

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: P959947

Luminaire Tested: **NAV-SB1B-827-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959947
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1B-827-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

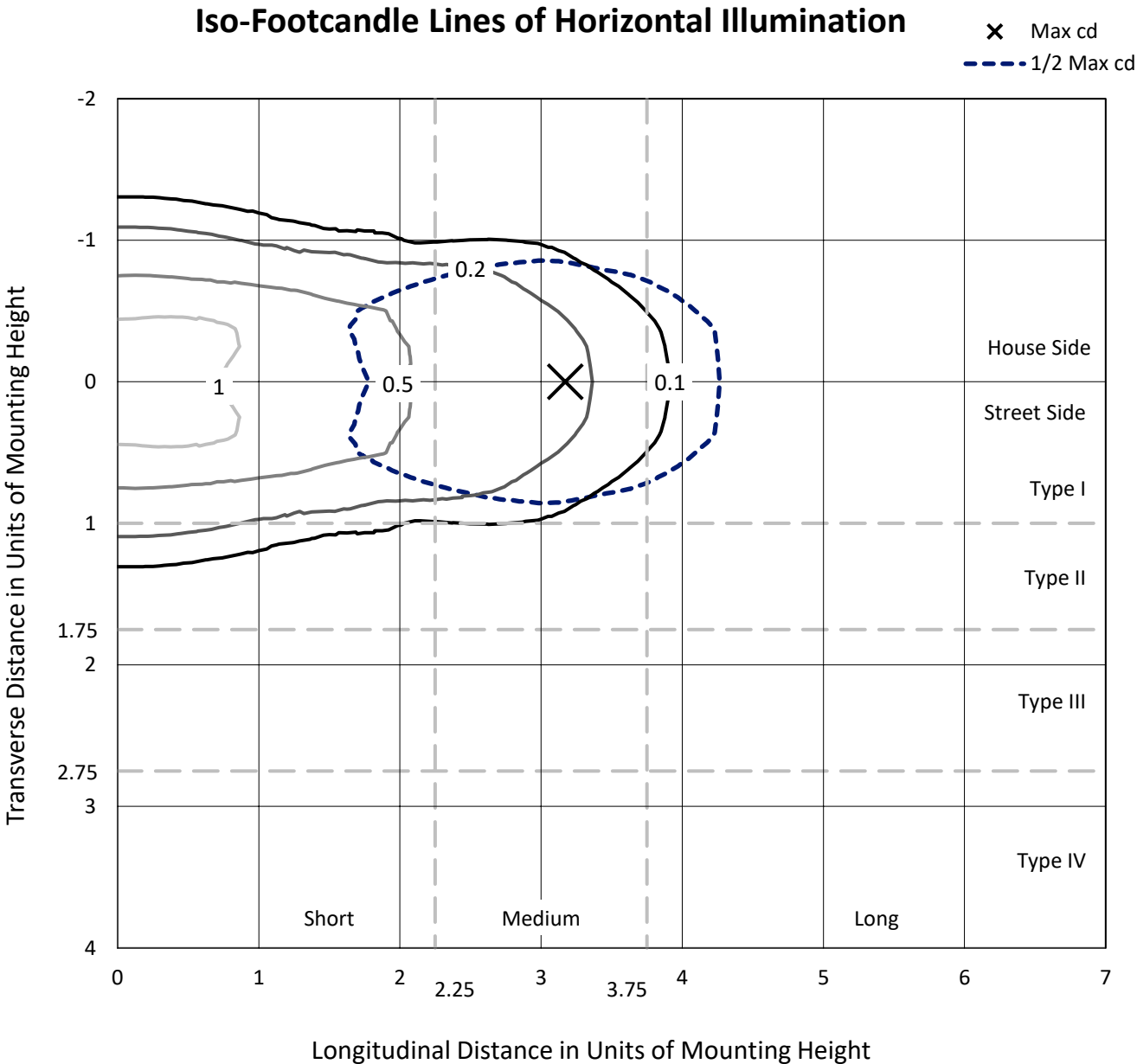
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4967.1 lumens
Efficiency: N/A
Efficacy: 124.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 39.8
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



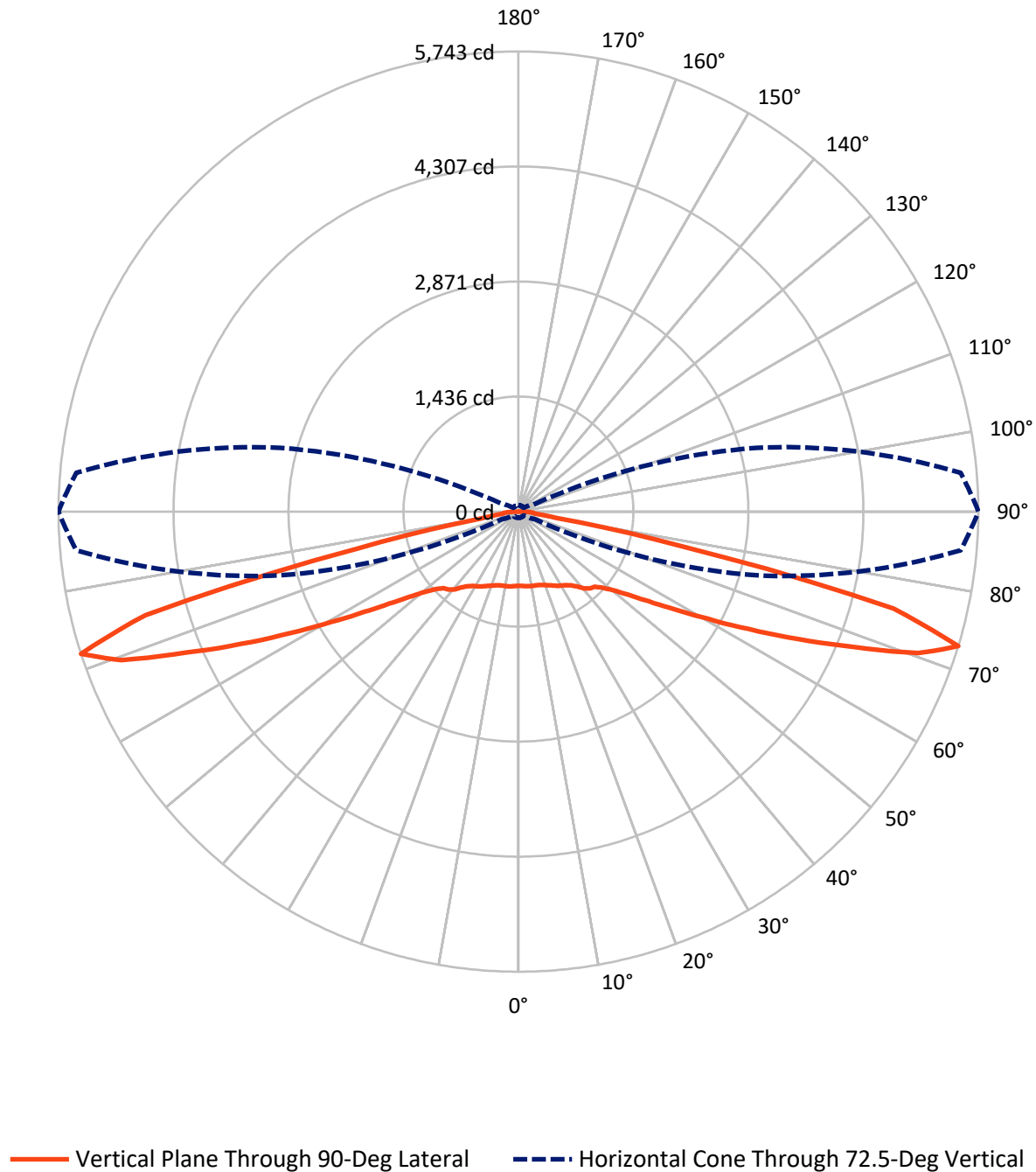
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Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
Type I - Short - N/A

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Luminous Intensity Polar Plot



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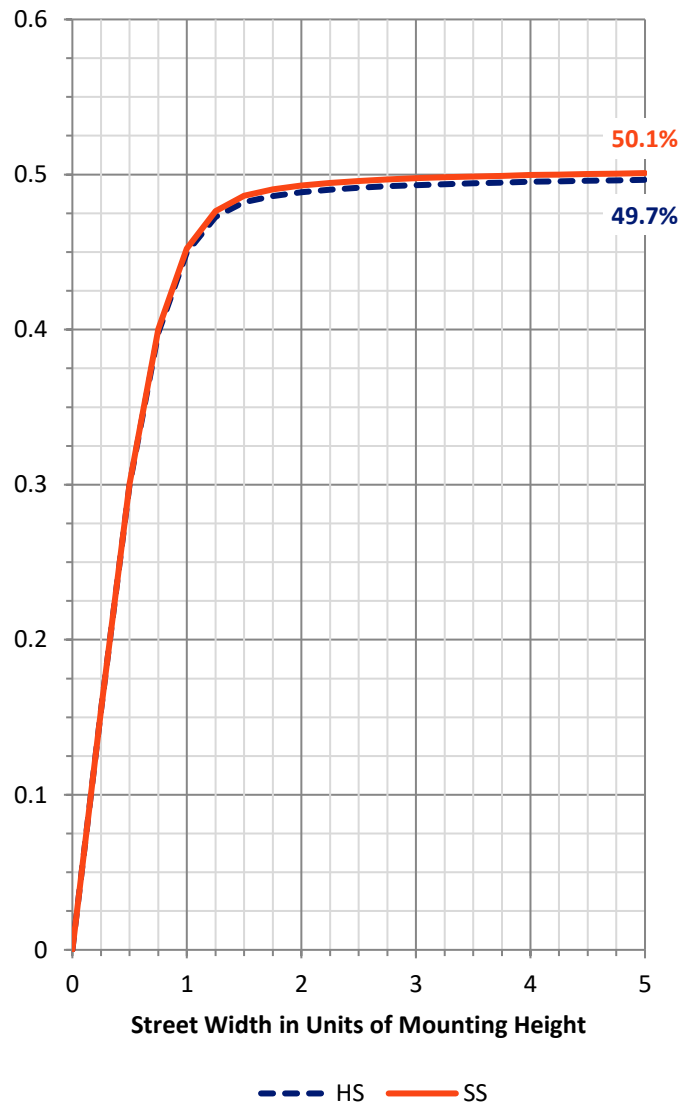
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2483.6	0.0	2483.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2483.6	0.0	2483.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	4967.1	0.0	4967.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.0	1.8
10°-20°	275.2	5.5
20°-30°	458.8	9.2
30°-40°	631.0	12.7
40°-50°	770.7	15.5
50°-60°	891.4	17.9
60°-70°	1062.8	21.4
70°-80°	741.8	14.9
80°-90°	45.5	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°	4967.1	100.0
0°-180°	4967.1	100.0

Coefficient of Utilization



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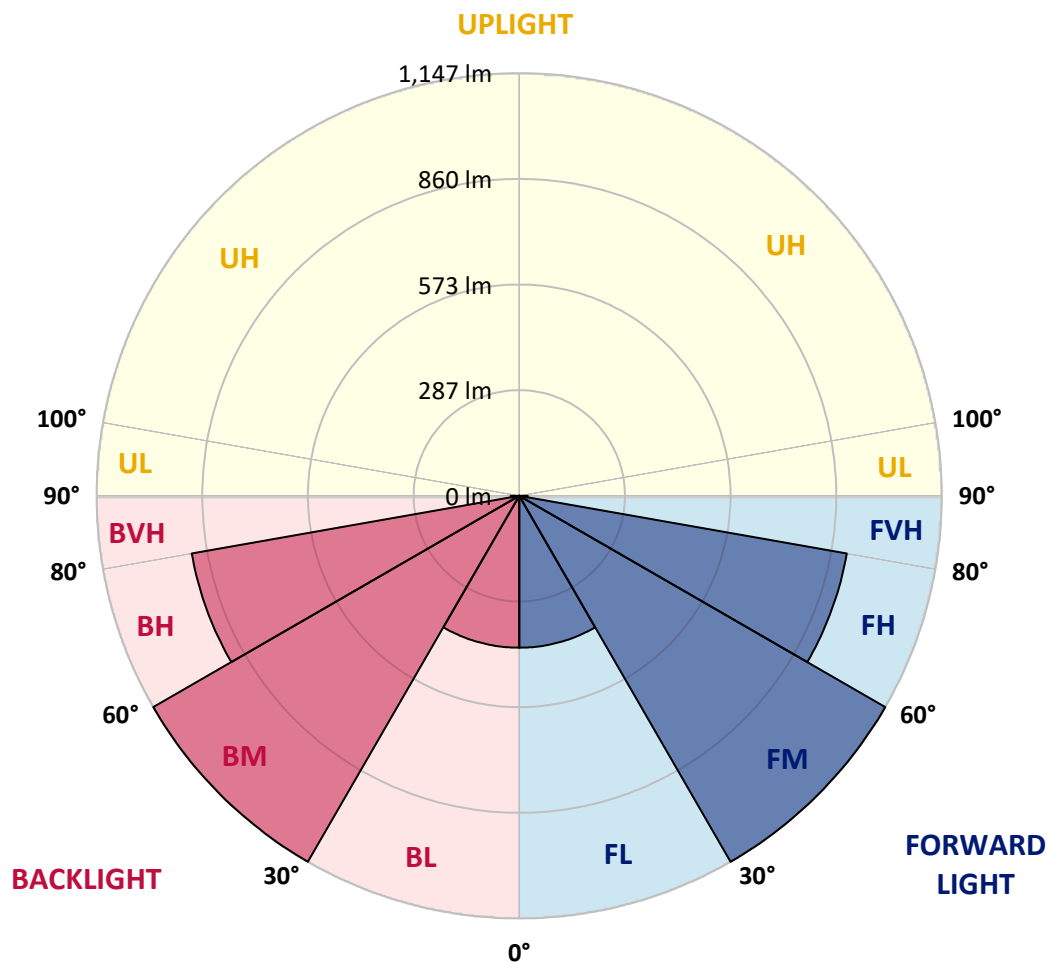
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	412.0	8.3			
FM	(30°-60°)	1146.5	23.1			
FH	(60°-80°)	902.3	18.2			G1/1800
FVH	(80°-90°)	22.8	0.5			G1/100
BL	(0°-30°)	412.0	8.3	B1/500		
BM	(30°-60°)	1146.5	23.1	B2/2500		
BH	(60°-80°)	902.3	18.2	B2/1000		G2/1000
BVH	(80°-90°)	22.8	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	928.1	928.1	928.1	928.1	928.1	928.1	928.1	928.1	928.1	928.1	928.1
2.5°	929.0	930.0	930.0	929.3	931.1	929.5	929.5	928.6	929.5	928.6	928.6
5°	933.7	935.0	935.5	935.3	937.7	936.3	936.3	935.3	935.5	934.8	934.8
7.5°	942.7	944.5	945.6	946.9	950.4	948.7	947.7	944.5	943.2	941.1	941.1
10°	945.6	947.7	951.1	958.0	966.0	966.2	963.0	955.1	949.0	944.2	943.5
12.5°	936.6	939.5	946.7	960.6	978.4	985.4	980.4	967.2	955.4	946.9	945.6
15°	925.3	928.4	939.2	960.3	986.5	1003.2	1002.7	985.2	966.2	952.9	950.9
17.5°	907.5	910.7	926.3	955.9	992.8	1020.3	1027.7	1009.7	983.1	965.3	962.5
20°	875.7	878.5	900.2	941.7	995.0	1038.5	1057.8	1041.9	1008.7	984.6	980.2
22.5°	834.1	838.7	864.0	917.1	989.9	1057.5	1092.1	1081.3	1038.5	1005.2	999.2
25°	789.9	794.6	824.2	886.9	977.0	1071.2	1132.7	1125.9	1072.3	1030.8	1022.4
27.5°	751.5	756.6	788.7	857.1	956.9	1076.6	1172.9	1176.3	1113.3	1059.1	1050.1
30°	721.5	726.2	760.6	833.1	931.1	1071.2	1208.0	1231.7	1155.0	1083.6	1070.7
32.5°	688.5	694.5	730.7	803.8	900.5	1058.6	1238.6	1291.7	1203.2	1110.1	1093.7
35°	646.8	652.3	690.3	763.7	860.3	1038.2	1264.2	1358.2	1272.4	1150.2	1132.0
37.5°	596.0	601.4	639.1	713.5	820.4	1009.7	1283.7	1433.2	1354.7	1208.0	1183.7
40°	545.1	550.1	585.5	657.5	772.6	973.3	1290.6	1506.5	1449.2	1287.4	1261.6
42.5°	498.4	502.9	535.4	602.4	719.1	926.8	1281.7	1570.4	1534.0	1342.9	1309.6
45°	455.4	459.3	488.1	550.6	663.4	870.3	1254.7	1639.1	1634.9	1382.5	1337.6
47.5°	406.3	410.2	440.0	500.5	607.7	804.1	1209.1	1706.6	1775.0	1472.2	1420.4
50°	346.3	349.7	380.4	442.7	549.9	733.6	1145.6	1759.7	1951.9	1608.2	1543.2
52.5°	275.3	279.0	308.8	371.2	481.2	657.8	1062.3	1794.3	2156.2	1806.7	1726.7
55°	204.9	207.5	233.4	289.4	396.3	571.5	957.8	1804.1	2387.9	2078.1	1978.0
57.5°	148.6	150.2	166.9	208.6	300.4	463.5	830.8	1778.7	2663.9	2426.0	2300.1
60°	120.3	121.0	125.9	144.4	208.8	341.6	677.4	1691.6	2963.2	2874.5	2715.8
62.5°	109.3	109.3	110.6	115.6	141.2	225.4	491.8	1511.1	3284.2	3441.2	3228.7
65°	101.7	101.7	102.2	104.6	111.4	143.6	310.5	1217.0	3554.8	4105.2	3836.5
67.5°	94.8	95.0	94.8	95.5	99.5	106.1	180.0	840.5	3700.6	4793.1	4503.0
70°	87.6	88.1	86.8	86.8	90.0	90.3	112.7	460.9	3579.6	5369.7	5293.4
72.5°	79.2	79.9	77.9	77.4	79.7	78.6	84.8	221.2	3073.3	5541.8	5742.5
75°	71.9	72.9	68.1	66.8	66.8	66.0	68.9	113.5	1994.6	4520.7	4835.3
77.5°	65.2	67.3	59.7	55.5	54.4	52.0	56.3	69.4	872.5	2122.5	2078.3
80°	53.8	56.8	49.1	44.1	42.2	39.6	44.4	48.6	259.5	492.8	472.0
82.5°	40.1	41.4	34.8	31.4	29.8	28.0	33.3	33.8	84.5	174.5	197.2
85°	25.6	26.1	21.4	18.4	17.7	16.9	21.1	18.4	32.2	128.3	186.3
87.5°	9.0	10.2	8.2	7.4	7.9	6.6	9.7	5.5	9.0	90.5	112.2
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)