

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: P959219

Luminaire Tested: **NAV-SB1A-727-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959219
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-727-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4470 lumens
Efficiency: N/A
Efficacy: 144.7 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

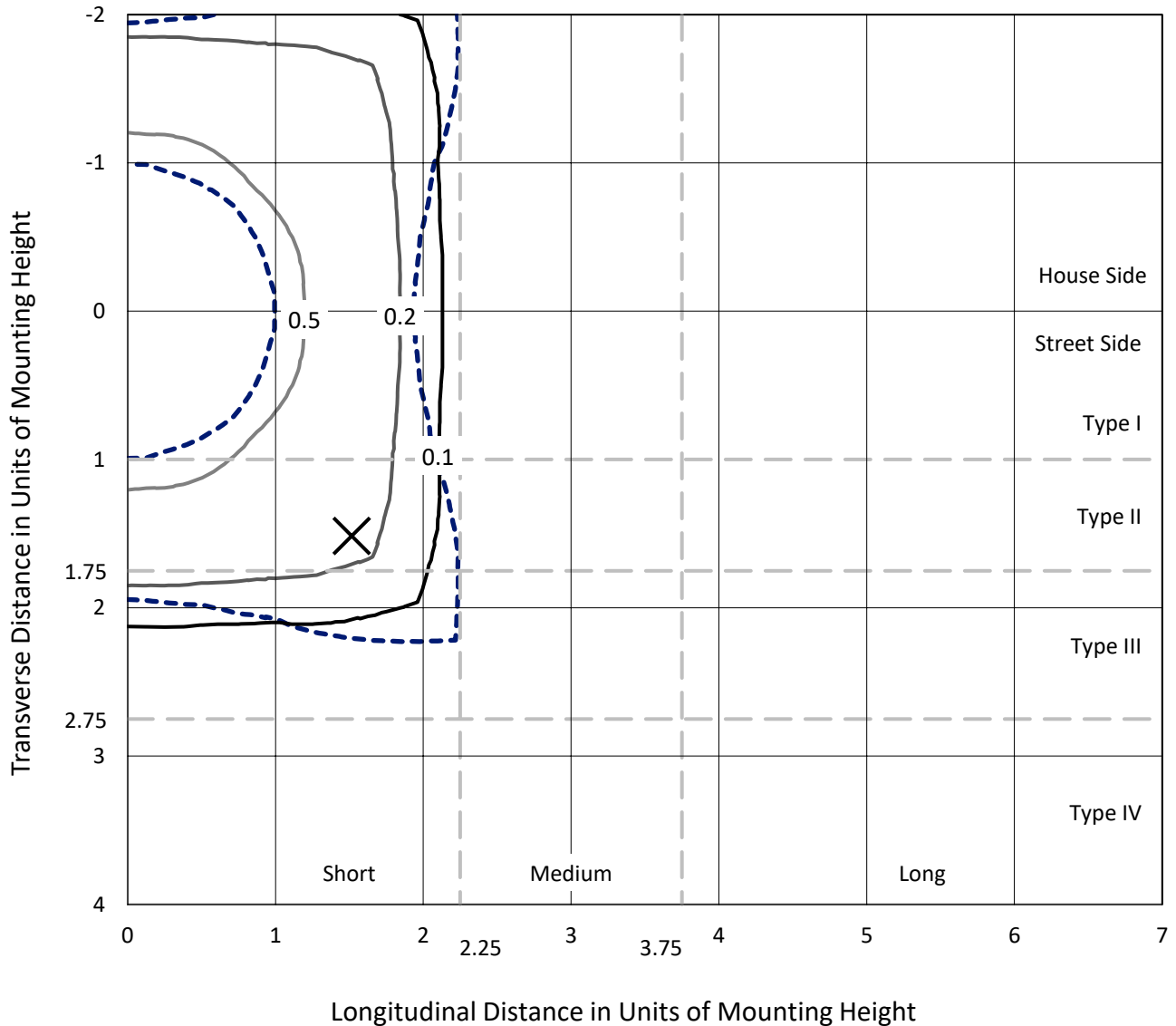
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

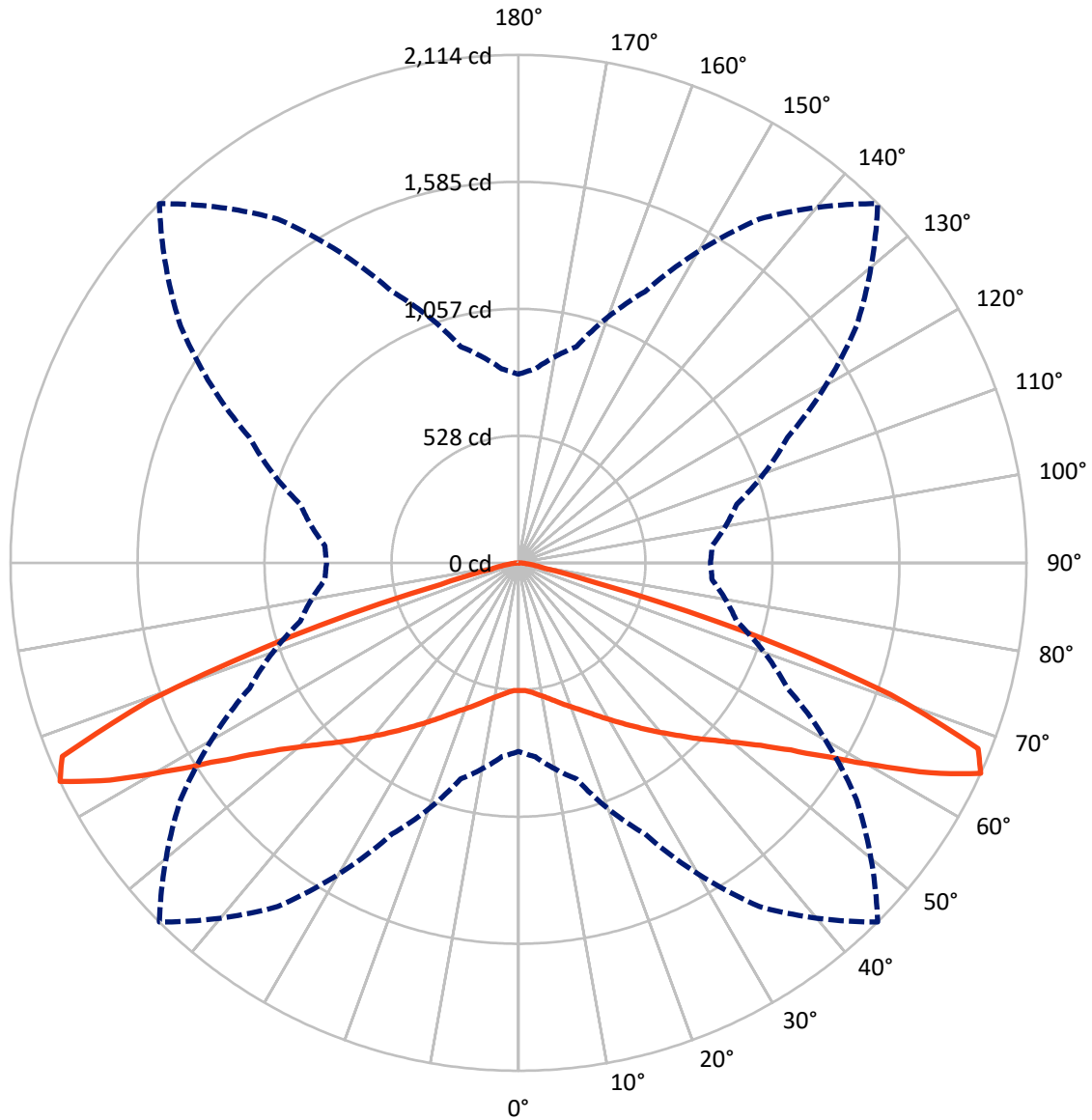
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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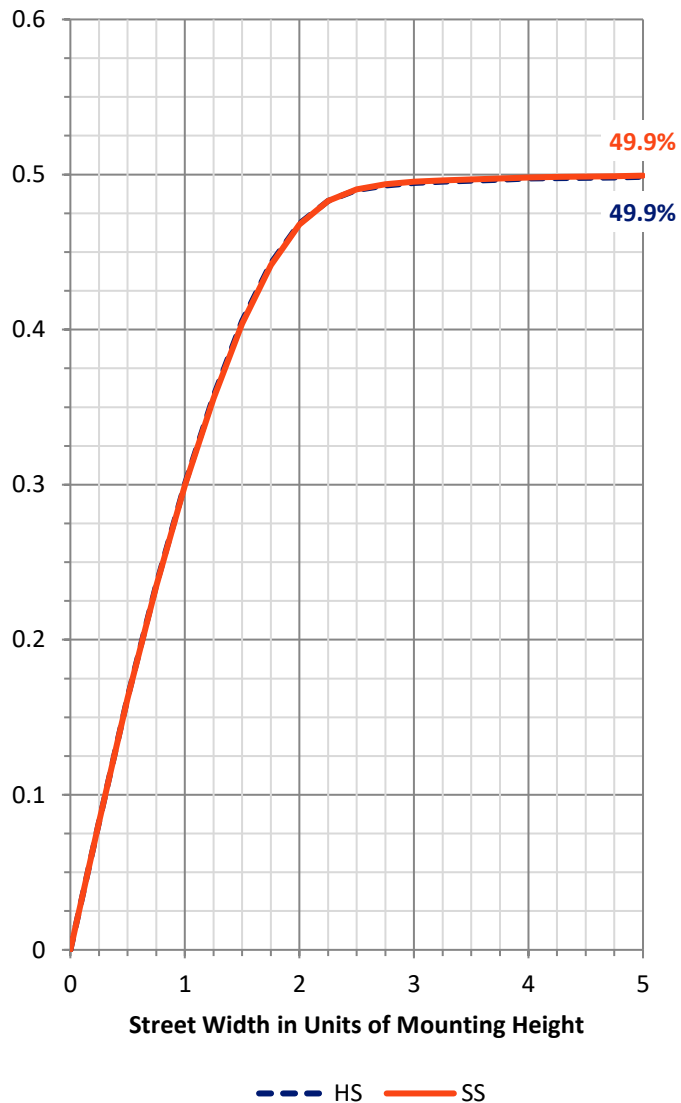
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2235.0	0.0	2235.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2235.0	0.0	2235.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	4470.0	0.0	4470.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.5	1.2
10°-20°	171.3	3.8
20°-30°	323.5	7.2
30°-40°	529.7	11.8
40°-50°	821.2	18.4
50°-60°	1213.1	27.1
60°-70°	1154.8	25.8
70°-80°	186.4	4.2
80°-90°	17.6	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°	4470.0	100.0
0°-180°	4470.0	100.0

Coefficient of Utilization



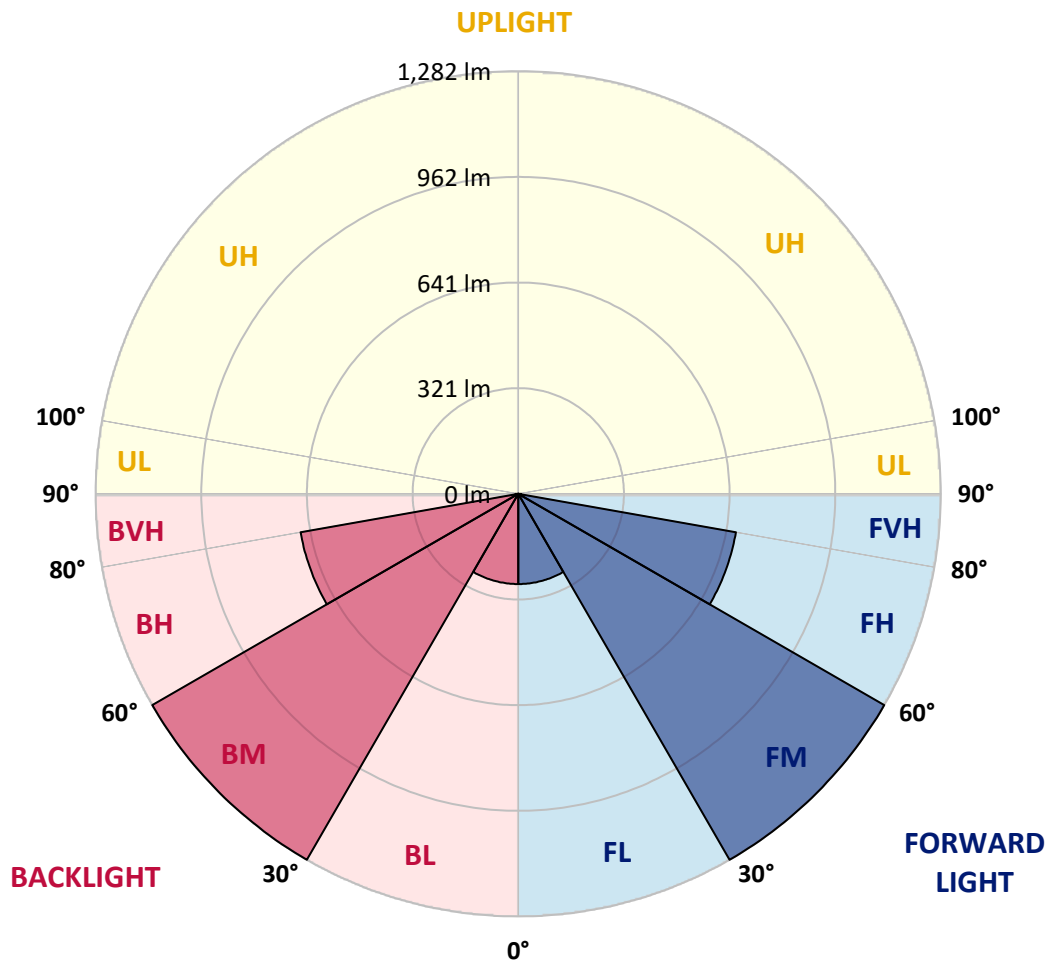
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	273.6	6.1			
FM (30°-60°)	1282.0	28.7			
FH (60°-80°)	670.6	15.0			G1/1800
FVH (80°-90°)	8.8	0.2			G0/10
BL (0°-30°)	273.6	6.1	B1/500		
BM (30°-60°)	1282.0	28.7	B2/2500		
BH (60°-80°)	670.6	15.0	B2/1000		G1/1800
BVH (80°-90°)	8.8	0.2			G0/10
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°	532.0	532.0	532.0	532.0	532.0	532.0	532.0	532.0	532.0	532.0	532.0
2.5°	535.6	533.8	535.2	534.0	533.1	532.2	532.7	534.2	534.8	535.2	535.2
5°	542.7	541.2	541.8	541.8	540.3	539.9	540.1	541.2	542.5	542.5	542.5
7.5°	554.4	552.9	554.4	553.5	552.2	551.8	551.4	552.4	554.4	554.4	553.7
10°	568.6	566.7	567.6	567.2	565.6	565.0	564.7	566.1	567.8	567.6	567.2
12.5°	584.0	582.0	583.1	581.8	581.3	580.7	580.7	580.5	581.6	580.7	581.1
15°	601.3	599.9	600.3	599.5	600.1	599.7	597.9	597.1	597.5	596.1	596.3
17.5°	621.7	618.6	620.1	619.7	619.7	620.5	617.7	616.5	617.5	616.1	617.2
20°	645.2	642.1	642.8	641.9	640.7	641.6	638.1	639.0	639.6	638.8	640.7
22.5°	671.1	667.0	666.8	667.2	664.7	665.0	662.5	664.7	666.0	663.6	666.0
25°	697.5	693.2	696.2	695.1	691.9	692.6	690.7	693.0	694.1	691.0	694.5
27.5°	725.5	722.6	725.3	726.0	722.1	724.9	722.1	724.2	725.3	720.6	724.2
30°	758.3	755.3	757.8	759.6	755.1	759.4	757.2	758.5	758.7	753.1	756.4
32.5°	794.0	789.5	795.7	796.6	791.7	796.8	794.0	795.7	796.8	789.2	794.4
35°	837.4	831.8	839.0	837.9	833.6	837.9	835.2	837.9	840.6	831.4	837.0
37.5°	884.3	878.5	886.1	884.1	880.1	882.9	881.4	883.1	887.4	877.6	883.7
40°	935.9	928.8	939.0	935.4	931.6	931.2	932.0	933.2	938.8	927.8	931.4
42.5°	991.1	983.5	999.0	993.3	987.9	984.3	987.3	989.5	994.9	982.6	989.0
45°	1054.1	1045.3	1065.5	1058.8	1050.3	1042.8	1047.6	1050.9	1058.8	1044.0	1051.6
47.5°	1123.6	1113.8	1135.3	1133.2	1119.3	1103.2	1114.0	1123.6	1129.4	1111.5	1117.6
50°	1191.6	1184.0	1212.2	1214.6	1197.6	1175.0	1190.0	1204.6	1206.1	1182.6	1185.5
52.5°	1255.2	1247.6	1288.6	1304.1	1288.9	1262.0	1277.9	1292.7	1280.8	1250.3	1251.2
55°	1306.2	1299.9	1352.2	1392.1	1397.2	1375.0	1384.5	1384.0	1345.0	1298.1	1299.7
57.5°	1318.5	1317.6	1383.5	1468.1	1521.9	1524.6	1506.0	1458.5	1374.3	1311.3	1307.3
60°	1262.4	1268.0	1358.6	1507.8	1651.4	1711.0	1630.5	1494.8	1340.9	1253.5	1243.1
62.5°	1094.7	1109.5	1218.7	1459.4	1755.8	1925.4	1730.3	1439.6	1203.7	1089.5	1082.8
65°	784.5	810.3	931.0	1245.4	1746.4	2113.8	1716.0	1235.3	939.9	808.3	798.7
67.5°	355.9	382.1	484.6	852.7	1518.1	2062.6	1514.5	861.6	508.9	383.6	377.9
70°	128.9	133.5	166.5	341.3	970.2	1643.5	1011.7	343.8	176.9	142.2	140.4
72.5°	78.0	78.7	85.7	122.2	337.1	997.8	351.5	126.3	87.4	77.6	78.9
75°	49.6	49.1	61.0	74.7	119.5	336.6	125.4	74.7	60.8	55.4	55.9
77.5°	35.7	36.8	43.8	55.9	75.3	114.2	74.0	53.4	43.8	35.9	36.6
80°	26.6	27.4	31.9	43.5	52.9	71.1	47.0	39.5	33.0	22.4	23.1
82.5°	19.3	19.3	20.8	31.7	32.3	38.3	25.5	27.8	21.7	15.9	15.9
85°	11.5	11.2	13.0	18.9	16.8	14.1	11.7	17.0	13.6	9.8	9.6
87.5°	4.0	4.3	4.0	5.4	4.5	3.8	3.6	4.7	3.8	3.4	3.2
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)