

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: P959220

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

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P959220  
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-SB1A-727-U-5WQ  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 2700K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4315.3 lumens  
Efficiency: N/A  
Efficacy: 139.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G1

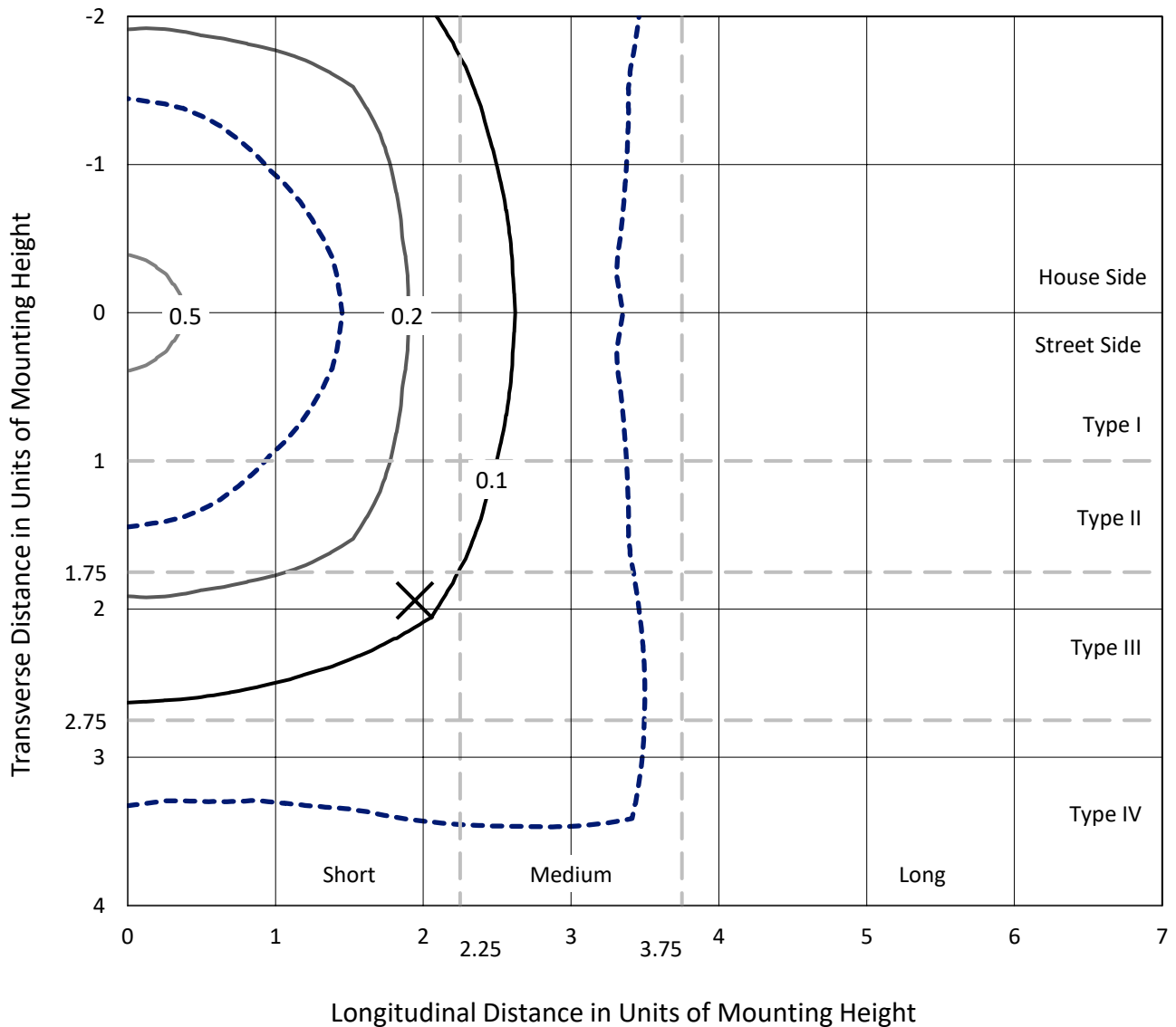
Input Watts (W): 30.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

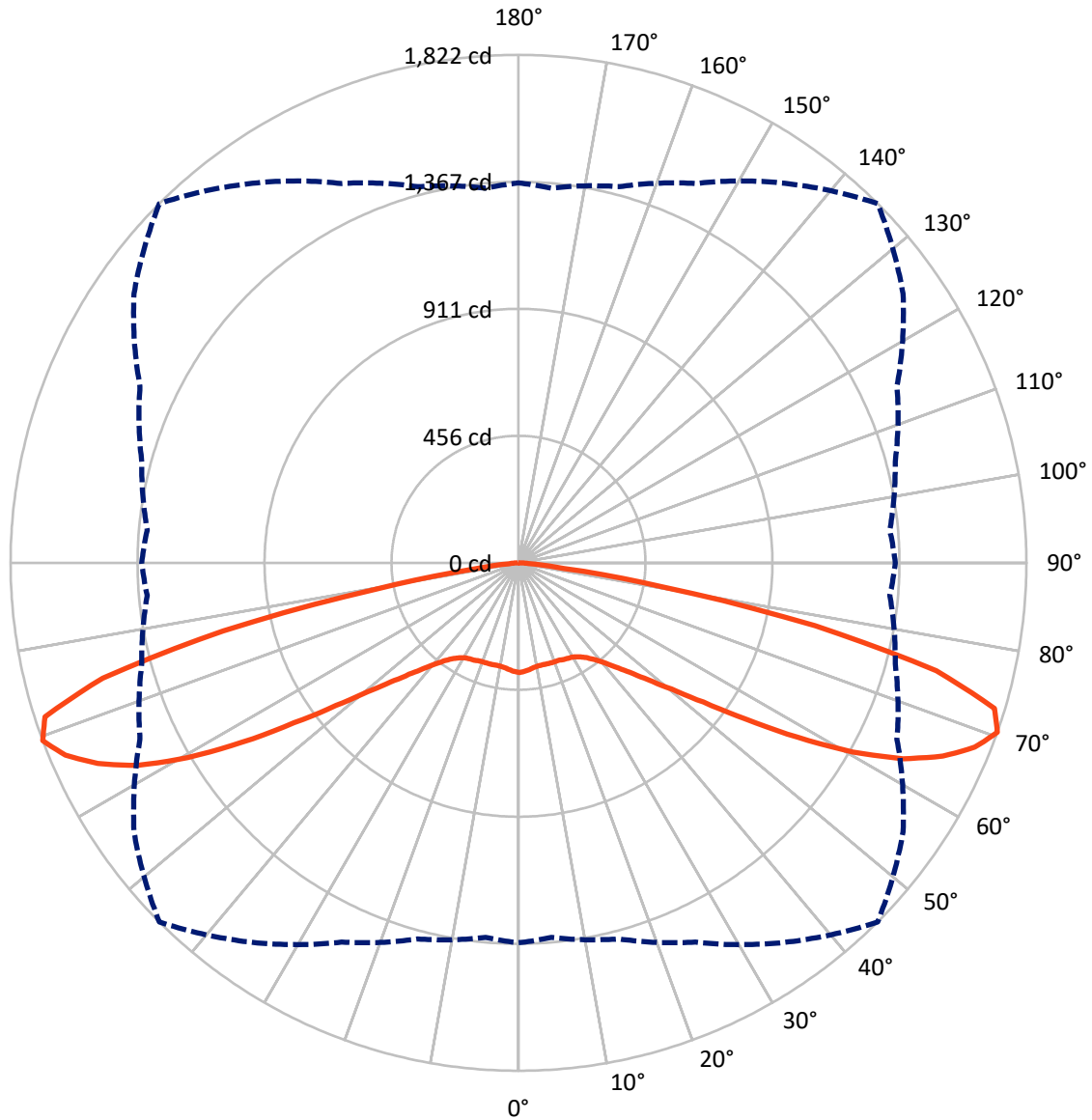
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.6 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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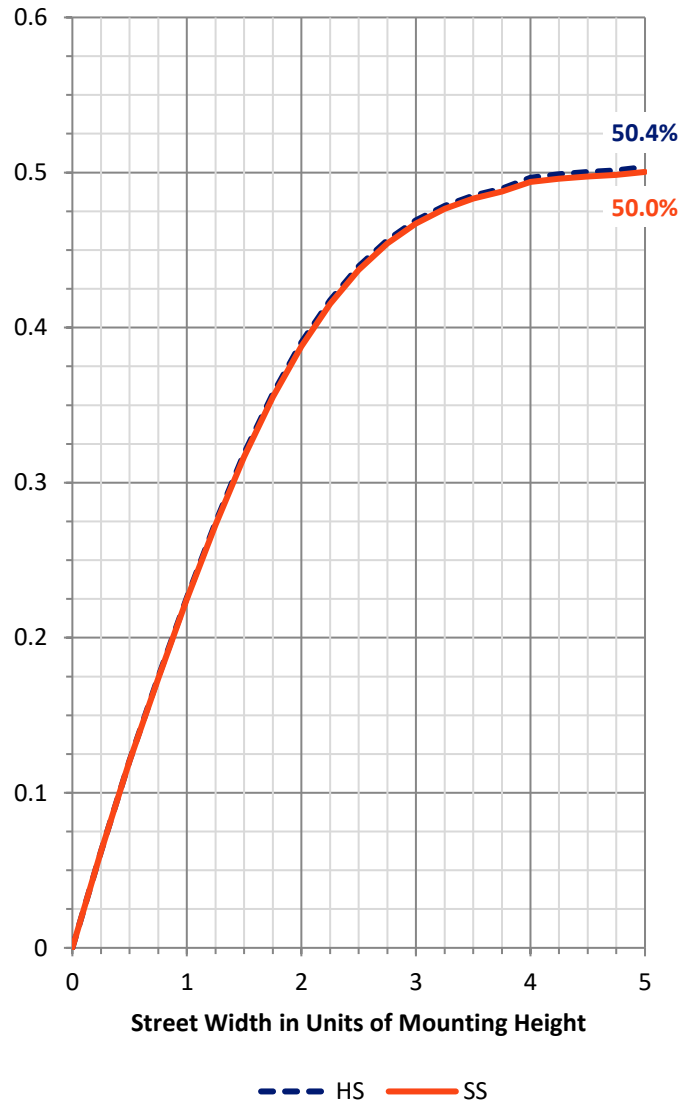
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2157.6	0.0	2157.6
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2157.6	0.0	2157.6
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	4315.3	0.0	4315.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	36.6	0.8
10°-20°	107.5	2.5
20°-30°	178.9	4.1
30°-40°	270.6	6.3
40°-50°	449.7	10.4
50°-60°	848.5	19.7
60°-70°	1432.7	33.2
70°-80°	941.4	21.8
80°-90°	49.3	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°	4315.3	100.0
0°-180°	4315.3	100.0

**Coefficient of Utilization**



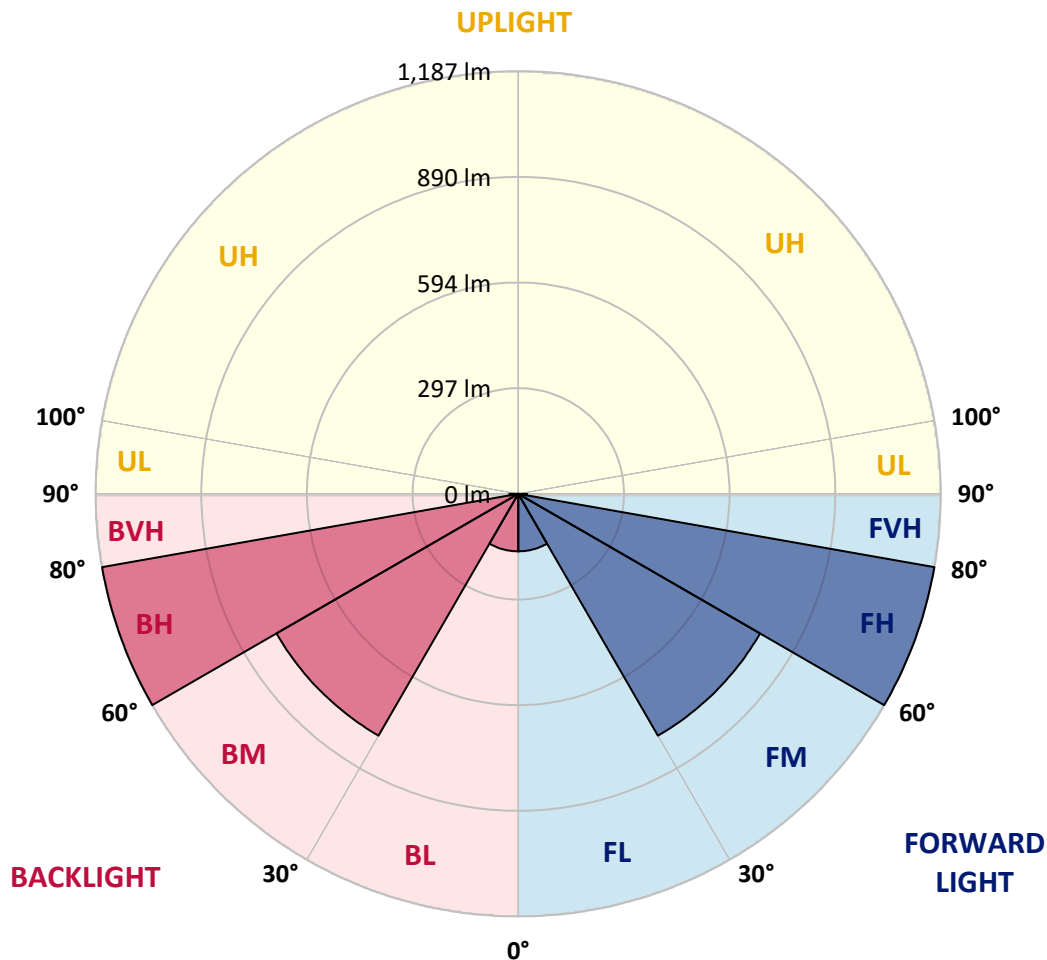
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	161.5	3.7			
FM (30°-60°)	784.4	18.2			
FH (60°-80°)	1187.1	27.5			G1/1800
FVH (80°-90°)	24.7	0.6			G1/100
BL (0°-30°)	161.5	3.7	B1/500		
BM (30°-60°)	784.4	18.2	B1/1000		
BH (60°-80°)	1187.1	27.5	B3/2500		G1/1800
BVH (80°-90°)	24.7	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	393.6	393.6	393.6	393.6	393.6	393.6	393.6	393.6	393.6	393.6	393.6
2.5°	391.1	392.3	391.9	390.9	390.9	390.3	390.9	391.3	392.1	392.5	392.3
5°	386.0	386.9	386.7	386.0	386.2	385.6	386.0	386.7	387.1	387.3	387.3
7.5°	381.5	382.4	382.0	380.9	380.9	380.2	380.4	381.1	381.7	382.0	382.0
10°	380.4	381.3	380.0	378.1	377.5	376.6	376.8	377.5	378.8	379.6	379.6
12.5°	380.9	381.5	380.2	377.5	376.8	375.9	375.9	376.6	378.4	379.2	379.6
15°	382.2	382.8	380.9	377.9	377.3	376.6	376.4	377.3	379.2	380.9	381.1
17.5°	384.7	385.3	382.2	378.1	377.3	377.5	377.3	377.9	381.1	384.0	384.0
20°	386.9	387.3	383.1	378.1	377.3	377.5	377.3	378.6	382.6	386.7	386.9
22.5°	387.6	388.1	384.0	379.8	379.0	379.2	379.0	380.4	384.2	388.3	388.3
25°	387.8	388.5	385.3	382.0	383.1	383.6	383.1	383.3	386.2	389.8	389.6
27.5°	391.1	392.1	389.2	386.2	386.9	386.7	387.3	388.1	390.3	393.9	393.0
30°	398.1	398.8	396.4	393.4	393.0	391.3	393.4	395.6	398.1	401.3	400.6
32.5°	409.6	410.9	407.7	404.7	402.6	401.7	403.2	407.1	410.4	413.8	412.5
35°	428.7	429.5	426.6	420.8	417.2	417.2	418.5	423.4	428.9	433.1	431.5
37.5°	455.5	456.6	451.5	444.5	439.2	439.2	441.0	446.1	454.2	460.2	458.0
40°	488.3	489.8	483.4	476.2	471.0	470.2	472.3	478.2	485.8	493.4	491.0
42.5°	527.8	529.5	521.0	514.8	510.8	510.8	511.9	517.2	524.2	533.6	532.9
45°	578.2	581.4	569.7	563.4	559.6	560.5	561.2	565.9	572.2	582.9	582.5
47.5°	638.4	641.4	629.1	622.7	622.0	626.3	623.5	626.9	630.3	642.6	639.0
50°	706.5	711.9	703.4	702.9	704.3	712.2	705.8	707.7	703.9	711.7	706.9
52.5°	790.0	797.9	796.2	799.0	814.0	830.1	815.8	809.4	795.1	797.6	789.2
55°	891.1	903.0	905.3	921.4	955.5	988.5	958.0	932.6	902.1	896.5	887.8
57.5°	1006.1	1015.6	1026.3	1059.3	1123.1	1181.6	1123.1	1066.9	1019.0	1007.6	999.5
60°	1130.0	1141.6	1152.0	1200.7	1295.3	1377.6	1293.6	1204.5	1141.0	1125.6	1112.0
62.5°	1263.0	1278.1	1285.2	1339.3	1449.7	1547.9	1451.2	1343.3	1272.8	1256.2	1242.8
65°	1390.6	1402.9	1411.0	1468.7	1574.1	1672.6	1581.3	1475.0	1402.5	1380.8	1370.0
67.5°	1450.1	1456.8	1476.5	1541.8	1653.0	1765.5	1671.9	1548.8	1467.8	1429.7	1430.1
70°	1363.0	1349.3	1396.9	1501.4	1662.4	1822.3	1684.0	1498.2	1399.1	1337.2	1352.1
72.5°	1053.3	1029.7	1112.3	1291.1	1554.8	1786.1	1565.6	1301.1	1163.7	1038.0	1069.2
75°	573.1	546.4	660.3	886.4	1239.9	1548.1	1268.4	911.7	735.2	568.8	605.8
77.5°	161.7	151.6	243.5	428.9	745.8	1086.9	774.5	438.3	288.8	171.4	190.4
80°	49.6	48.0	65.1	129.1	316.7	520.6	304.3	130.8	82.7	52.3	55.1
82.5°	29.4	27.0	32.3	47.2	80.8	163.5	78.5	49.1	39.5	26.4	28.7
85°	16.8	15.7	19.1	22.9	27.2	34.7	22.7	23.4	21.1	14.1	14.8
87.5°	7.0	6.3	7.4	7.2	6.3	8.1	6.0	7.2	8.5	5.6	5.1
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)