

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: P960863

Luminaire Tested: **NAV-SB1D-735-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960863
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1D-735-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3500K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10554.4 lumens
Efficiency: N/A
Efficacy: 132.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

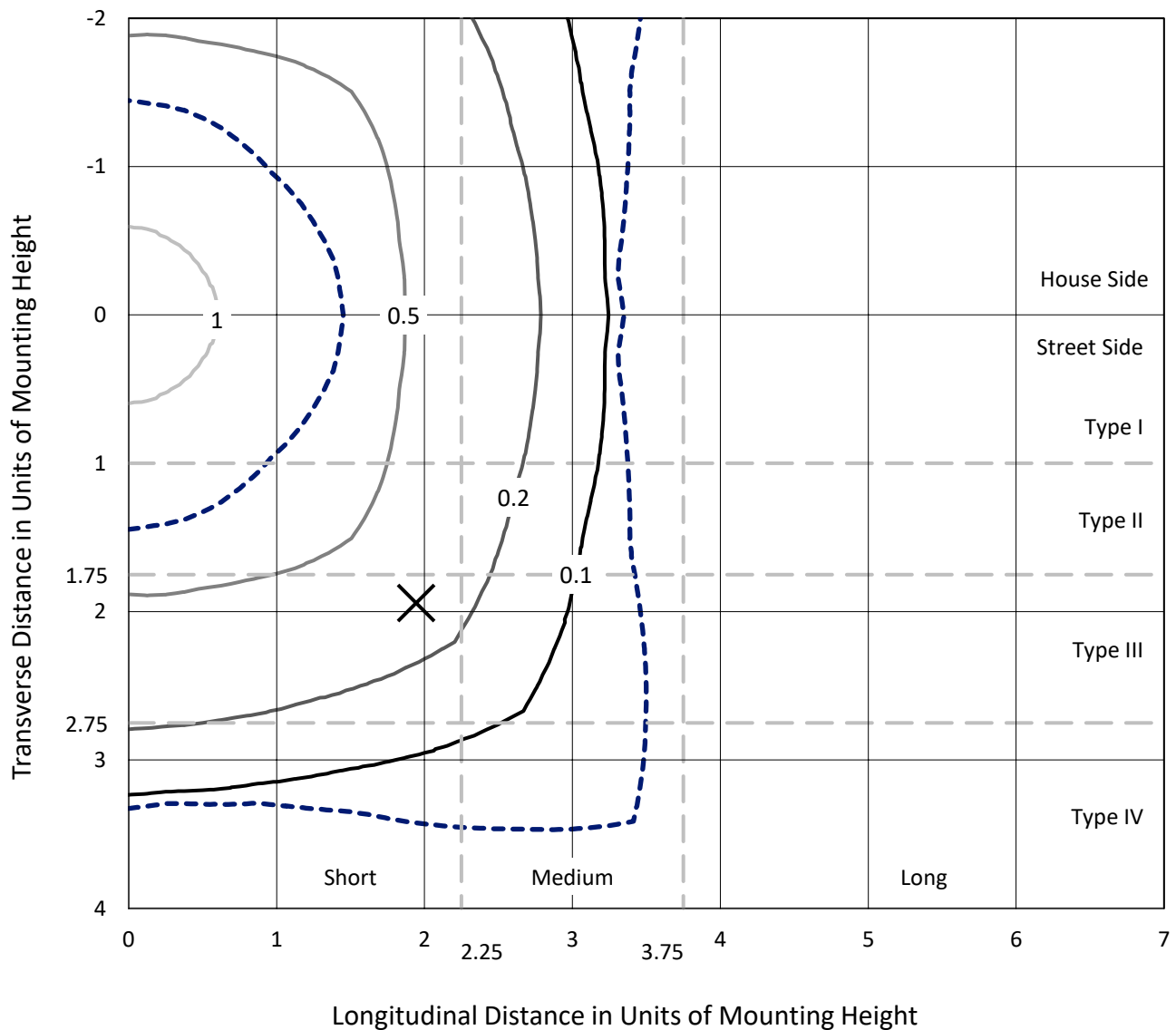
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

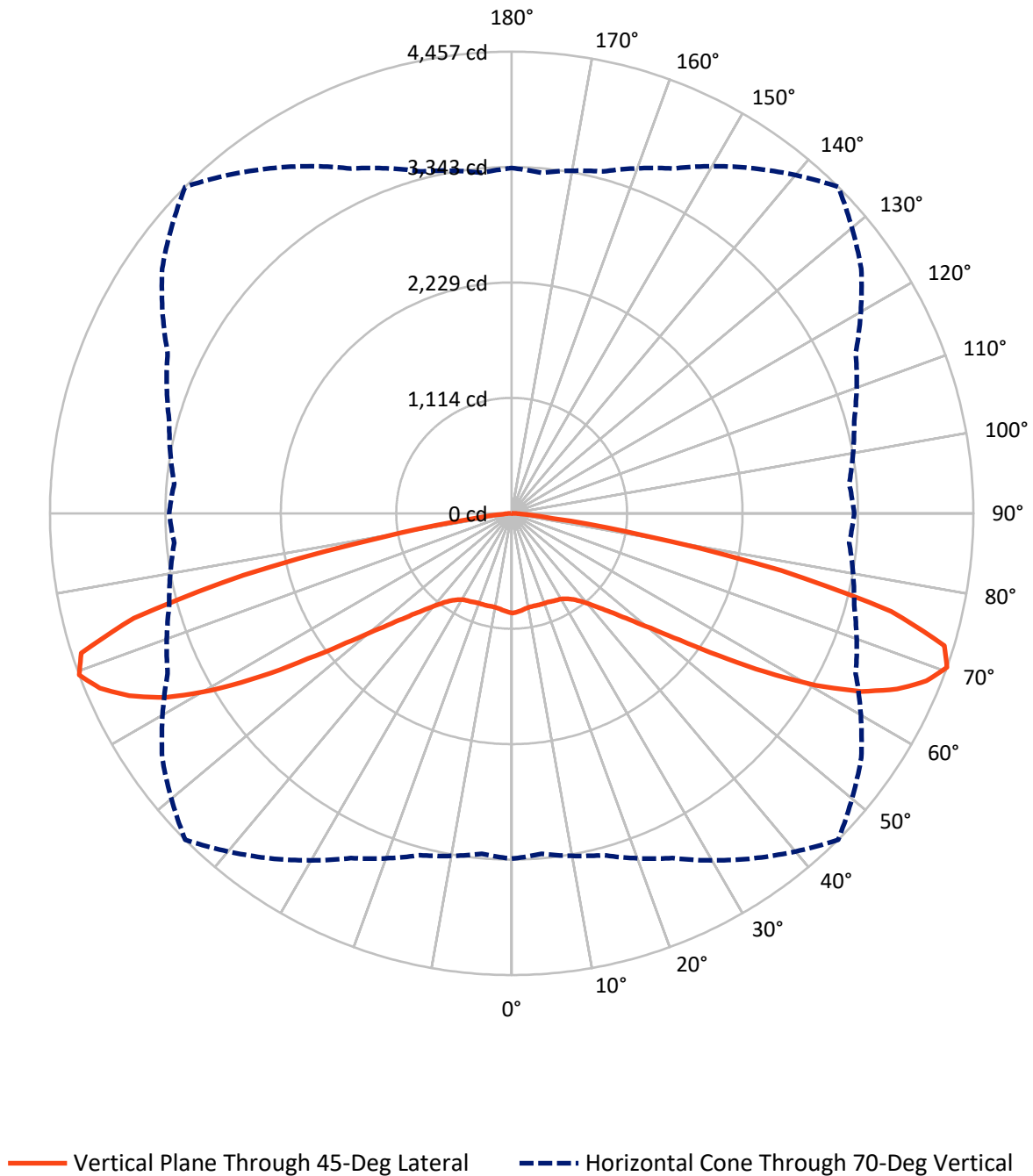
× Max cd
- - - 1/2 Max cd



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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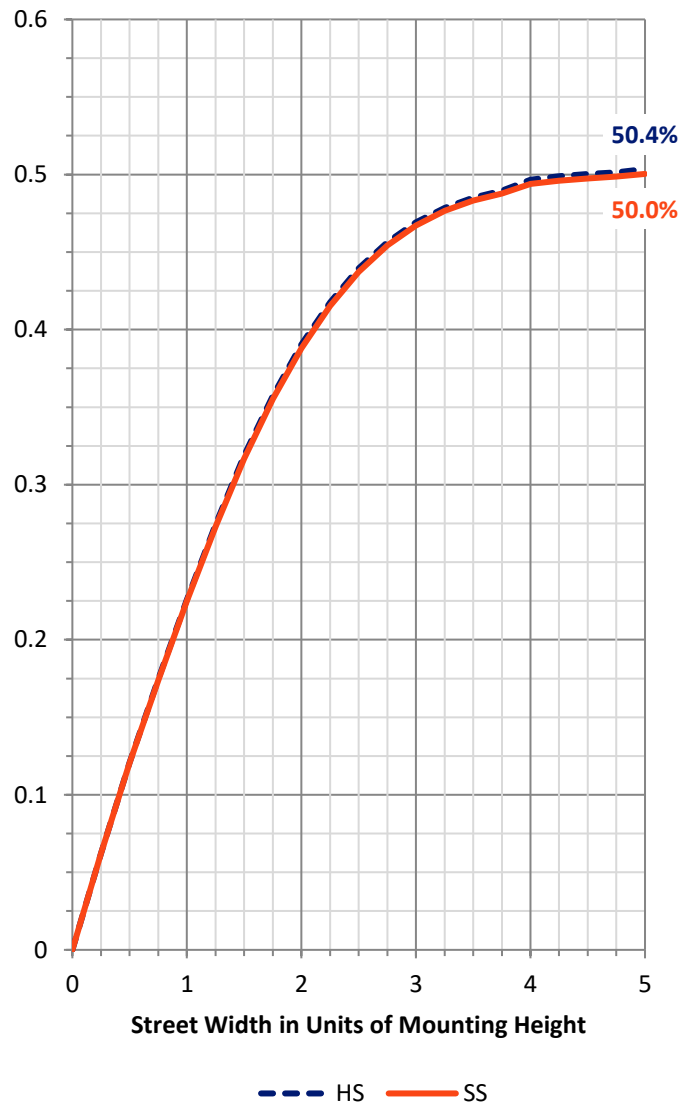
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5277.2	0.0	5277.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5277.2	0.0	5277.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	10554.4	0.0	10554.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.6	0.8
10°-20°	263.0	2.5
20°-30°	437.6	4.1
30°-40°	661.8	6.3
40°-50°	1099.8	10.4
50°-60°	2075.3	19.7
60°-70°	3504.2	33.2
70°-80°	2302.6	21.8
80°-90°	120.6	1.1
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°	10554.4	100.0
0°-180°	10554.4	100.0

Coefficient of Utilization



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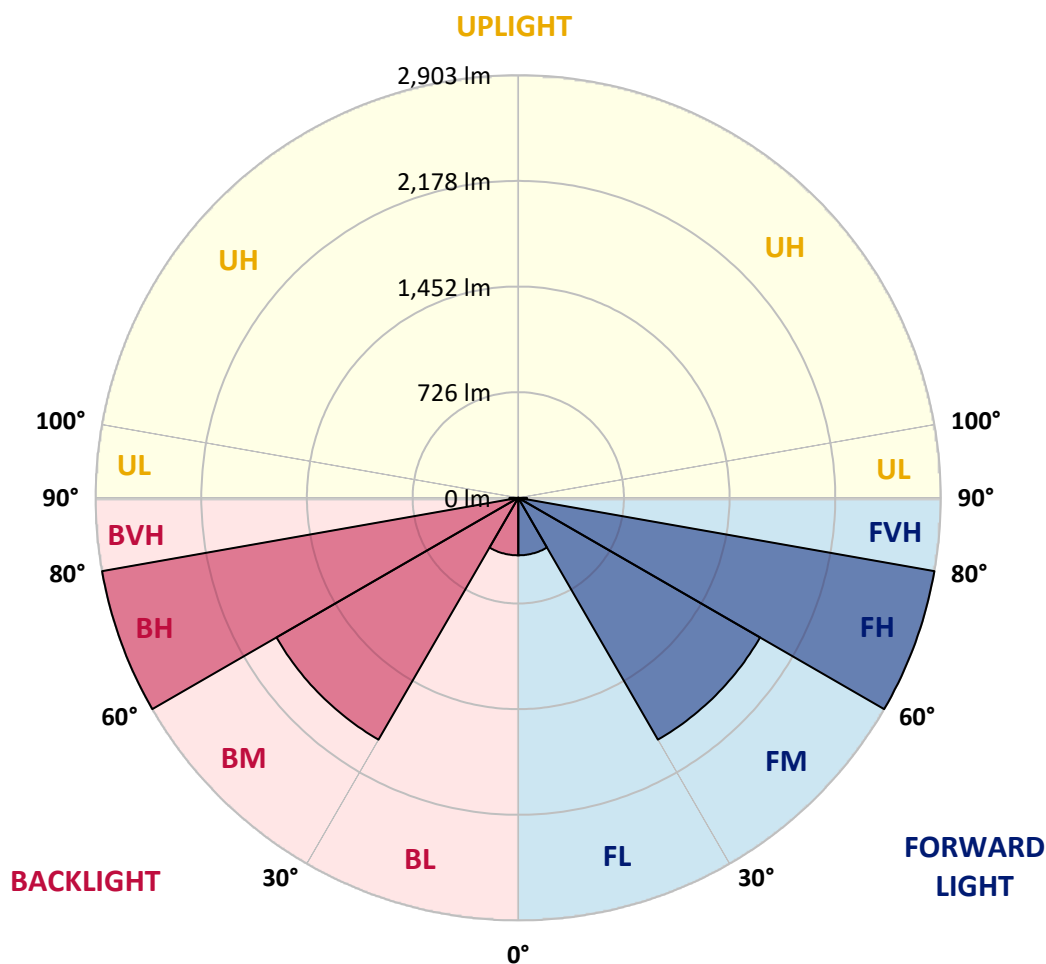
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	395.1	3.7			
FM	(30°-60°)	1918.4	18.2			
FH	(60°-80°)	2903.4	27.5			G2/5000
FVH	(80°-90°)	60.3	0.6			G1/100
BL	(0°-30°)	395.1	3.7	B1/500		
BM	(30°-60°)	1918.4	18.2	B2/2500		
BH	(60°-80°)	2903.4	27.5	B4/5000		G2/5000
BVH	(80°-90°)	60.3	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	962.8	962.8	962.8	962.8	962.8	962.8	962.8	962.8	962.8	962.8	962.8
2.5°	956.7	959.5	958.4	956.2	956.2	954.6	956.2	957.2	958.9	960.0	959.5
5°	944.1	946.3	945.8	944.1	944.6	943.0	944.1	945.8	946.9	947.4	947.4
7.5°	933.2	935.3	934.3	931.5	931.5	929.9	930.4	932.0	933.7	934.3	934.3
10°	930.4	932.6	929.3	925.0	923.3	921.1	921.7	923.3	926.6	928.2	928.2
12.5°	931.5	933.2	929.9	923.3	921.7	919.4	919.4	921.1	925.5	927.6	928.2
15°	934.8	936.4	931.5	924.3	922.7	921.1	920.6	922.7	927.6	931.5	932.0
17.5°	940.8	942.5	934.8	925.0	922.7	923.3	922.7	924.3	932.0	939.2	939.2
20°	946.3	947.4	937.0	925.0	922.7	923.3	922.7	926.0	935.9	945.8	946.3
22.5°	947.9	949.0	939.2	928.8	927.1	927.6	927.1	930.4	939.7	949.6	949.6
25°	948.5	950.2	942.5	934.3	937.0	938.1	937.0	937.6	944.6	953.5	952.9
27.5°	956.7	958.9	951.8	944.6	946.3	945.8	947.4	949.0	954.6	963.3	961.1
30°	973.7	975.4	969.3	962.3	961.1	957.2	962.3	967.7	973.7	981.4	979.8
32.5°	1001.7	1005.0	997.3	989.6	984.7	982.6	986.4	995.7	1003.9	1012.2	1008.9
35°	1048.4	1050.5	1043.4	1029.2	1020.4	1020.4	1023.7	1035.8	1048.9	1059.3	1055.4
37.5°	1114.2	1116.9	1104.3	1087.3	1074.1	1074.1	1078.5	1091.1	1110.9	1125.8	1120.2
40°	1194.3	1198.1	1182.2	1164.7	1152.0	1149.8	1155.4	1169.6	1188.3	1206.9	1200.9
42.5°	1290.8	1295.2	1274.4	1259.0	1249.2	1249.2	1251.8	1265.1	1282.1	1305.1	1303.5
45°	1414.3	1422.0	1393.4	1378.0	1368.7	1370.9	1372.6	1384.1	1399.4	1425.8	1424.6
47.5°	1561.3	1569.0	1538.8	1522.8	1521.2	1531.7	1525.1	1533.3	1541.5	1571.7	1562.9
50°	1728.0	1741.3	1720.4	1719.2	1722.6	1741.8	1726.4	1730.8	1721.5	1740.7	1729.2
52.5°	1932.1	1951.3	1947.5	1954.1	1990.9	2030.3	1995.3	1979.9	1944.7	1950.8	1930.5
55°	2179.6	2208.7	2214.1	2253.6	2337.0	2417.7	2343.0	2281.0	2206.4	2192.7	2171.4
57.5°	2461.0	2484.0	2510.3	2591.0	2746.8	2890.0	2746.8	2609.6	2492.3	2464.3	2444.5
60°	2763.8	2792.3	2817.5	2936.6	3168.1	3369.5	3163.8	2946.0	2790.7	2752.8	2719.9
62.5°	3089.1	3125.8	3143.5	3275.6	3545.6	3785.8	3549.4	3285.5	3113.2	3072.6	3039.7
65°	3401.3	3431.4	3451.2	3592.2	3850.0	4090.9	3867.5	3607.5	3430.4	3377.2	3350.8
67.5°	3546.6	3563.1	3611.4	3771.0	4043.1	4317.9	4089.2	3788.0	3590.0	3496.7	3497.8
70°	3333.8	3300.3	3416.6	3672.3	4066.2	4457.3	4118.9	3664.6	3422.1	3270.7	3306.9
72.5°	2576.1	2518.5	2720.5	3157.7	3802.9	4368.4	3829.2	3182.4	2846.1	2538.9	2615.1
75°	1401.7	1336.4	1615.1	2168.1	3032.6	3786.3	3102.3	2230.0	1798.3	1391.2	1481.7
77.5°	395.5	370.8	595.7	1048.9	1824.1	2658.4	1894.3	1071.9	706.6	419.1	465.8
80°	121.3	117.4	159.1	316.0	774.6	1273.3	744.5	319.8	202.4	127.8	135.0
82.5°	71.9	65.8	79.0	115.2	197.5	400.0	192.0	120.1	96.6	64.8	70.2
85°	41.1	38.4	46.6	56.0	66.4	85.1	55.5	57.1	51.6	34.5	36.2
87.5°	17.0	15.4	18.1	17.5	15.4	19.8	14.9	17.5	20.8	13.7	12.6
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)