

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: P881612

Luminaire Tested: **NAV-SB1A-835-U-5WQ**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P881612  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB1A-835-U-5WQ  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 3500K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

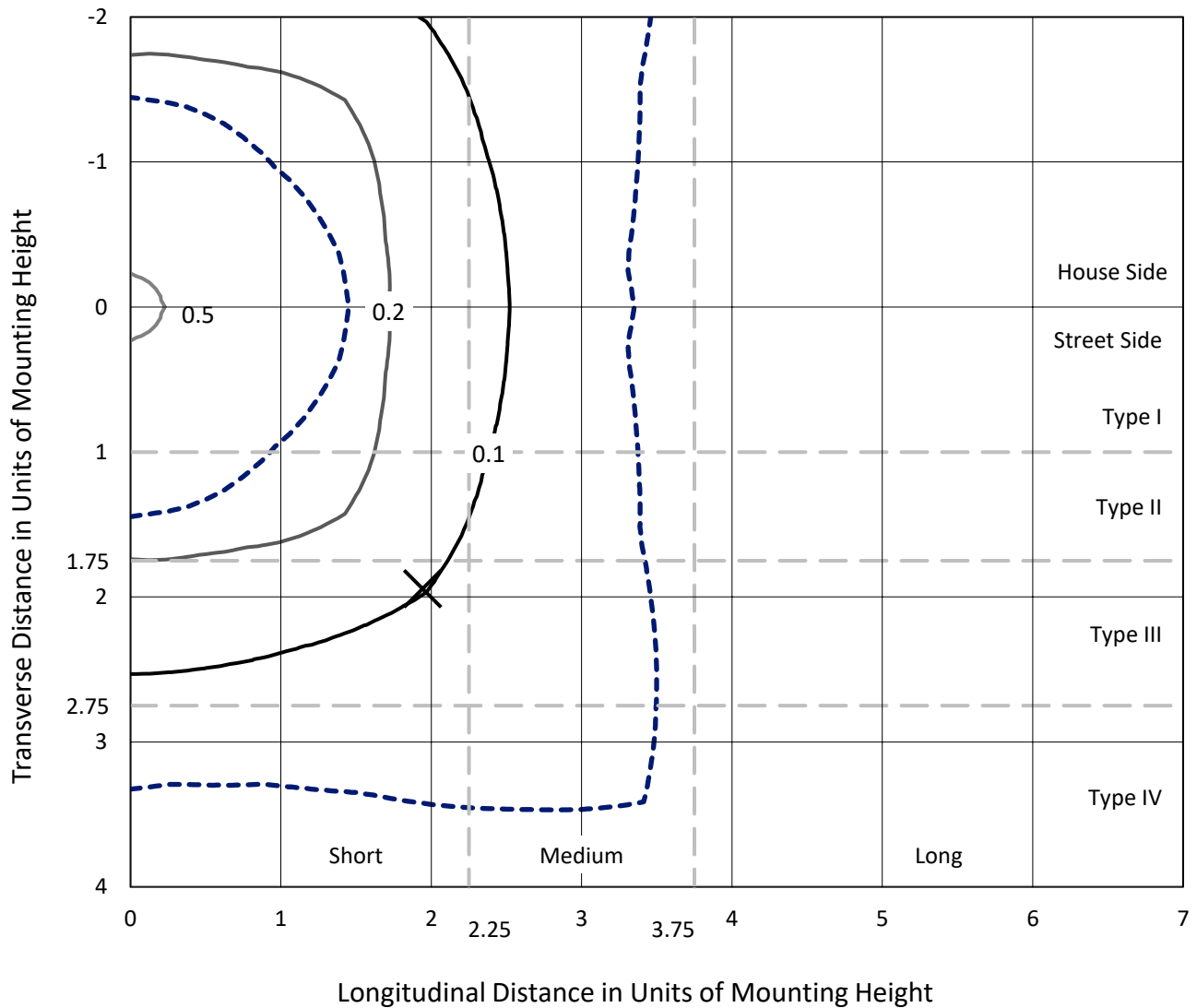
Lumens per Lamp: N/A  
Luminaire Lumens: 3832 lumens  
Efficiency: N/A  
Efficacy: 124.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G1  
  
Input Watts (W): 30.9  
Input Voltage (V): 120.0  
Input Current (Ain): 0.263  
Voltage Rise (V): NR  
Power Factor: 0.995  
Total Harmonic Distortion (THDi): 6.356  
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

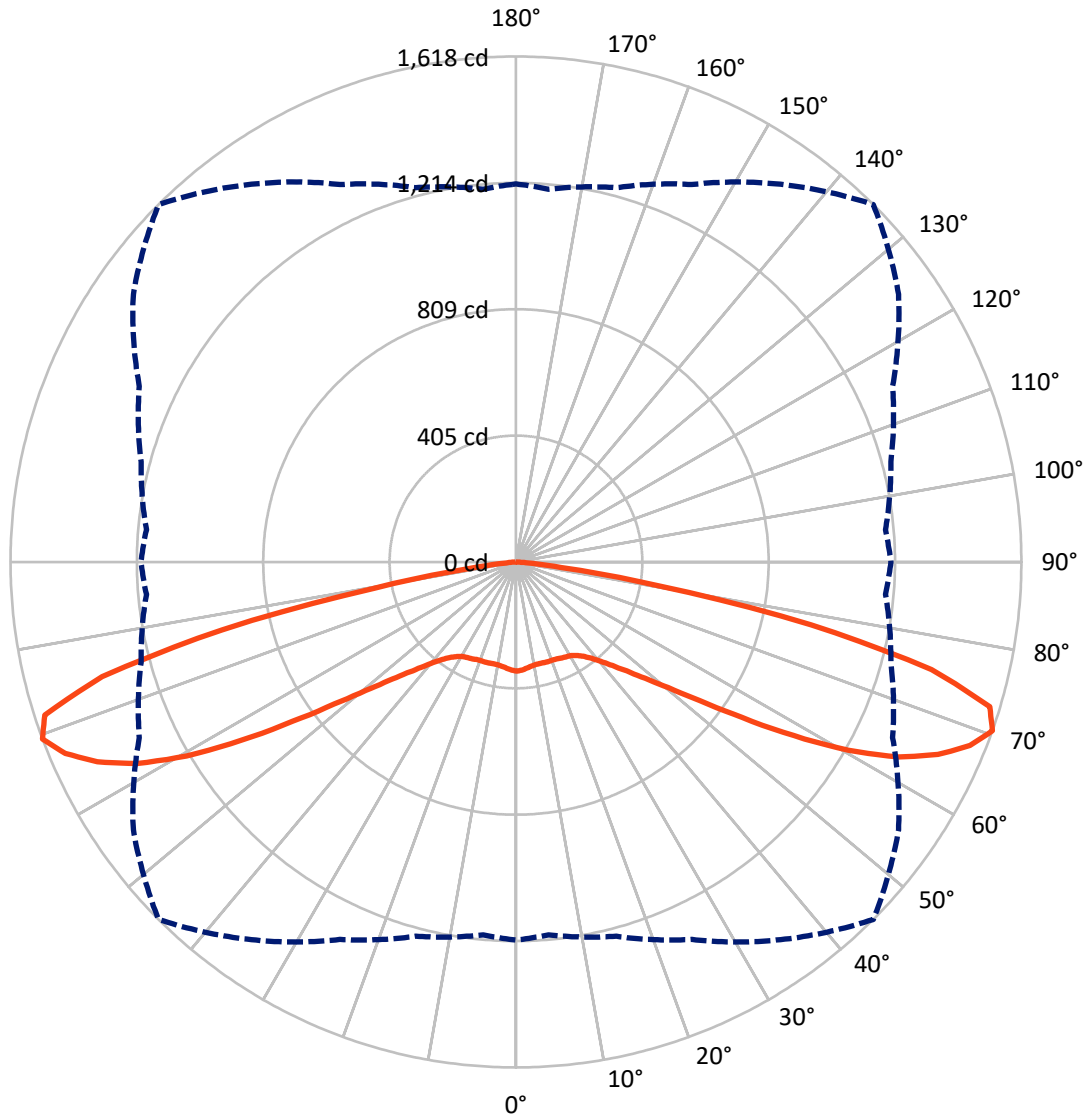
× Max cd  
 - - - 1/2 Max cd



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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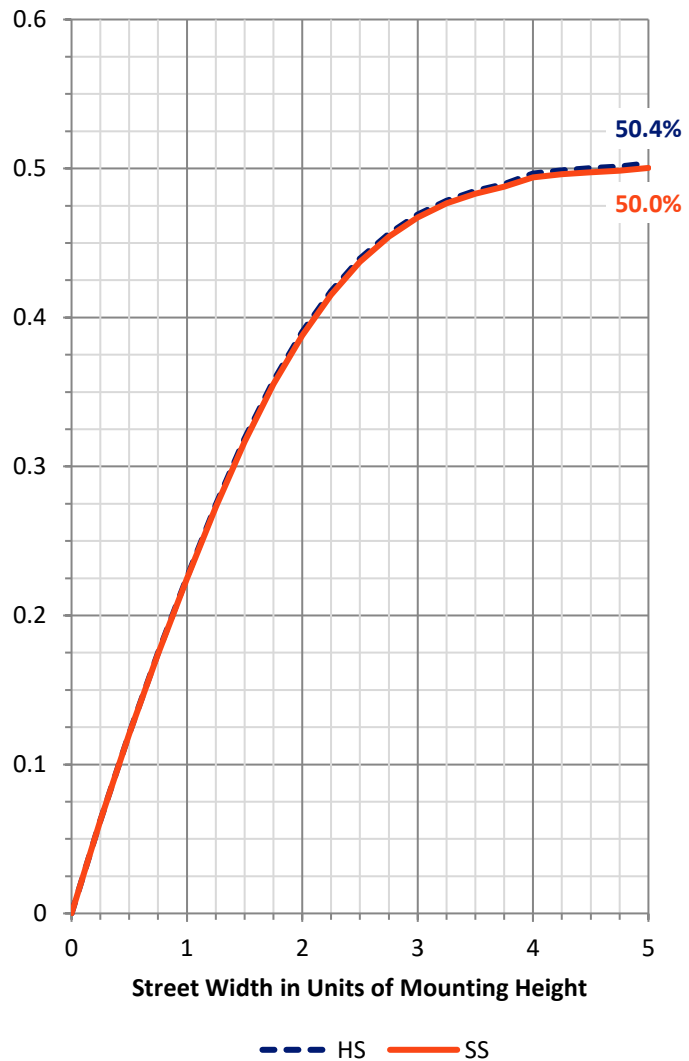
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1916.0	0.0	1916.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	1916.0	0.0	1916.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	3832.0	0.0	3832.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	32.5	0.8
10°-20°	95.5	2.5
20°-30°	158.9	4.1
30°-40°	240.3	6.3
40°-50°	399.3	10.4
50°-60°	753.5	19.7
60°-70°	1272.3	33.2
70°-80°	836.0	21.8
80°-90°	43.8	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°	3832.0	100.0
0°-180°	3832.0	100.0



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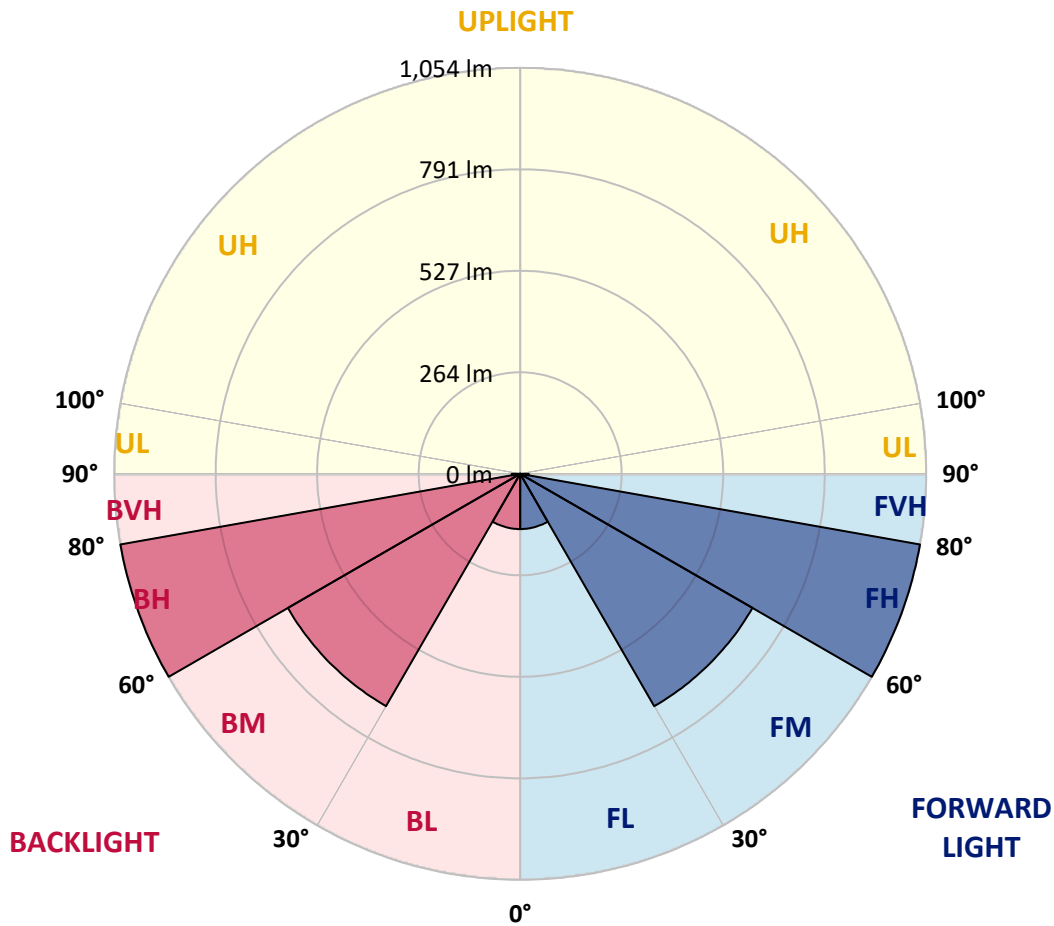
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	143.4	3.7			
FM (30°-60°)	696.5	18.2			
FH (60°-80°)	1054.1	27.5			G1/1800
FVH (80°-90°)	21.9	0.6			G1/100
BL (0°-30°)	143.4	3.7	B1/500		
BM (30°-60°)	696.5	18.2	B1/1000		
BH (60°-80°)	1054.1	27.5	B3/2500		G1/1800
BVH (80°-90°)	21.9	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°	349.6	349.6	349.6	349.6	349.6	349.6	349.6	349.6	349.6	349.6	349.6
2.5°	347.4	348.4	348.0	347.2	347.2	346.6	347.2	347.6	348.2	348.6	348.4
5°	342.8	343.6	343.4	342.8	343.0	342.4	342.8	343.4	343.8	344.0	344.0
7.5°	338.8	339.6	339.2	338.2	338.2	337.6	337.8	338.4	339.0	339.2	339.2
10°	337.8	338.6	337.4	335.8	335.2	334.4	334.6	335.2	336.4	337.0	337.0
12.5°	338.2	338.8	337.6	335.2	334.6	333.8	333.8	334.4	336.0	336.8	337.0
15°	339.4	340.0	338.2	335.6	335.0	334.4	334.2	335.0	336.8	338.2	338.4
17.5°	341.6	342.2	339.4	335.8	335.0	335.2	335.0	335.6	338.4	341.0	341.0
20°	343.6	344.0	340.2	335.8	335.0	335.2	335.0	336.2	339.8	343.4	343.6
22.5°	344.2	344.6	341.0	337.2	336.6	336.8	336.6	337.8	341.2	344.8	344.8
25°	344.4	345.0	342.2	339.2	340.2	340.6	340.2	340.4	343.0	346.2	346.0
27.5°	347.4	348.2	345.6	343.0	343.6	343.4	344.0	344.6	346.6	349.8	349.0
30°	353.5	354.1	351.9	349.4	349.0	347.6	349.4	351.3	353.5	356.3	355.7
32.5°	363.7	364.9	362.1	359.3	357.5	356.7	358.1	361.5	364.5	367.5	366.3
35°	380.6	381.4	378.8	373.7	370.5	370.5	371.7	376.0	380.8	384.6	383.2
37.5°	404.5	405.5	400.9	394.8	390.0	390.0	391.6	396.2	403.3	408.7	406.7
40°	433.6	435.0	429.2	422.9	418.3	417.5	419.5	424.6	431.4	438.2	436.0
42.5°	468.7	470.3	462.7	457.1	453.5	453.5	454.5	459.3	465.5	473.8	473.2
45°	513.5	516.3	505.9	500.3	496.9	497.7	498.3	502.5	508.1	517.7	517.3
47.5°	566.9	569.6	558.7	552.9	552.3	556.1	553.7	556.7	559.7	570.6	567.5
50°	627.4	632.2	624.6	624.2	625.4	632.4	626.8	628.4	625.0	632.0	627.8
52.5°	701.5	708.5	707.1	709.5	722.8	737.2	724.4	718.8	706.1	708.3	700.9
55°	791.3	801.9	803.9	818.2	848.5	877.8	850.7	828.2	801.1	796.1	788.3
57.5°	893.5	901.9	911.4	940.7	997.3	1049.3	997.3	947.5	904.9	894.7	887.5
60°	1003.5	1013.8	1023.0	1066.2	1150.2	1223.3	1148.7	1069.6	1013.2	999.5	987.5
62.5°	1121.6	1134.9	1141.3	1189.3	1287.3	1374.5	1288.7	1192.9	1130.3	1115.6	1103.6
65°	1234.9	1245.9	1253.0	1304.2	1397.8	1485.3	1404.2	1309.8	1245.5	1226.1	1216.6
67.5°	1287.7	1293.7	1311.2	1369.1	1467.9	1567.7	1484.7	1375.3	1303.4	1269.6	1270.0
70°	1210.4	1198.2	1240.5	1333.3	1476.3	1618.3	1495.4	1330.5	1242.5	1187.5	1200.6
72.5°	935.3	914.4	987.7	1146.5	1380.7	1586.0	1390.3	1155.4	1033.3	921.8	949.5
75°	508.9	485.2	586.4	787.1	1101.1	1374.7	1126.3	809.7	652.9	505.1	538.0
77.5°	143.6	134.6	216.3	380.8	662.3	965.2	687.8	389.2	256.5	152.2	169.1
80°	44.0	42.6	57.8	114.7	281.2	462.3	270.3	116.1	73.5	46.4	49.0
82.5°	26.1	23.9	28.7	41.8	71.7	145.2	69.7	43.6	35.1	23.5	25.5
85°	14.9	13.9	16.9	20.3	24.1	30.9	20.1	20.7	18.7	12.5	13.1
87.5°	6.2	5.6	6.6	6.4	5.6	7.2	5.4	6.4	7.6	5.0	4.6
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)