

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: P959792

Luminaire Tested: **NAV-SB1B-730-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959792
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-730-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5711.3 lumens
Efficiency: N/A
Efficacy: 143.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

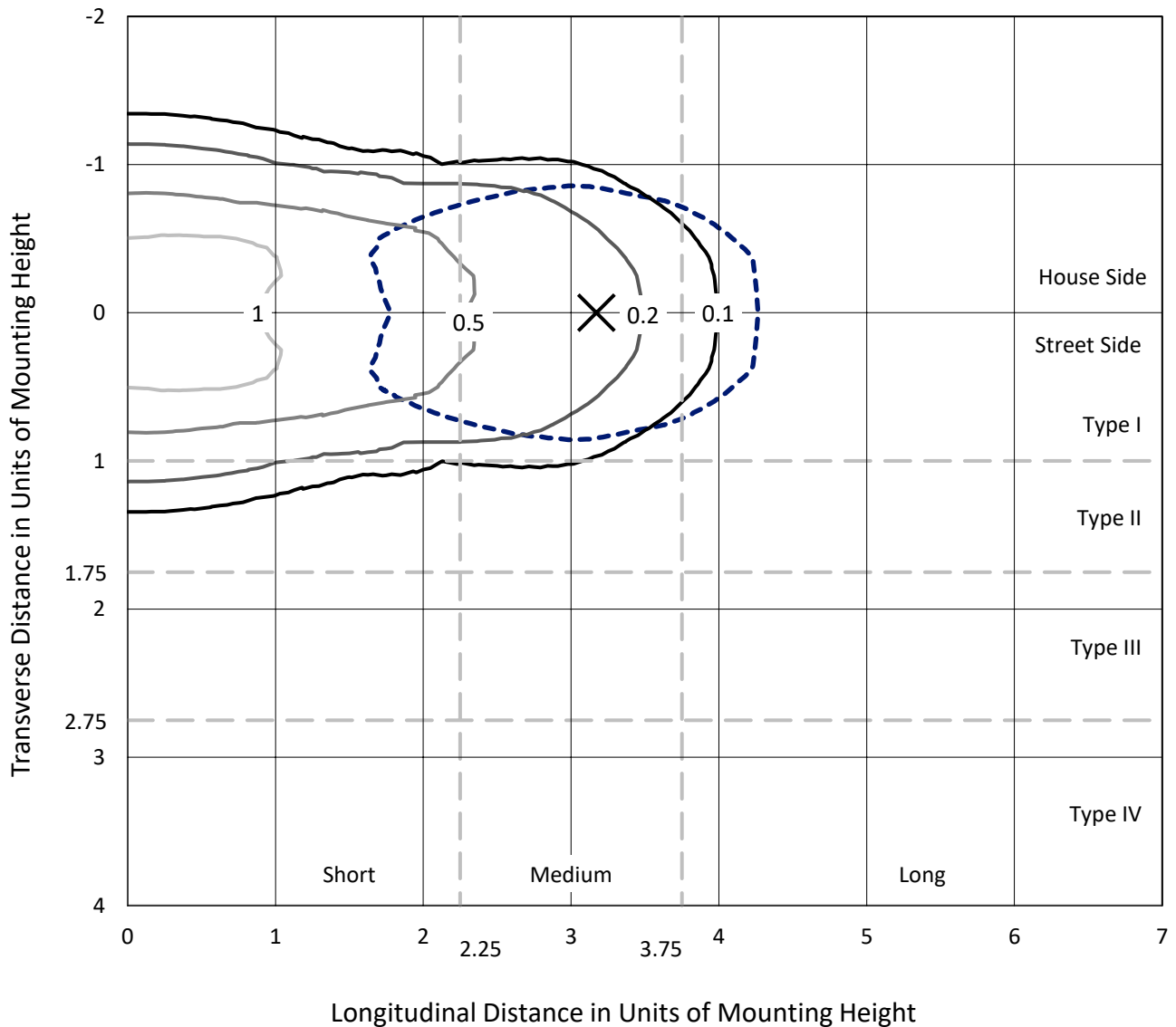
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

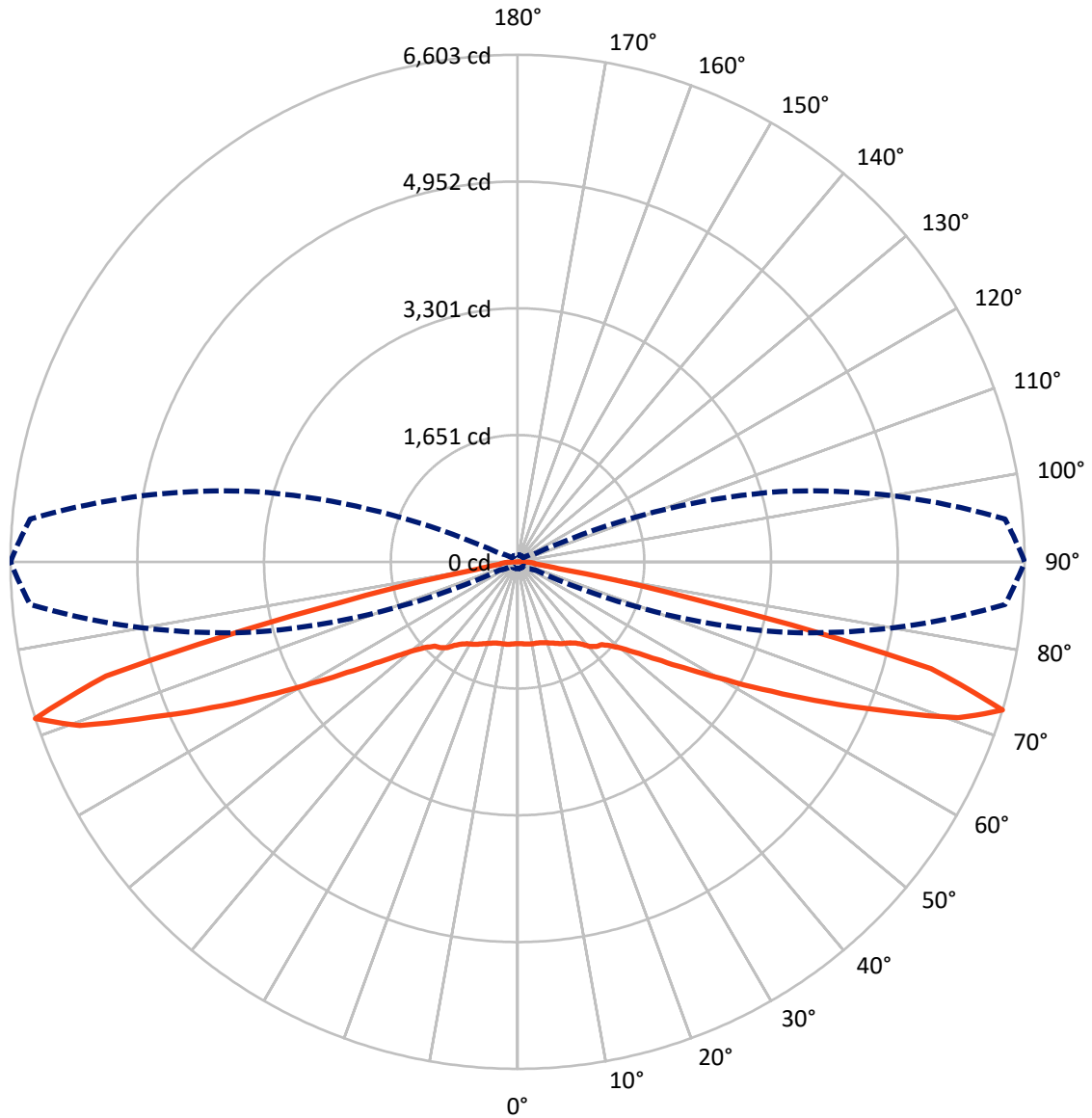
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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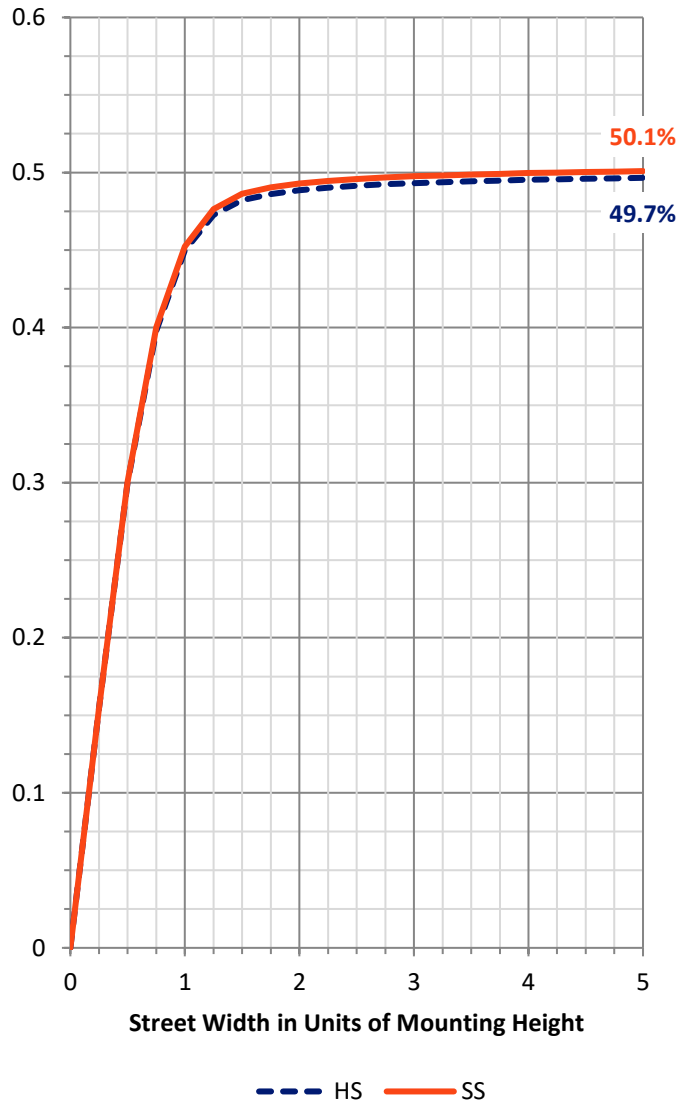
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2855.6	0.0	2855.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2855.6	0.0	2855.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	5711.3	0.0	5711.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.5	1.8
10°-20°	316.4	5.5
20°-30°	527.6	9.2
30°-40°	725.6	12.7
40°-50°	886.1	15.5
50°-60°	1024.9	17.9
60°-70°	1222.0	21.4
70°-80°	852.9	14.9
80°-90°	52.4	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°	5711.3	100.0
0°-180°	5711.3	100.0

Coefficient of Utilization



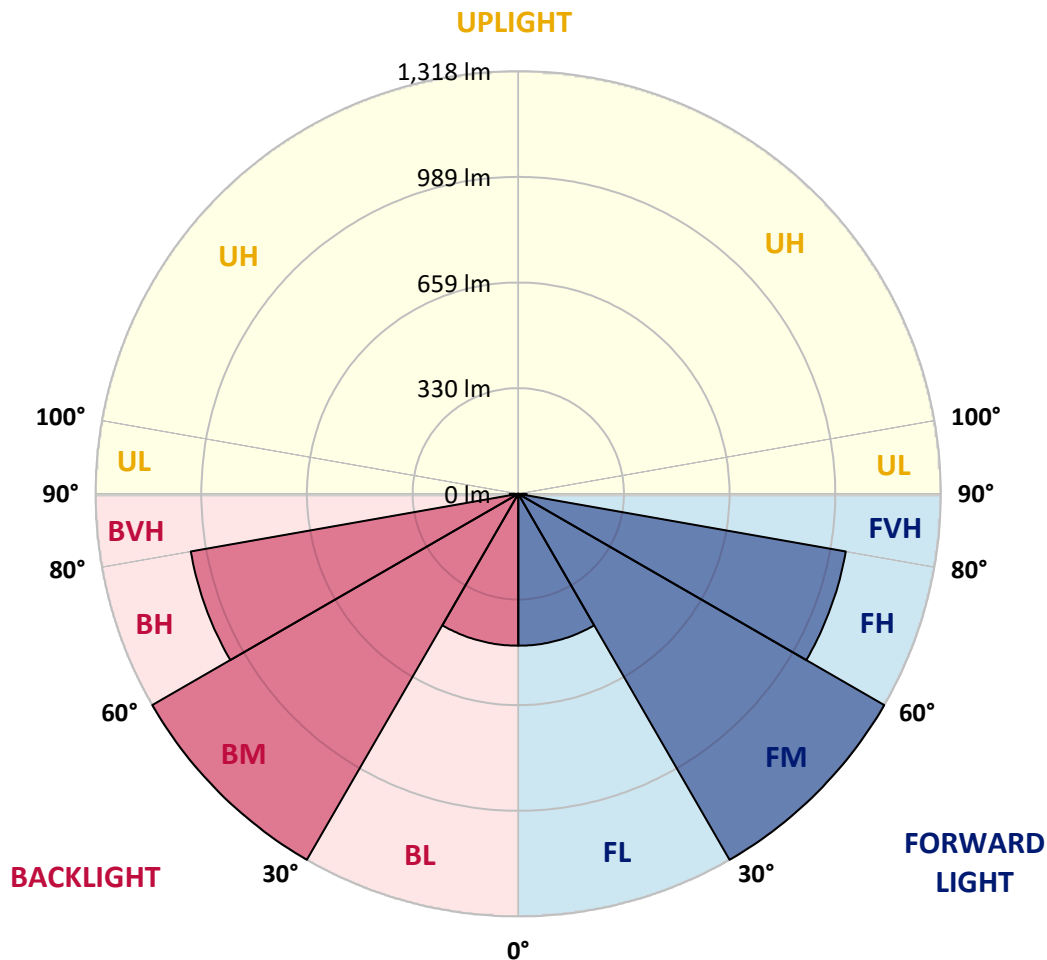
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	473.7	8.3			
FM (30°-60°)	1318.3	23.1			
FH (60°-80°)	1037.4	18.2			G1/1800
FVH (80°-90°)	26.2	0.5			G1/100
BL (0°-30°)	473.7	8.3	B1/500		
BM (30°-60°)	1318.3	23.1	B2/2500		
BH (60°-80°)	1037.4	18.2	B3/2500		G3/2500
BVH (80°-90°)	26.2	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 I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1067.2	1067.2	1067.2	1067.2	1067.2	1067.2	1067.2	1067.2	1067.2	1067.2	1067.2
2.5°	1068.2	1069.4	1069.4	1068.5	1070.5	1068.8	1068.8	1067.8	1068.8	1067.8	1067.8
5°	1073.6	1075.1	1075.7	1075.4	1078.1	1076.7	1076.7	1075.4	1075.7	1074.8	1074.8
7.5°	1083.9	1086.0	1087.2	1088.8	1092.8	1090.9	1089.7	1086.0	1084.6	1082.1	1082.1
10°	1087.2	1089.7	1093.7	1101.5	1110.6	1110.9	1107.3	1098.2	1091.2	1085.8	1084.9
12.5°	1077.0	1080.2	1088.4	1104.5	1124.9	1133.0	1127.3	1112.1	1098.5	1088.8	1087.2
15°	1063.8	1067.5	1079.9	1104.2	1134.3	1153.4	1152.8	1132.8	1110.9	1095.7	1093.4
17.5°	1043.6	1047.1	1065.1	1099.1	1141.5	1173.1	1181.6	1161.0	1130.4	1110.0	1106.7
20°	1006.9	1010.1	1035.0	1082.7	1144.0	1194.1	1216.3	1198.0	1159.8	1132.2	1127.0
22.5°	959.2	964.3	993.4	1054.4	1138.3	1216.0	1255.7	1243.2	1194.1	1155.9	1148.8
25°	908.2	913.6	947.6	1019.9	1123.4	1231.7	1302.5	1294.6	1233.0	1185.3	1175.6
27.5°	864.2	869.9	906.9	985.5	1100.3	1237.8	1348.6	1352.5	1280.0	1217.8	1207.4
30°	829.5	835.0	874.4	958.0	1070.5	1231.7	1389.0	1416.2	1328.0	1246.0	1231.1
32.5°	791.6	798.6	840.2	924.2	1035.4	1217.2	1424.1	1485.2	1383.5	1276.3	1257.6
35°	743.6	750.0	793.8	878.1	989.2	1193.8	1453.7	1561.7	1463.0	1322.5	1301.5
37.5°	685.4	691.5	734.8	820.4	943.4	1161.0	1476.1	1647.9	1557.7	1389.0	1361.0
40°	626.8	632.5	673.2	756.1	888.5	1119.1	1484.0	1732.2	1666.3	1480.3	1450.6
42.5°	573.1	578.2	615.5	692.7	826.9	1065.7	1473.6	1805.7	1763.8	1544.1	1505.8
45°	523.6	528.2	561.2	633.1	762.8	1000.7	1442.7	1884.7	1879.7	1589.6	1538.0
47.5°	467.1	471.7	505.9	575.5	698.7	924.6	1390.2	1962.4	2041.0	1692.8	1633.3
50°	398.2	402.2	437.4	509.0	632.2	843.5	1317.3	2023.4	2244.3	1849.1	1774.5
52.5°	316.6	320.8	355.2	426.8	553.3	756.4	1221.4	2063.1	2479.3	2077.4	1985.4
55°	235.5	238.6	268.3	332.7	455.6	657.1	1101.3	2074.3	2745.8	2389.4	2274.4
57.5°	170.9	172.7	191.9	239.7	345.4	533.0	955.2	2045.2	3062.9	2789.4	2644.7
60°	138.4	139.0	144.8	166.0	240.1	392.8	778.9	1945.0	3407.1	3305.1	3122.8
62.5°	125.7	125.7	127.2	132.9	162.4	259.2	565.5	1737.4	3776.2	3956.8	3712.4
65°	116.8	116.8	117.5	120.2	128.1	165.1	356.9	1399.3	4087.4	4720.2	4411.2
67.5°	109.0	109.3	109.0	109.9	114.4	122.0	207.0	966.5	4254.9	5511.2	5177.7
70°	100.8	101.4	99.8	99.8	103.5	103.8	129.6	529.9	4115.9	6174.1	6086.4
72.5°	91.0	91.9	89.6	89.0	91.6	90.4	97.5	254.4	3533.7	6372.0	6602.7
75°	82.5	83.7	78.3	76.8	76.8	75.8	79.2	130.5	2293.4	5198.0	5559.8
77.5°	74.9	77.4	68.6	63.8	62.5	59.8	64.7	79.8	1003.2	2440.4	2389.7
80°	61.9	65.3	56.5	50.7	48.6	45.5	50.9	55.9	298.4	566.7	542.7
82.5°	46.1	47.7	40.1	36.1	34.3	32.2	38.2	38.8	97.2	200.6	226.7
85°	29.4	30.0	24.6	21.2	20.3	19.5	24.3	21.2	37.0	147.5	214.3
87.5°	10.4	11.8	9.4	8.5	9.1	7.6	11.3	6.4	10.4	104.1	129.0
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)