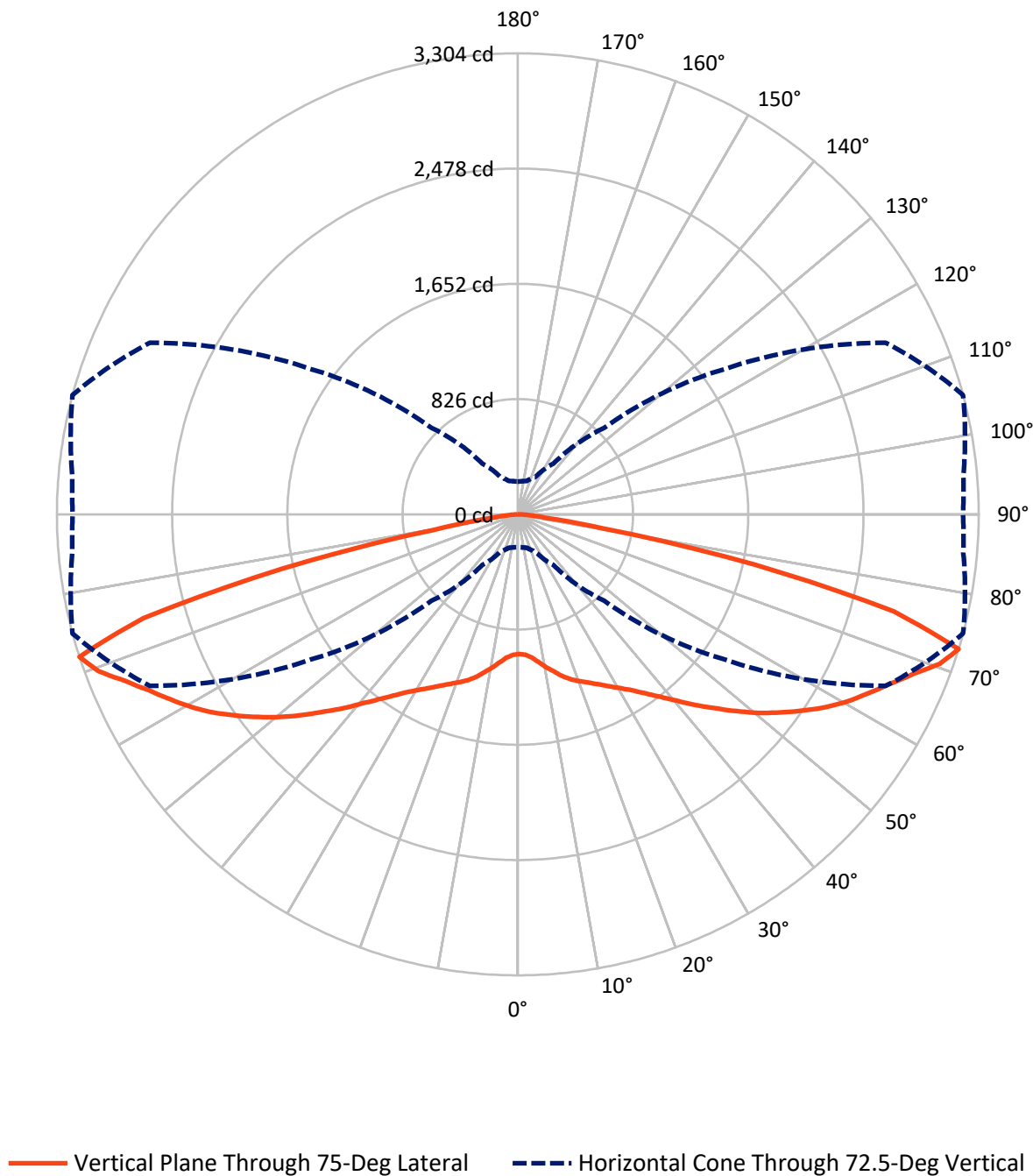


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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4671.4	0.0	4671.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4671.4	0.0	4671.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	9342.9	0.0	9342.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.0	1.0
10°-20°	323.3	3.5
20°-30°	624.8	6.7
30°-40°	1055.0	11.3
40°-50°	1673.1	17.9
50°-60°	2240.1	24.0
60°-70°	2131.9	22.8
70°-80°	1112.4	11.9
80°-90°	84.2	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°	9342.9	100.0
0°-180°	9342.9	100.0

Coefficient of Utilization



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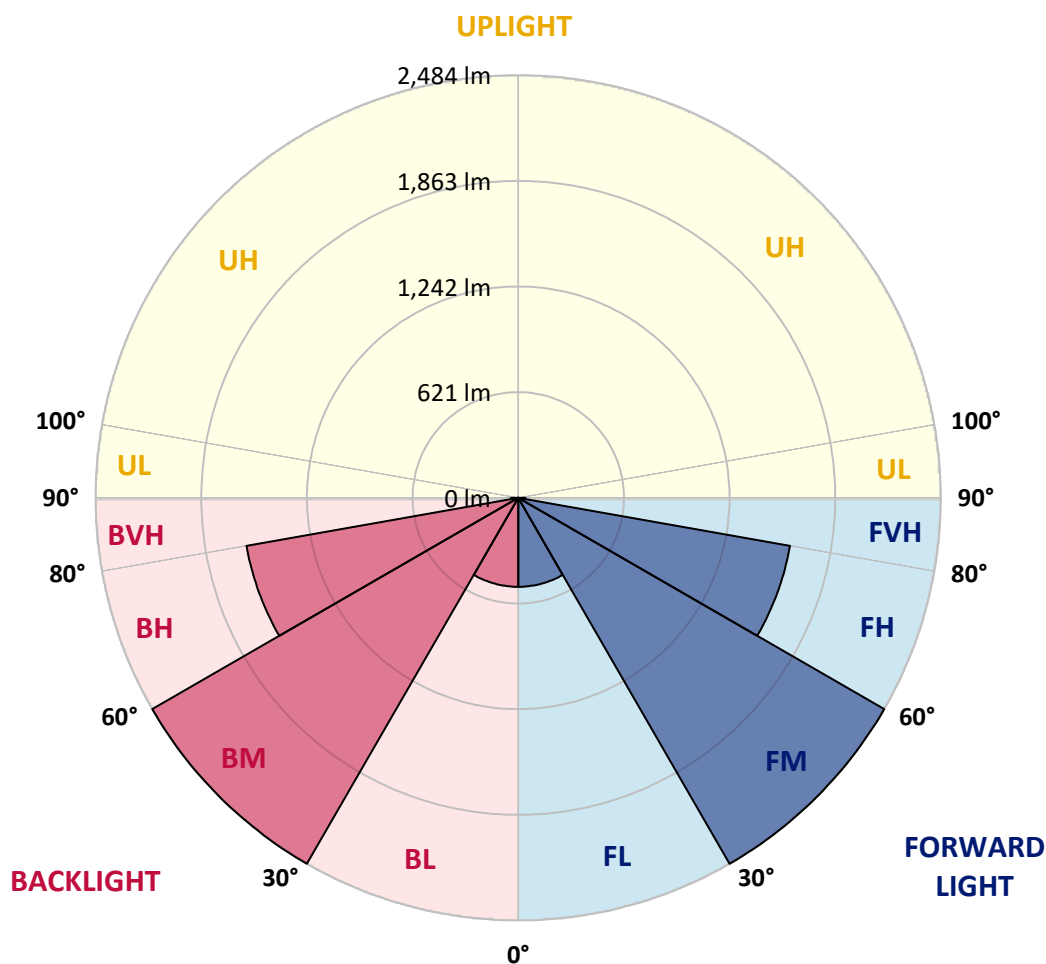
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	523.1	5.6			
FM	(30°-60°)	2484.1	26.6			
FH	(60°-80°)	1622.2	17.4			G1/1800
FVH	(80°-90°)	42.1	0.5			G1/100
BL	(0°-30°)	523.1	5.6	B2/1000		
BM	(30°-60°)	2484.1	26.6	B2/2500		
BH	(60°-80°)	1622.2	17.4	B3/2500		G3/2500
BVH	(80°-90°)	42.1	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°	1000.8	1000.8	1000.8	1000.8	1000.8	1000.8	1000.8	1000.8	1000.8	1000.8	1000.8
2.5°	1000.8	999.8	1000.8	1001.7	1001.2	1001.2	1003.7	1005.1	1008.0	1007.5	1007.0
5°	994.1	993.6	997.4	1001.7	1005.1	1010.9	1017.9	1023.3	1029.9	1031.4	1031.4
7.5°	990.8	989.3	996.0	1003.7	1014.1	1028.5	1042.3	1056.6	1068.0	1071.8	1072.9
10°	993.1	993.6	1002.7	1017.0	1033.7	1053.7	1073.3	1097.7	1113.9	1117.7	1121.5
12.5°	1004.1	1003.2	1018.4	1041.3	1064.3	1089.5	1112.4	1139.1	1156.8	1165.8	1169.6
15°	1024.2	1022.2	1043.8	1077.6	1111.0	1140.5	1159.2	1184.5	1205.0	1216.4	1220.7
17.5°	1048.1	1049.0	1077.1	1121.0	1164.9	1198.2	1216.0	1228.8	1244.6	1254.6	1259.3
20°	1090.0	1091.9	1123.4	1175.4	1225.5	1263.6	1278.0	1273.2	1277.5	1285.0	1290.8
22.5°	1146.3	1147.3	1182.5	1238.8	1291.3	1333.3	1342.9	1323.3	1311.3	1316.6	1320.4
25°	1211.7	1217.8	1253.2	1310.9	1364.8	1404.9	1409.2	1379.5	1349.9	1351.4	1353.8
27.5°	1291.3	1297.0	1332.8	1390.0	1444.9	1479.7	1479.3	1439.6	1396.3	1385.3	1388.6
30°	1377.6	1383.9	1420.5	1479.7	1530.7	1561.3	1554.6	1507.4	1445.4	1424.9	1427.2
32.5°	1480.2	1484.0	1521.2	1580.3	1627.6	1651.9	1638.1	1579.9	1502.6	1479.3	1484.9
35°	1604.2	1610.0	1637.6	1693.4	1734.9	1755.0	1731.6	1662.9	1576.0	1549.8	1553.7
37.5°	1745.9	1742.1	1773.6	1823.2	1857.5	1869.9	1837.9	1756.4	1660.0	1629.0	1634.8
40°	1893.8	1891.8	1926.2	1973.9	1992.5	2000.2	1952.9	1863.8	1756.8	1723.4	1734.4
42.5°	2027.9	2026.4	2072.7	2125.6	2148.0	2139.5	2079.8	1977.7	1869.0	1830.9	1840.4
45°	2135.2	2133.2	2190.0	2264.4	2308.3	2294.0	2213.9	2103.7	1982.5	1942.9	1952.0
47.5°	2217.7	2218.6	2279.7	2371.7	2448.5	2453.7	2350.7	2231.9	2107.5	2062.6	2076.0
50°	2277.3	2280.1	2345.5	2447.6	2552.6	2598.8	2490.5	2363.6	2236.8	2186.2	2201.5
52.5°	2292.1	2297.3	2376.1	2495.8	2619.3	2707.5	2632.7	2490.0	2359.3	2311.2	2323.6
55°	2213.4	2223.8	2323.6	2492.0	2660.4	2779.1	2757.7	2618.4	2482.9	2433.2	2447.1
57.5°	2032.6	2047.3	2163.8	2383.6	2651.3	2828.3	2854.5	2741.5	2606.5	2558.7	2569.7
60°	1779.3	1796.9	1908.5	2148.5	2523.4	2846.4	2922.7	2861.2	2719.9	2673.7	2683.8
62.5°	1397.2	1420.1	1553.7	1835.1	2253.5	2762.0	2980.9	2969.4	2822.0	2764.3	2771.0
65°	896.4	920.7	1061.4	1393.9	1893.3	2503.4	2999.0	3074.9	2929.9	2849.3	2859.2
67.5°	540.5	551.4	621.0	844.8	1383.9	2113.7	2845.4	3191.7	3055.8	2955.6	2963.3
70°	345.8	352.1	393.5	496.1	782.3	1542.2	2464.7	3213.7	3208.5	3064.9	3063.9
72.5°	234.7	236.6	247.5	293.9	442.7	876.3	1817.9	2909.4	3303.9	3205.6	3190.3
75°	171.7	182.2	199.9	208.0	251.4	437.9	1041.8	2044.1	2784.4	2827.3	2723.3
77.5°	127.8	128.3	152.6	162.2	179.4	233.3	440.7	1141.0	1728.8	1815.1	1619.0
80°	108.2	102.6	102.1	130.7	135.0	145.4	197.0	394.0	619.2	375.5	283.8
82.5°	90.2	83.9	75.8	102.1	92.0	89.2	85.4	160.3	197.0	96.9	82.5
85°	62.9	60.1	57.2	66.8	52.5	44.8	41.0	74.9	83.0	41.0	36.3
87.5°	27.2	28.2	28.6	29.6	21.9	15.8	15.8	21.0	21.0	16.2	11.9
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)