

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: P959374

Luminaire Tested: **NAV-SB1A-760-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959374
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1A-760-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 5700K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5099.4 lumens
Efficiency: N/A
Efficacy: 165.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B2 - U0 - G1

Input Watts (W): 30.9
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

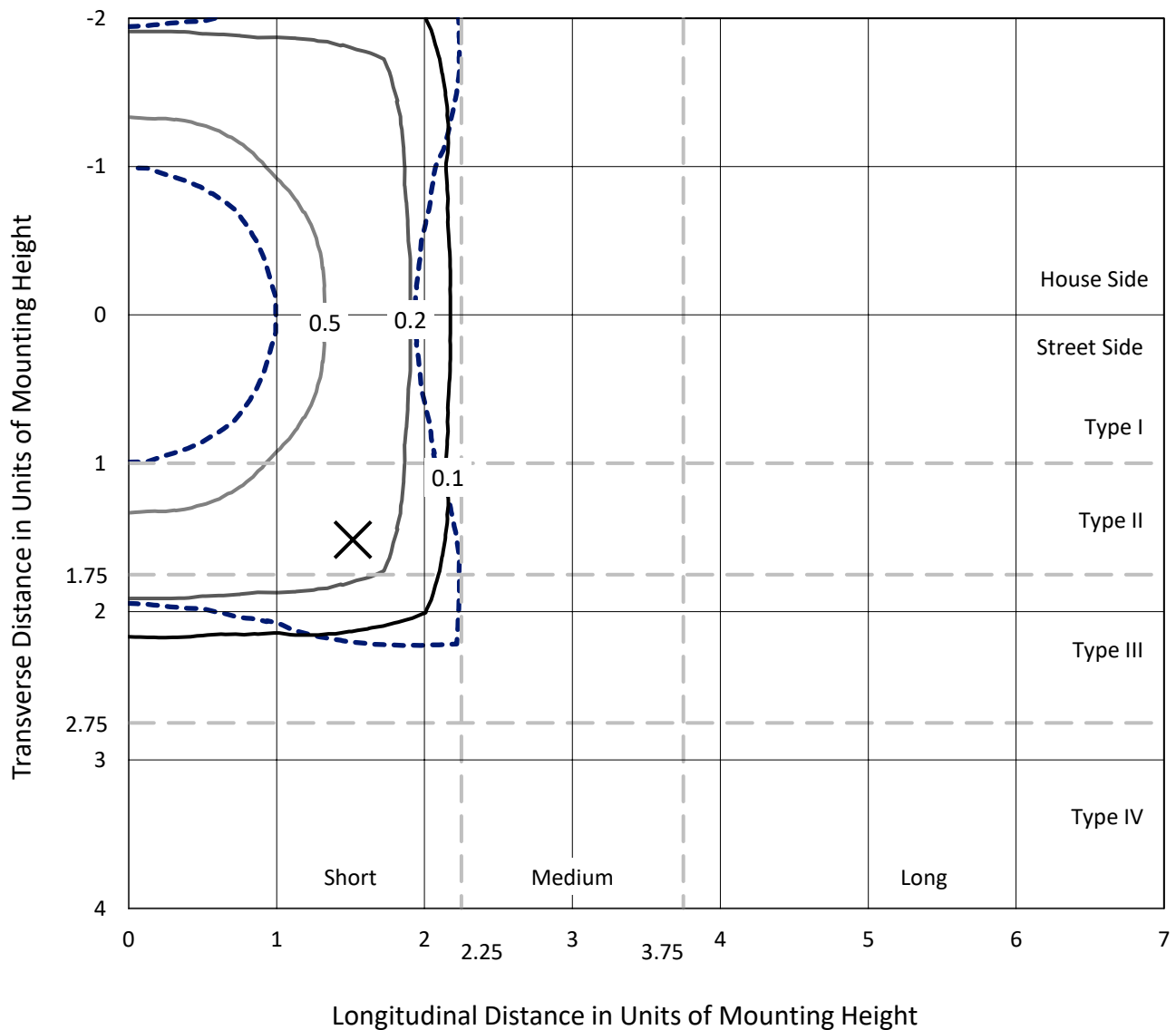


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Iso-Footcandle Lines of Horizontal Illumination

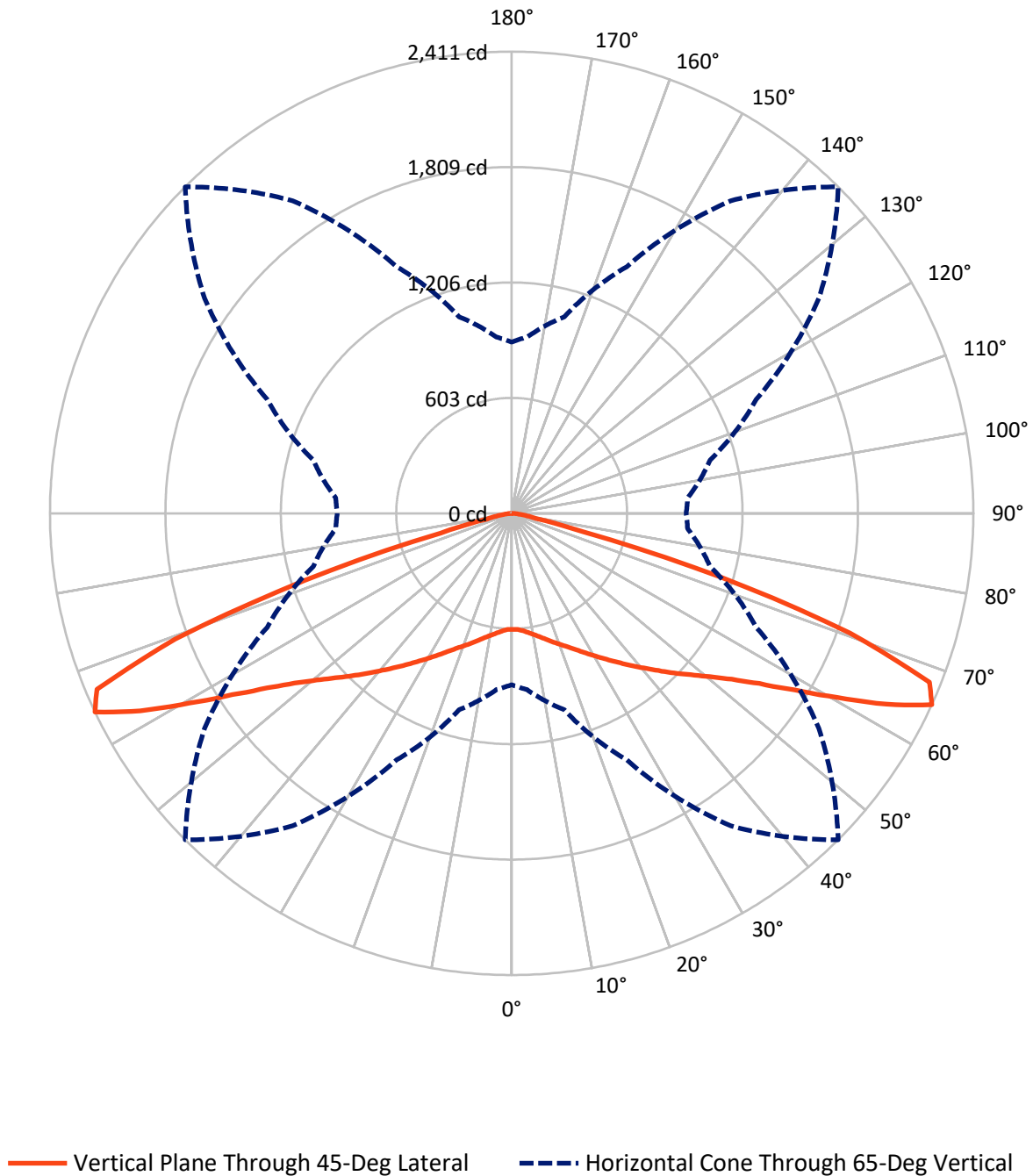
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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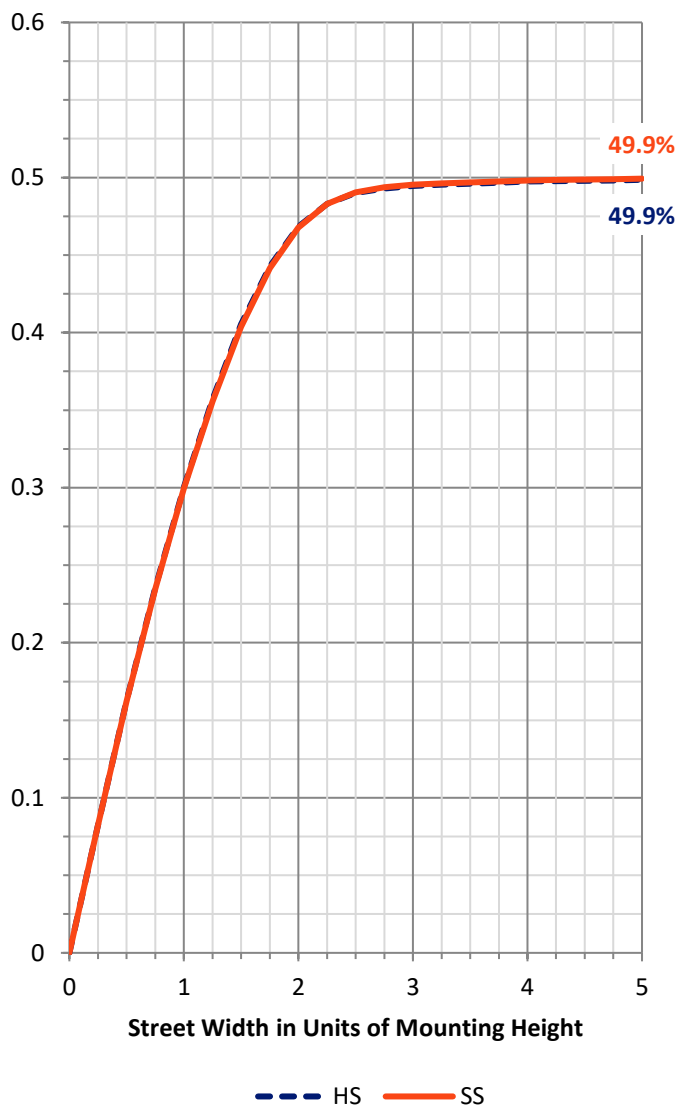
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2549.7	0.0	2549.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2549.7	0.0	2549.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	5099.4	0.0	5099.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.9	1.2
10°-20°	195.4	3.8
20°-30°	369.0	7.2
30°-40°	604.2	11.8
40°-50°	936.9	18.4
50°-60°	1383.9	27.1
60°-70°	1317.4	25.8
70°-80°	212.6	4.2
80°-90°	20.0	0.4
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°	5099.4	100.0
0°-180°	5099.4	100.0

Coefficient of Utilization



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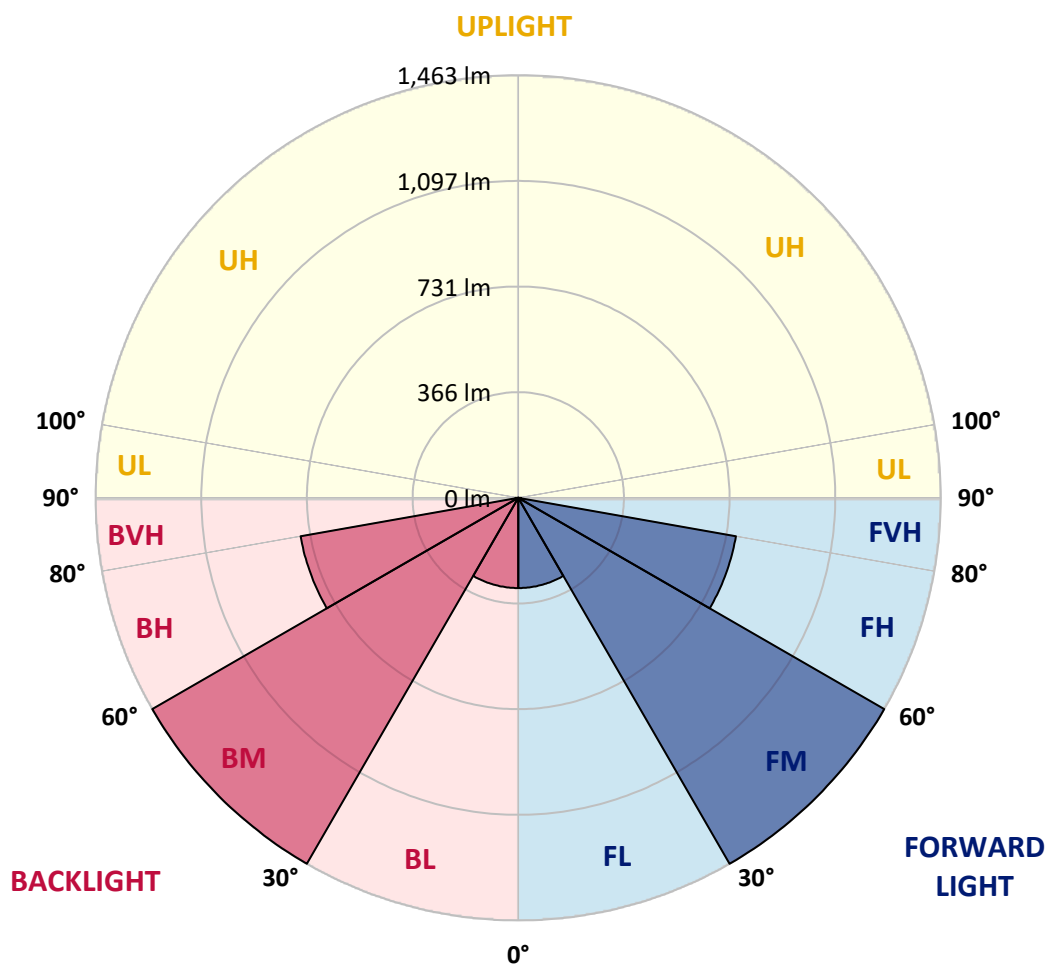
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	312.2	6.1			
FM	(30°-60°)	1462.5	28.7			
FH	(60°-80°)	765.0	15.0			G1/1800
FVH	(80°-90°)	10.0	0.2			G1/100
BL	(0°-30°)	312.2	6.1	B1/500		
BM	(30°-60°)	1462.5	28.7	B2/2500		
BH	(60°-80°)	765.0	15.0	B2/1000		G1/1800
BVH	(80°-90°)	10.0	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	606.9	606.9	606.9	606.9	606.9	606.9	606.9	606.9	606.9	606.9	606.9
2.5°	611.0	609.0	610.5	609.2	608.1	607.1	607.6	609.5	610.2	610.5	610.5
5°	619.2	617.4	618.2	618.2	616.3	615.8	616.1	617.4	618.9	618.9	618.9
7.5°	632.4	630.7	632.4	631.4	629.9	629.3	629.1	630.2	632.4	632.4	631.7
10°	648.6	646.6	647.6	647.1	645.2	644.5	644.2	645.8	647.8	647.6	647.1
12.5°	666.2	663.9	665.2	663.7	663.2	662.4	662.4	662.2	663.4	662.4	662.9
15°	685.9	684.4	684.9	683.9	684.7	684.2	682.1	681.1	681.6	680.1	680.3
17.5°	709.2	705.6	707.5	706.9	706.9	708.0	704.6	703.4	704.4	702.8	704.1
20°	736.1	732.5	733.3	732.3	730.9	732.0	727.9	728.9	729.7	728.7	730.9
22.5°	765.5	760.9	760.7	761.2	758.3	758.6	755.7	758.3	759.8	757.1	759.8
25°	795.7	790.8	794.2	792.8	789.2	790.1	788.0	790.6	791.8	788.2	792.3
27.5°	827.7	824.3	827.4	828.2	823.8	826.9	823.8	826.2	827.4	822.0	826.2
30°	865.0	861.7	864.5	866.5	861.4	866.3	863.8	865.3	865.5	859.2	862.9
32.5°	905.7	900.6	907.7	908.8	903.1	909.1	905.7	907.7	909.1	900.4	906.2
35°	955.3	948.9	957.1	955.8	951.0	955.8	952.7	955.8	958.9	948.4	954.8
37.5°	1008.8	1002.1	1010.9	1008.6	1004.0	1007.3	1005.5	1007.6	1012.4	1001.1	1008.1
40°	1067.6	1059.4	1071.2	1067.1	1062.8	1062.3	1063.3	1064.6	1071.0	1058.4	1062.5
42.5°	1130.6	1121.9	1139.6	1133.1	1127.0	1122.9	1126.3	1128.8	1135.0	1120.8	1128.3
45°	1202.5	1192.5	1215.5	1207.9	1198.1	1189.7	1195.0	1198.9	1207.9	1190.9	1199.7
47.5°	1281.8	1270.6	1295.1	1292.8	1276.9	1258.5	1270.8	1281.8	1288.4	1268.0	1274.9
50°	1359.4	1350.6	1382.8	1385.7	1366.2	1340.4	1357.5	1374.2	1376.0	1349.1	1352.4
52.5°	1432.0	1423.3	1470.2	1487.8	1470.4	1439.7	1457.9	1474.8	1461.1	1426.4	1427.4
55°	1490.0	1482.9	1542.5	1588.0	1594.0	1568.7	1579.3	1578.8	1534.3	1480.8	1482.7
57.5°	1504.2	1503.2	1578.3	1674.7	1736.2	1739.2	1718.0	1663.8	1567.8	1496.0	1491.4
60°	1440.2	1446.6	1549.9	1720.1	1883.8	1951.9	1860.1	1705.3	1529.7	1430.0	1418.2
62.5°	1248.8	1265.7	1390.3	1664.8	2003.1	2196.5	1973.8	1642.3	1373.2	1242.9	1235.2
65°	894.9	924.3	1062.0	1420.8	1992.3	2411.4	1957.5	1409.3	1072.3	922.1	911.1
67.5°	406.0	435.9	552.9	972.7	1731.8	2353.1	1727.7	983.0	580.6	437.5	431.1
70°	147.1	152.2	189.8	389.4	1106.8	1874.8	1154.1	392.3	201.8	162.3	160.2
72.5°	89.1	89.8	97.8	139.4	384.6	1138.3	400.9	144.0	99.7	88.6	90.1
75°	56.6	56.1	69.6	85.2	136.3	384.1	143.0	85.2	69.3	63.2	63.8
77.5°	40.7	41.9	49.9	63.8	86.0	130.3	84.5	60.9	49.9	40.9	41.7
80°	30.4	31.3	36.3	49.6	60.4	81.1	53.7	45.0	37.6	25.6	26.3
82.5°	22.0	22.0	23.8	36.1	36.8	43.8	29.2	31.8	24.8	18.1	18.1
85°	13.0	12.8	14.9	21.5	19.2	16.1	13.3	19.5	15.6	11.3	11.0
87.5°	4.6	4.8	4.6	6.1	5.1	4.3	4.1	5.3	4.3	3.8	3.6
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)