

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: P961886

Luminaire Tested: **NAV-SB2B-730-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961886
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-SB2B-730-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11675.8 lumens
Efficiency: N/A
Efficacy: 158.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

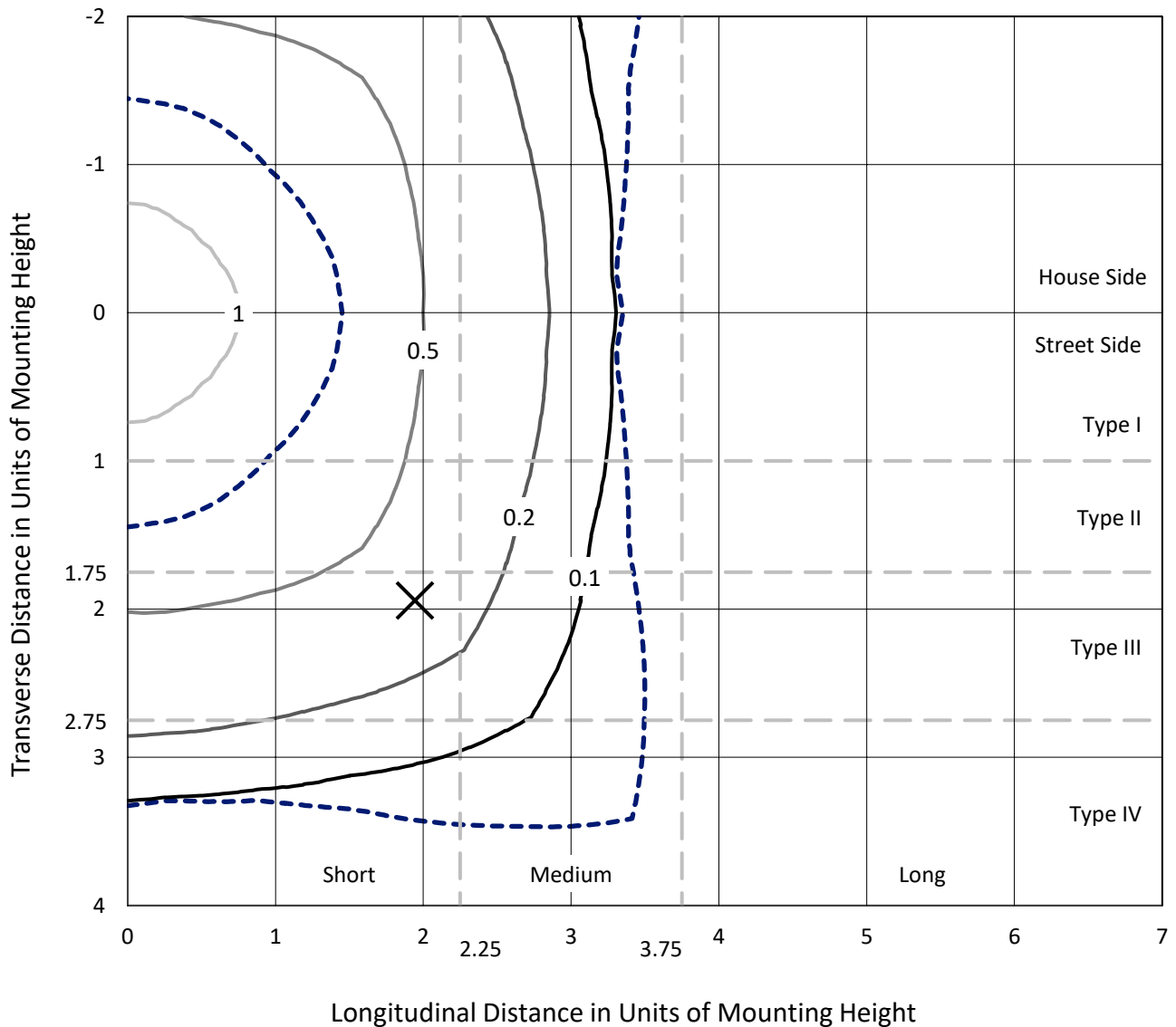
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

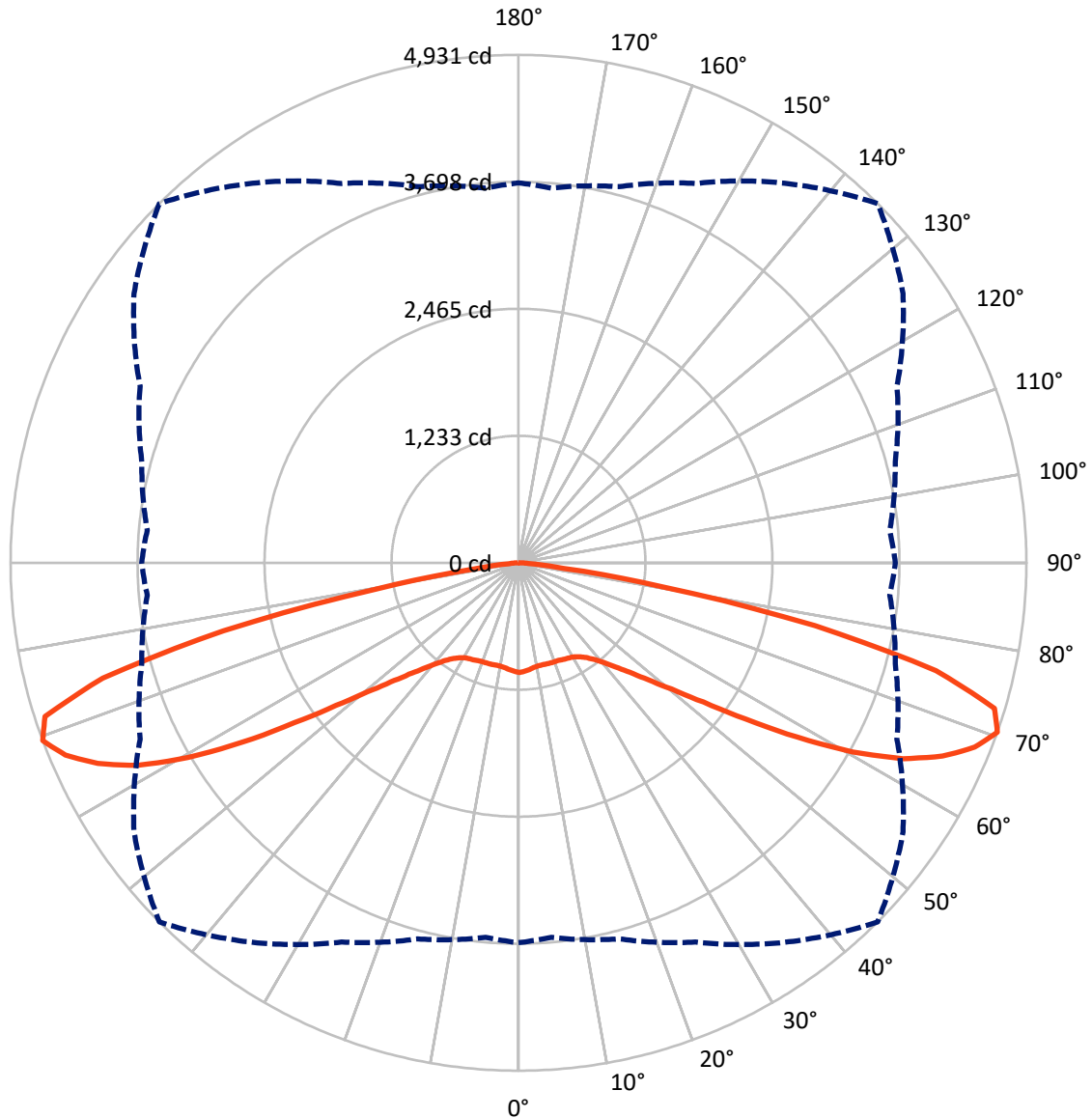
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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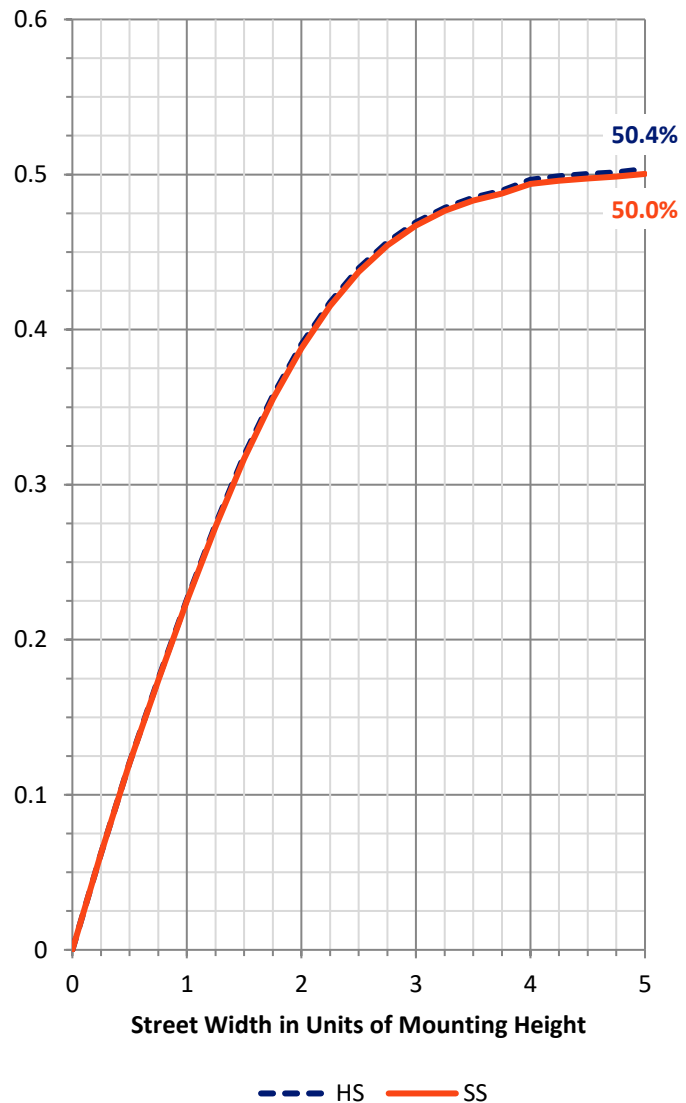
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5837.9	0.0	5837.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5837.9	0.0	5837.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	11675.8	0.0	11675.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.1	0.8
10°-20°	290.9	2.5
20°-30°	484.1	4.1
30°-40°	732.1	6.3
40°-50°	1216.6	10.4
50°-60°	2295.7	19.7
60°-70°	3876.5	33.2
70°-80°	2547.2	21.8
80°-90°	133.4	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°	11675.8	100.0
0°-180°	11675.8	100.0

Coefficient of Utilization



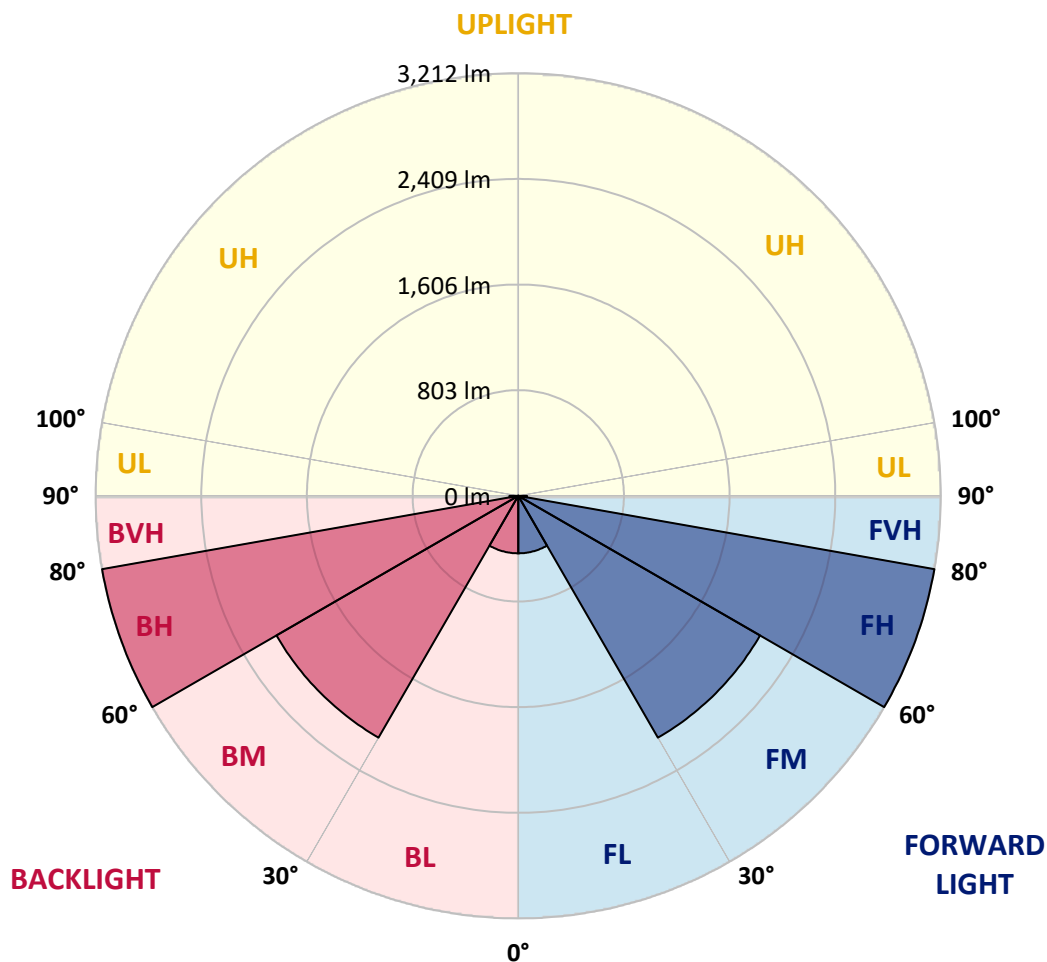
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	437.1	3.7			
FM (30°-60°)	2122.3	18.2			
FH (60°-80°)	3211.8	27.5			G2/5000
FVH (80°-90°)	66.7	0.6			G1/100
BL (0°-30°)	437.1	3.7	B1/500		
BM (30°-60°)	2122.3	18.2	B2/2500		
BH (60°-80°)	3211.8	27.5	B4/5000		G2/5000
BVH (80°-90°)	66.7	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°	1065.1	1065.1	1065.1	1065.1	1065.1	1065.1	1065.1	1065.1	1065.1	1065.1	1065.1
2.5°	1058.4	1061.4	1060.3	1057.8	1057.8	1056.0	1057.8	1059.0	1060.8	1062.0	1061.4
5°	1044.5	1046.8	1046.2	1044.5	1045.1	1043.2	1044.5	1046.2	1047.4	1048.1	1048.1
7.5°	1032.3	1034.7	1033.5	1030.4	1030.4	1028.7	1029.3	1031.0	1032.9	1033.5	1033.5
10°	1029.3	1031.7	1028.1	1023.2	1021.4	1019.0	1019.6	1021.4	1025.0	1026.8	1026.8
12.5°	1030.4	1032.3	1028.7	1021.4	1019.6	1017.1	1017.1	1019.0	1023.8	1026.2	1026.8
15°	1034.1	1036.0	1030.4	1022.5	1020.8	1019.0	1018.3	1020.8	1026.2	1030.4	1031.0
17.5°	1040.8	1042.6	1034.1	1023.2	1020.8	1021.4	1020.8	1022.5	1031.0	1038.9	1038.9
20°	1046.8	1048.1	1036.6	1023.2	1020.8	1021.4	1020.8	1024.4	1035.4	1046.2	1046.8
22.5°	1048.7	1049.9	1038.9	1027.5	1025.6	1026.2	1025.6	1029.3	1039.6	1050.5	1050.5
25°	1049.3	1051.1	1042.6	1033.5	1036.6	1037.7	1036.6	1037.2	1045.1	1054.7	1054.1
27.5°	1058.4	1060.8	1052.9	1045.1	1046.8	1046.2	1048.1	1049.9	1056.0	1065.7	1063.2
30°	1077.2	1079.0	1072.4	1064.5	1063.2	1059.0	1064.5	1070.5	1077.2	1085.7	1083.8
32.5°	1108.1	1111.8	1103.3	1094.8	1089.4	1086.9	1091.1	1101.5	1110.6	1119.7	1116.0
35°	1159.8	1162.1	1154.3	1138.5	1128.8	1128.8	1132.4	1145.7	1160.3	1171.9	1167.6
37.5°	1232.6	1235.6	1221.6	1202.8	1188.3	1188.3	1193.1	1207.0	1228.9	1245.3	1239.2
40°	1321.1	1325.4	1307.8	1288.4	1274.5	1272.0	1278.1	1293.9	1314.5	1335.2	1328.4
42.5°	1427.9	1432.8	1409.8	1392.8	1381.9	1381.9	1384.9	1399.4	1418.3	1443.7	1442.0
45°	1564.6	1573.1	1541.5	1524.5	1514.1	1516.6	1518.4	1531.1	1548.2	1577.3	1576.0
47.5°	1727.1	1735.6	1702.3	1684.7	1682.8	1694.4	1687.2	1696.2	1705.3	1738.7	1729.0
50°	1911.6	1926.2	1903.1	1902.0	1905.6	1926.8	1909.9	1914.7	1904.3	1925.6	1912.9
52.5°	2137.4	2158.6	2154.4	2161.7	2202.3	2246.1	2207.2	2190.2	2151.4	2158.0	2135.6
55°	2411.1	2443.3	2449.3	2493.0	2585.3	2674.5	2591.9	2523.3	2440.8	2425.7	2402.0
57.5°	2722.4	2747.9	2777.0	2866.3	3038.6	3197.0	3038.6	2886.9	2757.0	2726.1	2704.3
60°	3057.5	3089.0	3116.9	3248.6	3504.7	3727.4	3499.9	3258.9	3087.2	3045.3	3008.9
62.5°	3417.4	3457.9	3477.4	3623.7	3922.3	4188.0	3926.5	3634.5	3444.0	3399.1	3362.7
65°	3762.7	3796.0	3817.8	3973.8	4259.1	4525.5	4278.5	3990.8	3794.8	3735.9	3706.8
67.5°	3923.5	3941.6	3995.0	4171.6	4472.7	4776.7	4523.6	4190.5	3971.4	3868.2	3869.5
70°	3688.0	3650.9	3779.6	4062.4	4498.1	4930.9	4556.4	4053.9	3785.7	3618.1	3658.2
72.5°	2849.9	2786.2	3009.5	3493.2	4206.9	4832.6	4236.0	3520.5	3148.5	2808.6	2893.0
75°	1550.5	1478.4	1786.7	2398.4	3354.8	4188.7	3431.9	2467.0	1989.3	1539.0	1639.2
77.5°	437.6	410.2	659.1	1160.3	2017.8	2940.9	2095.5	1185.8	781.7	463.6	515.3
80°	134.1	129.9	176.0	349.5	856.9	1408.6	823.5	353.8	224.0	141.4	149.3
82.5°	79.5	72.8	87.4	127.4	218.4	442.4	212.4	132.9	106.8	71.6	77.7
85°	45.5	42.4	51.6	61.9	73.4	94.1	61.3	63.1	57.1	38.2	40.1
87.5°	18.9	17.0	20.0	19.4	17.0	21.8	16.4	19.4	23.1	15.2	13.9
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)