

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: P960985

Luminaire Tested: **NAV-SB1D-827-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960985
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-SB1D-827-U-5MQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9501.7 lumens
Efficiency: N/A
Efficacy: 119.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

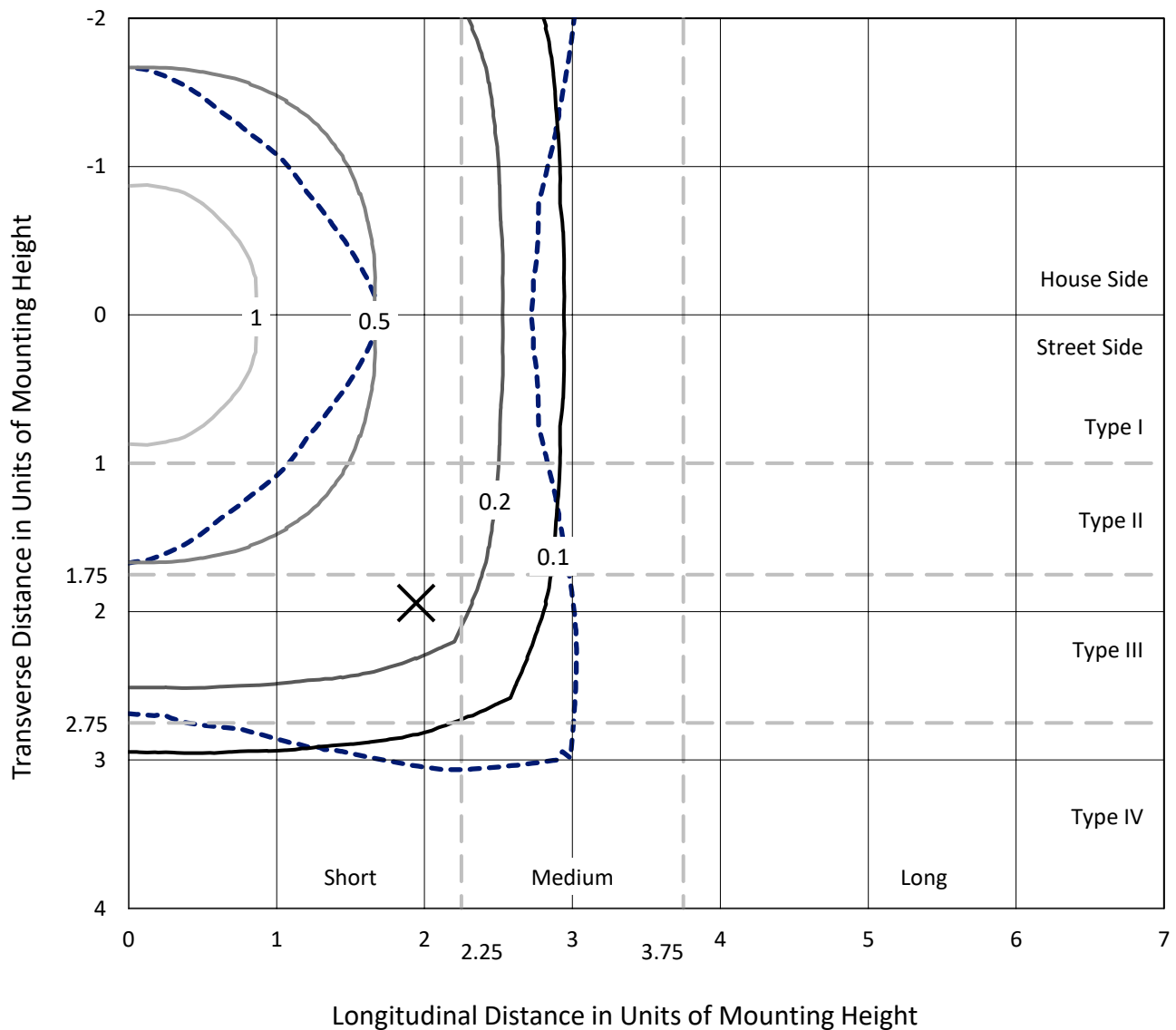
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

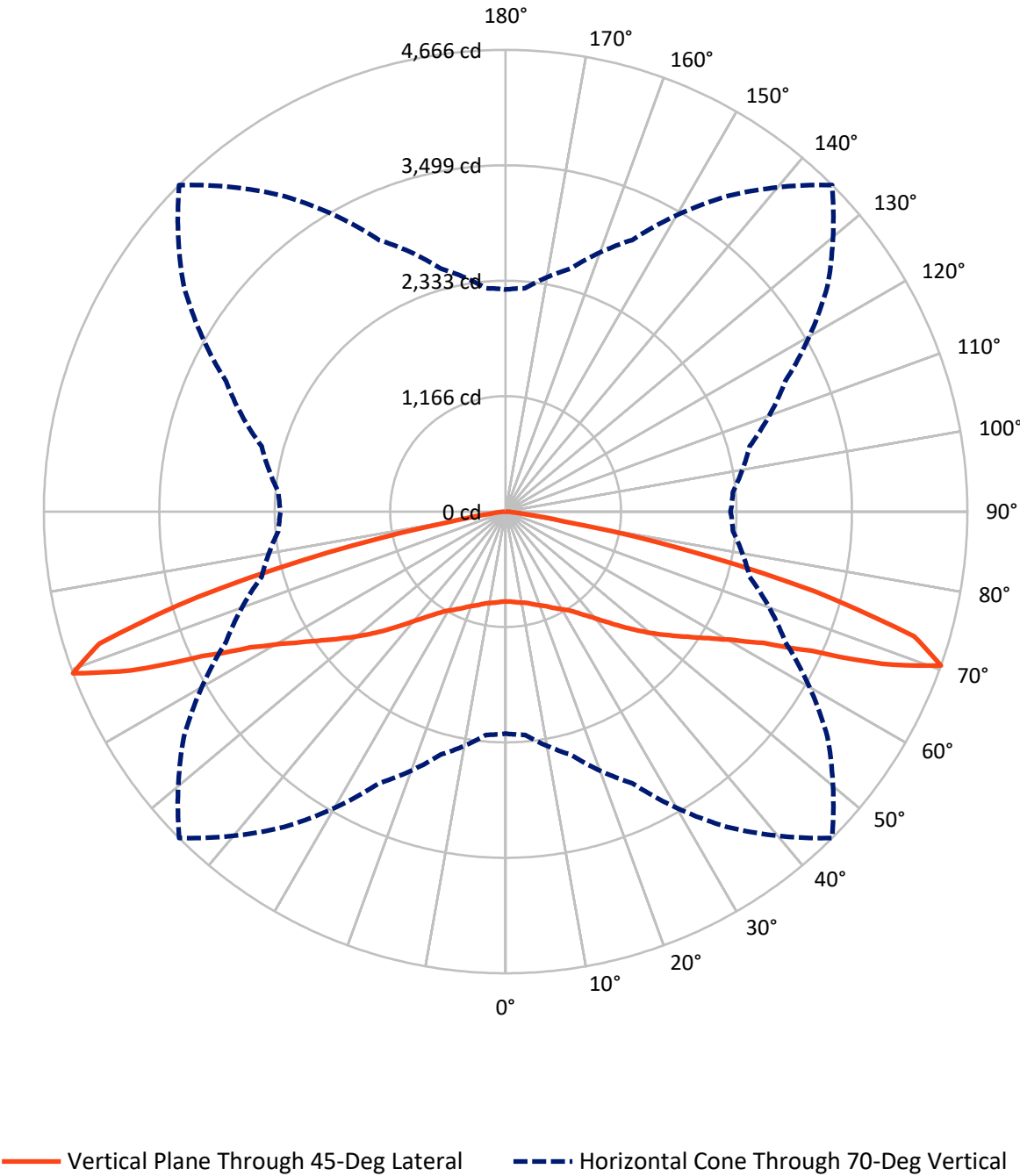
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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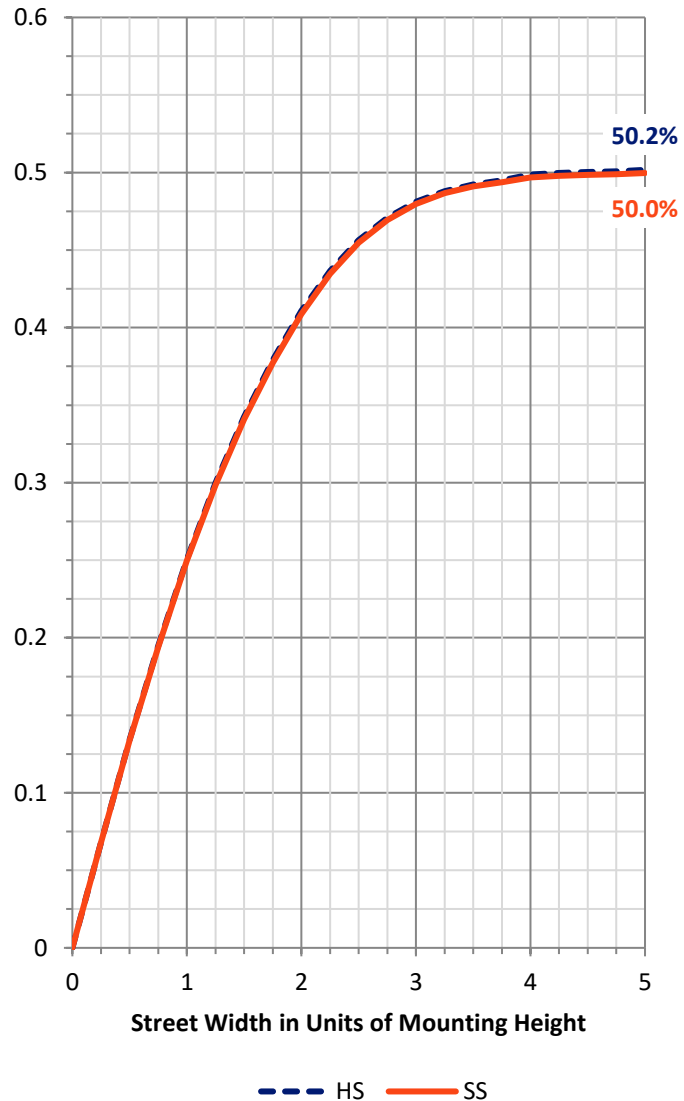
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4750.9	0.0	4750.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4750.9	0.0	4750.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	9501.7	0.0	9501.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.4	0.9
10°-20°	274.2	2.9
20°-30°	490.0	5.2
30°-40°	794.3	8.4
40°-50°	1293.8	13.6
50°-60°	1972.6	20.8
60°-70°	2934.6	30.9
70°-80°	1599.4	16.8
80°-90°	54.5	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°	9501.7	100.0
0°-180°	9501.7	100.0

Coefficient of Utilization



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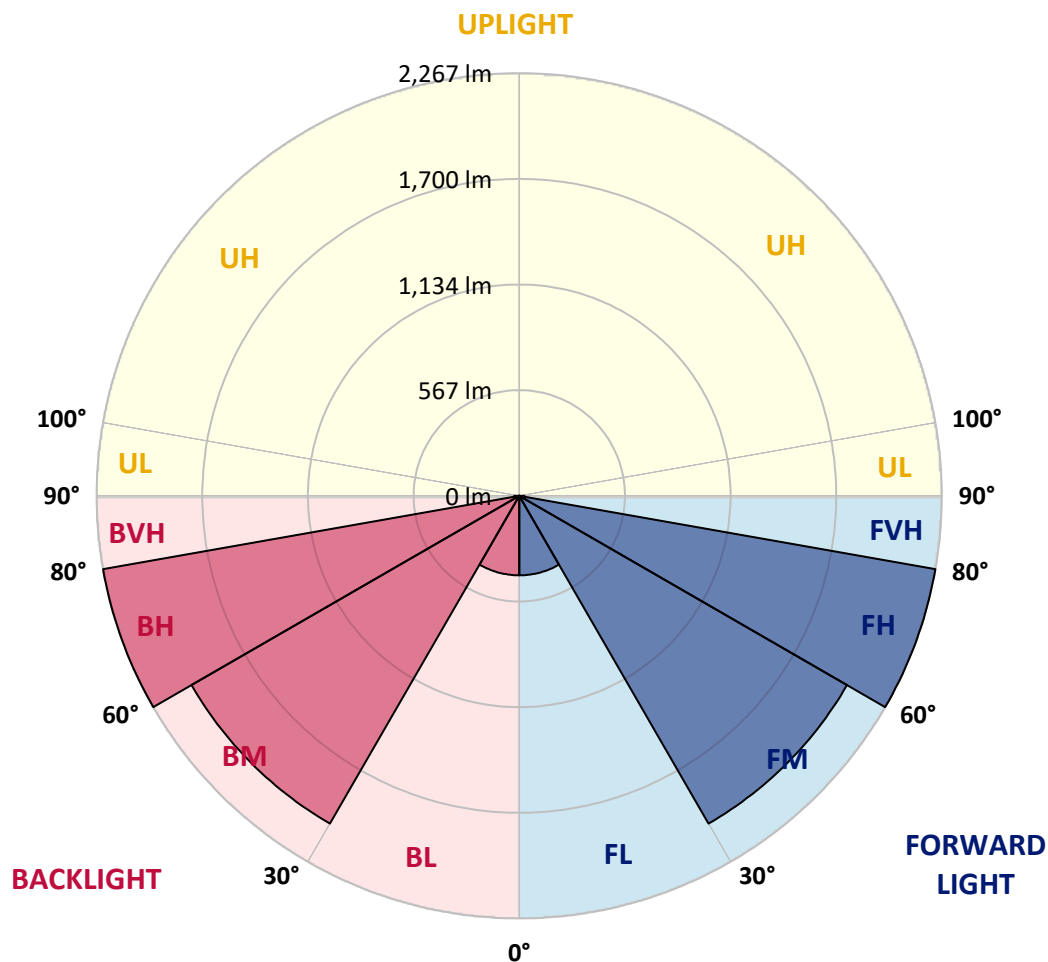
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	426.3	4.5			
FM	(30°-60°)	2030.3	21.4			
FH	(60°-80°)	2267.0	23.9			G2/5000
FVH	(80°-90°)	27.2	0.3			G1/100
BL	(0°-30°)	426.3	4.5	B1/500		
BM	(30°-60°)	2030.3	21.4	B2/2500		
BH	(60°-80°)	2267.0	23.9	B3/2500		G2/5000
BVH	(80°-90°)	27.2	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	910.2	910.2	910.2	910.2	910.2	910.2	910.2	910.2	910.2	910.2	910.2
2.5°	914.5	915.4	913.5	912.6	911.6	910.2	910.6	913.1	914.9	914.5	914.9
5°	922.1	923.0	921.6	921.2	919.2	918.7	918.7	921.2	922.6	921.6	922.1
7.5°	930.7	932.1	929.8	929.3	928.3	927.3	926.9	929.3	930.7	930.7	930.7
10°	938.8	940.2	938.3	936.8	935.9	935.9	935.0	936.8	939.3	938.8	938.8
12.5°	947.4	948.3	946.4	945.5	945.5	946.9	945.5	946.4	948.3	947.4	946.9
15°	957.9	958.4	957.9	959.3	961.7	966.5	962.2	961.2	962.2	959.8	959.8
17.5°	972.2	973.1	975.1	978.4	981.7	990.4	982.7	980.3	980.3	975.5	975.5
20°	989.8	991.3	994.1	999.9	1004.2	1012.3	1004.6	1001.3	999.9	993.6	993.6
22.5°	1008.4	1010.9	1015.2	1022.7	1030.3	1038.0	1030.3	1024.7	1020.4	1012.3	1011.8
25°	1029.9	1032.8	1039.5	1051.9	1062.3	1073.3	1064.3	1052.8	1044.2	1032.8	1032.3
27.5°	1060.5	1063.7	1071.8	1087.1	1100.5	1110.1	1101.5	1086.7	1074.7	1060.9	1060.5
30°	1103.4	1106.7	1116.2	1132.4	1141.5	1147.7	1142.1	1130.6	1116.2	1100.5	1100.5
32.5°	1158.7	1163.0	1173.5	1188.8	1190.6	1191.7	1189.7	1184.0	1173.5	1154.5	1154.9
35°	1228.9	1233.6	1245.5	1257.9	1256.0	1257.9	1255.0	1253.2	1245.5	1223.5	1223.5
37.5°	1314.7	1320.4	1332.8	1342.3	1337.6	1335.2	1335.7	1336.2	1331.9	1307.5	1307.5
40°	1414.4	1422.0	1431.1	1441.1	1432.9	1425.9	1430.6	1434.4	1430.6	1405.8	1405.8
42.5°	1517.0	1528.0	1537.5	1551.7	1545.1	1536.1	1542.7	1547.0	1538.9	1512.2	1514.1
45°	1631.0	1641.4	1653.8	1675.4	1670.5	1661.0	1670.5	1671.5	1657.6	1626.2	1629.5
47.5°	1748.8	1759.7	1778.4	1807.0	1805.0	1794.6	1807.0	1800.3	1782.7	1745.0	1742.6
50°	1860.4	1875.6	1904.2	1944.3	1948.2	1935.3	1952.0	1939.1	1909.6	1862.3	1861.4
52.5°	1965.3	1981.5	2026.9	2081.3	2095.1	2078.4	2100.8	2078.4	2034.0	1973.4	1967.7
55°	2075.5	2093.7	2147.6	2218.6	2246.3	2233.9	2254.9	2221.1	2158.0	2084.6	2074.6
57.5°	2205.3	2216.3	2280.6	2365.1	2411.8	2414.7	2424.2	2367.0	2290.7	2207.2	2195.8
60°	2346.0	2361.3	2431.4	2532.6	2606.5	2630.4	2620.3	2535.4	2446.7	2350.8	2335.6
62.5°	2526.3	2543.0	2627.0	2748.1	2865.1	2924.2	2885.1	2762.0	2652.3	2537.3	2517.3
65°	2675.7	2694.2	2845.9	3062.1	3274.8	3393.6	3295.3	3068.7	2871.2	2709.1	2682.3
67.5°	2567.3	2590.3	2828.3	3225.2	3754.2	4108.6	3772.3	3273.8	2887.0	2667.0	2634.1
70°	2243.9	2265.5	2543.0	3028.2	3889.3	4665.8	3970.3	3117.3	2552.1	2305.9	2273.0
72.5°	1489.7	1558.9	1839.9	2421.9	3472.8	4317.6	3507.1	2372.8	1706.8	1486.5	1438.3
75°	494.2	549.5	741.3	1255.5	2326.0	3229.0	2214.4	1111.0	587.2	422.6	399.7
77.5°	124.5	143.6	197.9	359.2	927.8	1838.4	835.3	293.4	159.8	111.6	99.7
80°	60.6	66.8	95.4	119.7	232.3	584.4	218.0	112.5	75.3	58.2	53.4
82.5°	33.4	33.8	53.9	67.8	86.3	151.2	89.7	65.8	43.5	35.3	35.3
85°	20.5	20.0	28.6	36.3	36.3	53.9	42.9	36.3	24.8	21.9	22.9
87.5°	8.1	8.1	10.5	11.5	10.0	13.8	11.0	11.9	9.5	9.0	9.5
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)