

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: P959719

Luminaire Tested: **NAV-SB1B-722-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959719
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1B-722-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 450mA LIGHTSQUARE WITH 26 LEDS AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4911.8 lumens
Efficiency: N/A
Efficacy: 123.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

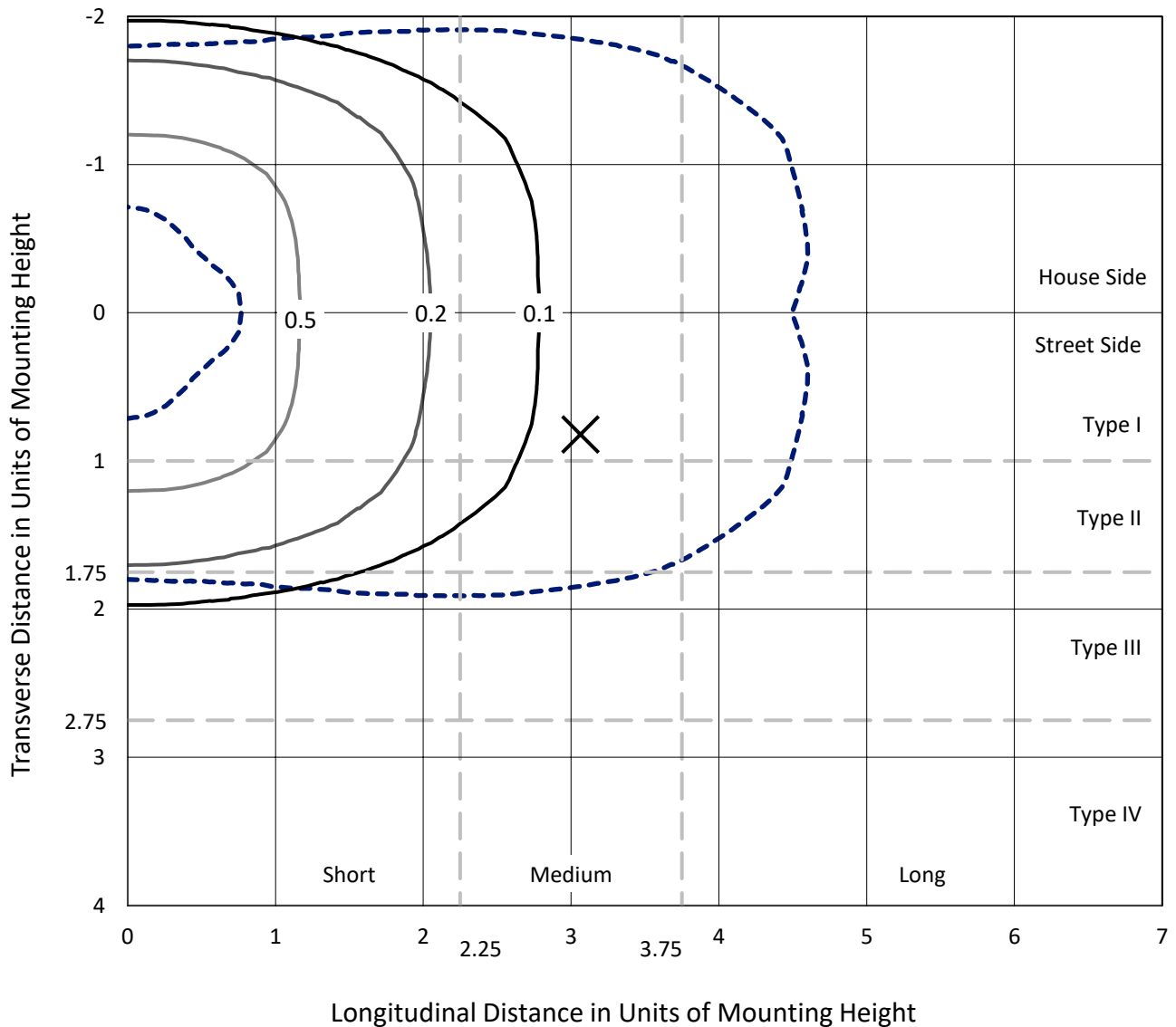
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

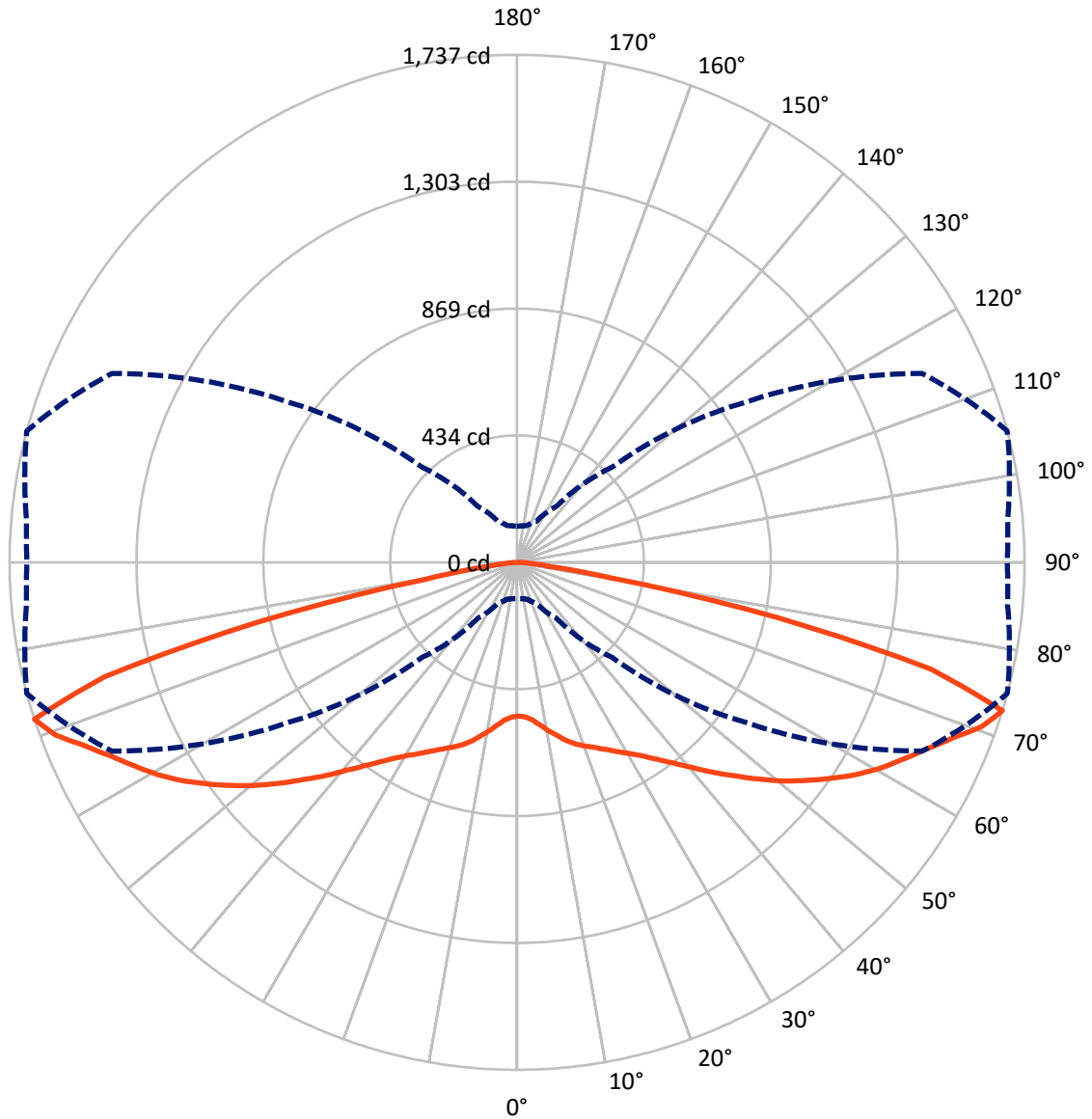
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2455.9	0.0	2455.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2455.9	0.0	2455.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	4911.8	0.0	4911.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.5	1.0
10°-20°	170.0	3.5
20°-30°	328.5	6.7
30°-40°	554.6	11.3
40°-50°	879.6	17.9
50°-60°	1177.7	24.0
60°-70°	1120.8	22.8
70°-80°	584.8	11.9
80°-90°	44.3	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°	4911.8	100.0
0°-180°	4911.8	100.0

Coefficient of Utilization

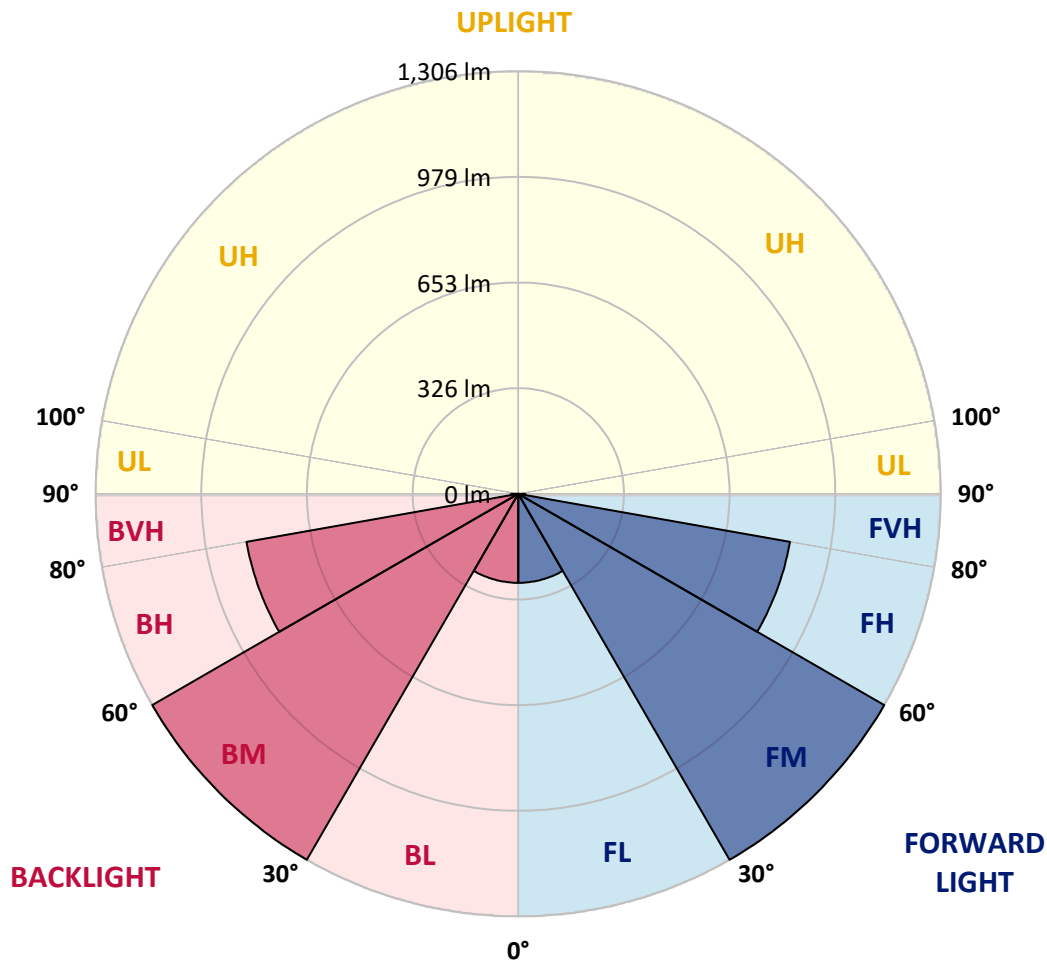


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	275.0	5.6			
FM (30°-60°)	1306.0	26.6			
FH (60°-80°)	852.8	17.4			G1/1800
FVH (80°-90°)	22.1	0.5			G1/100
BL (0°-30°)	275.0	5.6	B1/500		
BM (30°-60°)	1306.0	26.6	B2/2500		
BH (60°-80°)	852.8	17.4	B2/1000		G2/1000
BVH (80°-90°)	22.1	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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	526.1	526.1	526.1	526.1	526.1	526.1	526.1	526.1	526.1	526.1	526.1
2.5°	526.1	525.6	526.1	526.6	526.4	526.4	527.7	528.4	529.9	529.6	529.4
5°	522.6	522.3	524.4	526.6	528.4	531.4	535.2	537.9	541.4	542.2	542.2
7.5°	520.9	520.1	523.7	527.7	533.2	540.7	548.0	555.4	561.5	563.5	564.1
10°	522.1	522.3	527.2	534.6	543.5	554.0	564.3	577.1	585.6	587.6	589.6
12.5°	527.9	527.4	535.5	547.5	559.4	572.8	584.9	598.9	608.1	612.9	614.9
15°	538.4	537.4	548.7	566.5	584.0	599.6	609.4	622.7	633.4	639.5	641.8
17.5°	550.9	551.4	566.3	589.4	612.4	630.0	639.3	646.1	654.3	659.6	662.0
20°	573.1	574.0	590.6	618.0	644.2	664.3	671.9	669.3	671.6	675.6	678.7
22.5°	602.6	603.1	621.7	651.3	678.9	700.9	705.9	695.7	689.4	692.2	694.1
25°	637.0	640.2	658.8	689.1	717.5	738.5	740.8	725.3	709.7	710.4	711.8
27.5°	678.9	681.8	700.7	730.8	759.6	778.0	777.7	756.9	734.0	728.3	730.0
30°	724.3	727.5	746.8	778.0	804.7	820.8	817.3	792.4	759.8	749.1	750.3
32.5°	778.2	780.2	799.7	830.9	855.7	868.5	861.2	830.6	790.0	777.7	780.6
35°	843.4	846.3	860.9	890.3	912.0	922.6	910.3	874.2	828.6	814.8	816.8
37.5°	917.9	915.8	932.4	958.5	976.5	983.1	966.3	923.4	872.7	856.4	859.5
40°	995.6	994.6	1012.7	1037.7	1047.6	1051.5	1026.7	979.8	923.6	906.1	911.8
42.5°	1066.1	1065.3	1089.7	1117.5	1129.2	1124.7	1093.4	1039.8	982.6	962.5	967.5
45°	1122.5	1121.5	1151.4	1190.4	1213.5	1206.0	1163.9	1106.0	1042.2	1021.4	1026.2
47.5°	1165.9	1166.3	1198.5	1246.9	1287.3	1290.1	1235.8	1173.4	1107.9	1084.3	1091.4
50°	1197.2	1198.7	1233.1	1286.8	1341.9	1366.2	1309.3	1242.6	1175.9	1149.3	1157.3
52.5°	1205.0	1207.8	1249.2	1312.1	1377.1	1423.4	1384.1	1309.1	1240.4	1215.0	1221.6
55°	1163.6	1169.1	1221.6	1310.1	1398.6	1461.0	1449.8	1376.6	1305.3	1279.2	1286.5
57.5°	1068.6	1076.4	1137.5	1253.2	1393.9	1486.9	1500.7	1441.3	1370.3	1345.2	1350.9
60°	935.4	944.7	1003.4	1129.6	1326.7	1496.4	1536.6	1504.2	1430.0	1405.7	1410.9
62.5°	734.5	746.6	816.8	964.7	1184.7	1452.0	1567.1	1561.1	1483.6	1453.2	1456.8
65°	471.2	484.0	558.0	732.8	995.4	1316.1	1576.7	1616.5	1540.3	1497.9	1503.2
67.5°	284.1	289.9	326.6	444.1	727.5	1111.2	1495.9	1678.0	1606.5	1553.8	1557.9
70°	181.8	185.1	206.8	260.9	411.3	810.8	1295.8	1689.5	1686.7	1611.3	1610.8
72.5°	123.4	124.4	130.2	154.5	232.7	460.7	955.7	1529.5	1737.0	1685.3	1677.2
75°	90.3	95.8	105.1	109.4	132.1	230.2	547.8	1074.6	1463.8	1486.4	1431.7
77.5°	67.2	67.4	80.3	85.3	94.3	122.6	231.8	599.8	908.9	954.3	851.2
80°	56.9	53.9	53.7	68.7	70.9	76.5	103.5	207.2	325.5	197.4	149.2
82.5°	47.4	44.2	39.9	53.7	48.4	46.9	44.9	84.3	103.5	50.9	43.4
85°	33.1	31.6	30.1	35.2	27.6	23.6	21.5	39.4	43.7	21.5	19.1
87.5°	14.2	14.8	15.1	15.6	11.6	8.3	8.3	11.1	11.1	8.5	6.3
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)