

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: P968678

Luminaire Tested: **NAV-SB5C-722-U-RW**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P968678  
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-SB5C-722-U-RW  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR  
WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

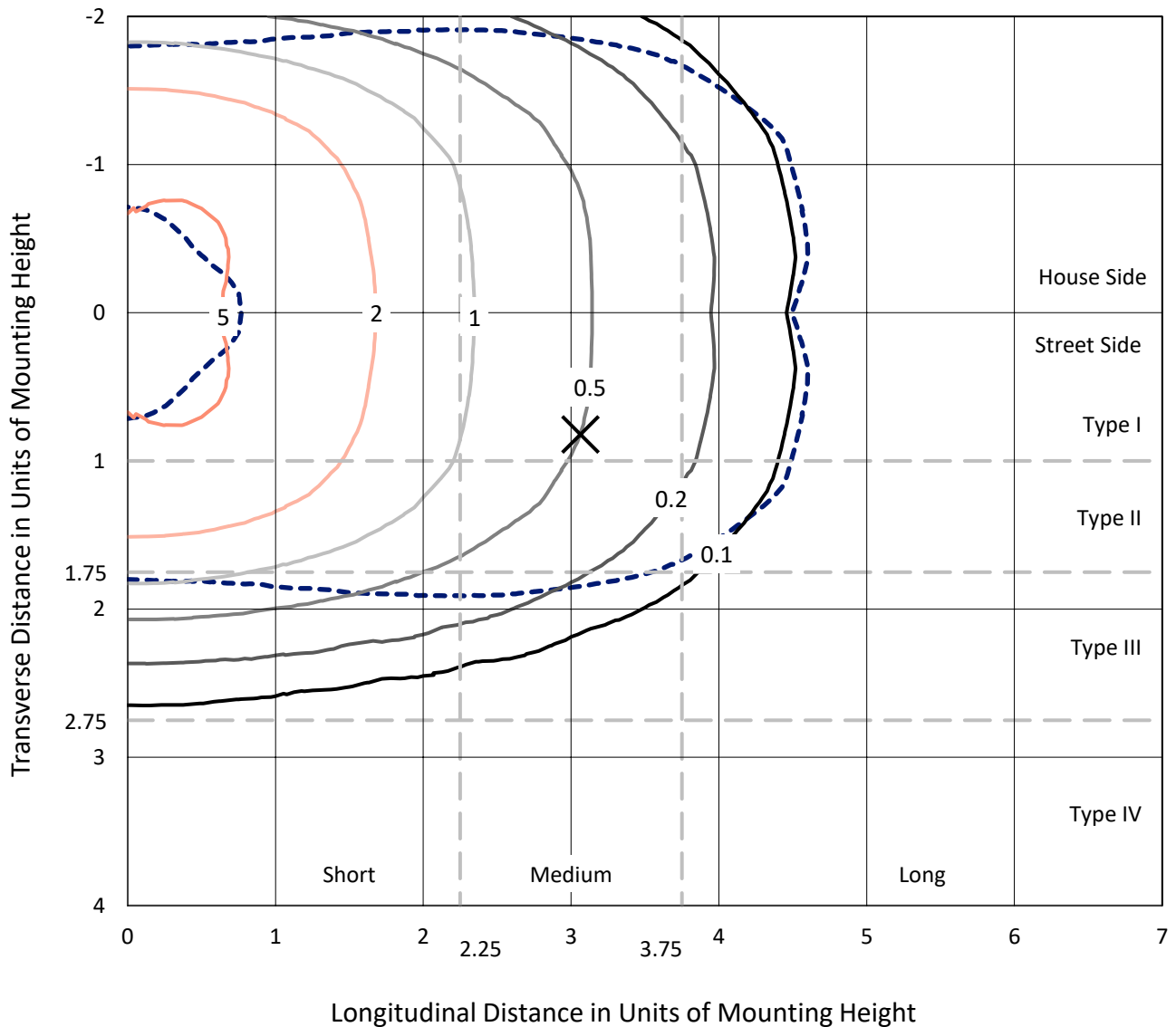
Lumens per Lamp: N/A  
Luminaire Lumens: 32985.5 lumens  
Efficiency: N/A  
Efficacy: 132.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 249.5  
Input Voltage (V): NR  
Input Current (Ain): 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

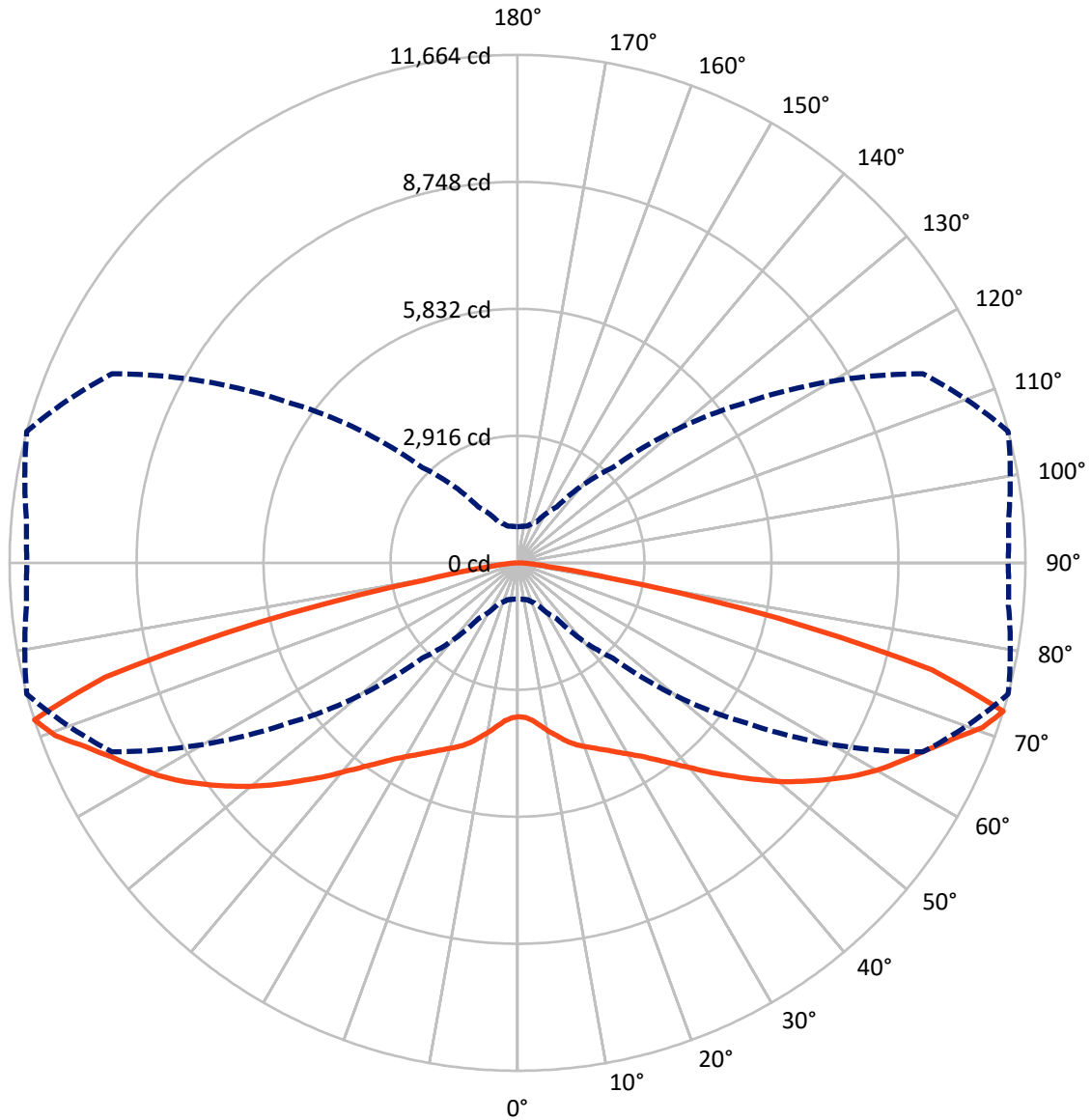
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 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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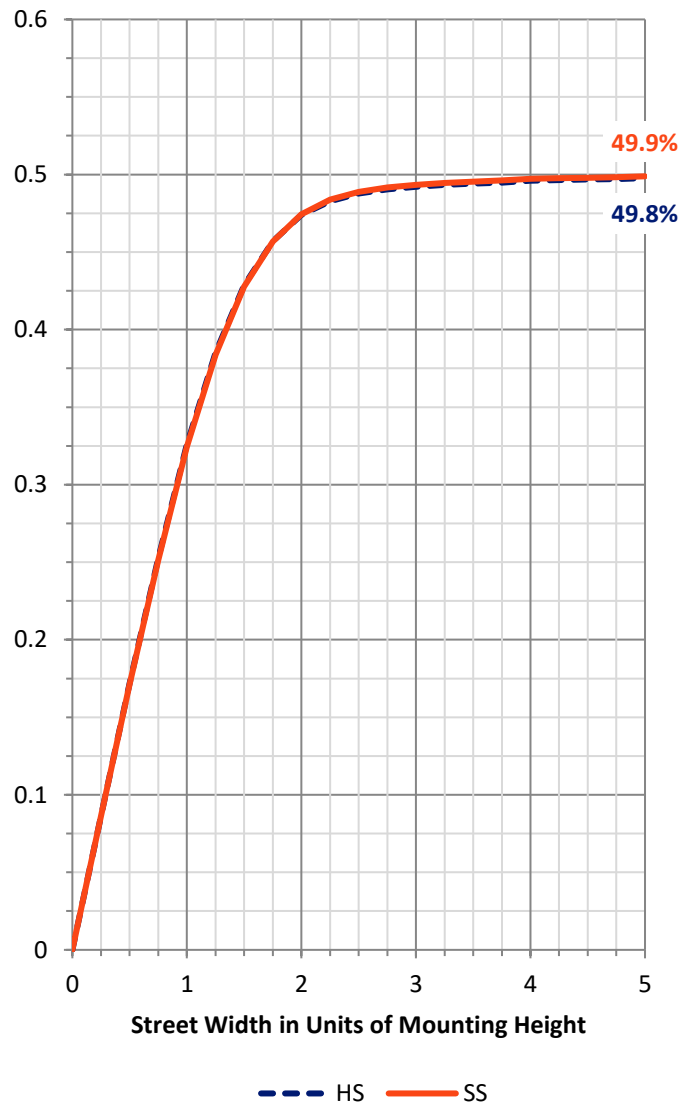
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	16492.7	0.0	16492.7
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	16492.7	0.0	16492.7
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	32985.5	0.0	32985.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	346.1	1.0
10°-20°	1141.6	3.5
20°-30°	2205.9	6.7
30°-40°	3724.7	11.3
40°-50°	5907.0	17.9
50°-60°	7908.8	24.0
60°-70°	7526.6	22.8
70°-80°	3927.5	11.9
80°-90°	297.3	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°	32985.5	100.0
0°-180°	32985.5	100.0

**Coefficient of Utilization**

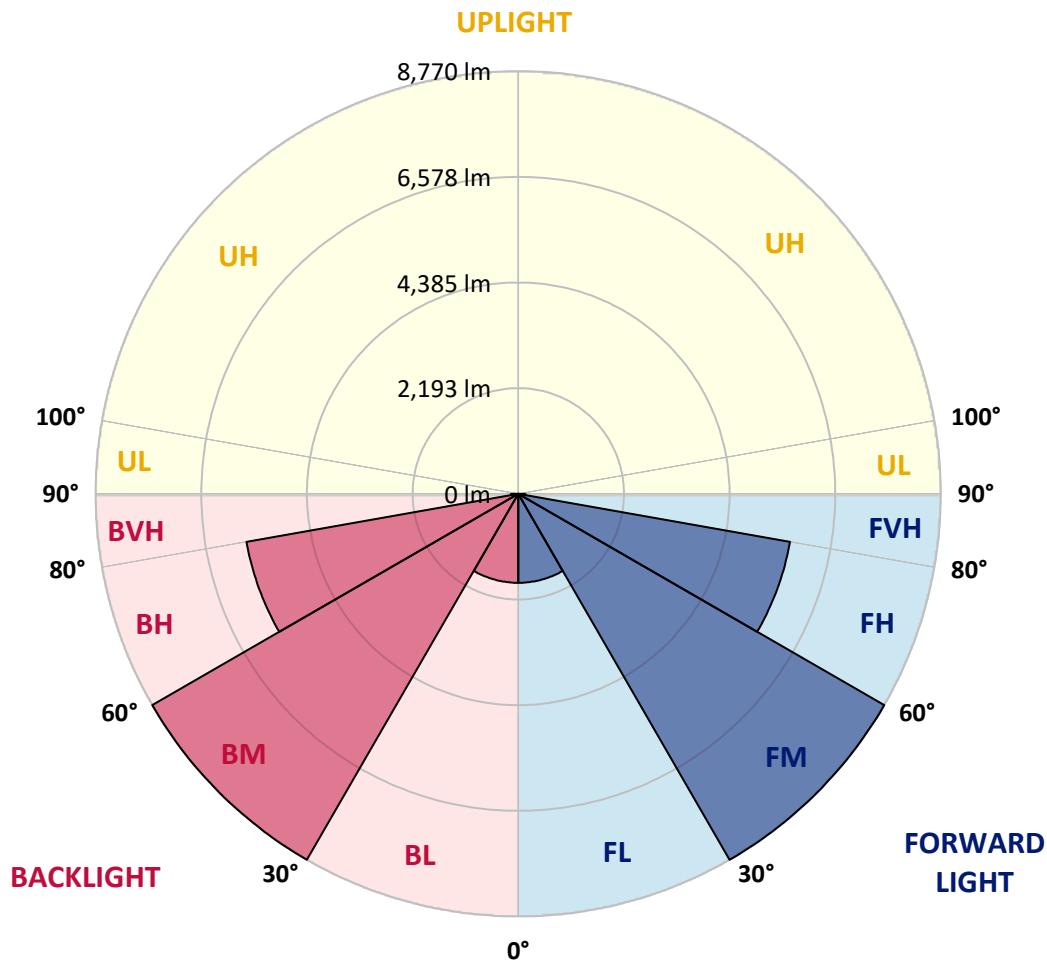


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1846.8	5.6			
FM (30°-60°)	8770.3	26.6			
FH (60°-80°)	5727.1	17.4			G3/7500
FVH (80°-90°)	148.6	0.5			G2/225
BL (0°-30°)	1846.8	5.6	B3/2500		
BM (30°-60°)	8770.3	26.6	B5		
BH (60°-80°)	5727.1	17.4	B5		G5
BVH (80°-90°)	148.6	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**  
 Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3533.4	3533.4	3533.4	3533.4	3533.4	3533.4	3533.4	3533.4	3533.4	3533.4	3533.4
2.5°	3533.4	3530.0	3533.4	3536.7	3535.0	3535.0	3543.4	3548.4	3558.6	3557.0	3555.2
5°	3509.8	3508.1	3521.6	3536.7	3548.4	3568.7	3594.0	3612.5	3636.1	3641.1	3641.1
7.5°	3498.0	3492.9	3516.5	3543.4	3580.5	3631.1	3679.9	3730.4	3770.8	3784.3	3787.7
10°	3506.4	3508.1	3540.0	3590.6	3649.5	3720.2	3789.3	3875.2	3932.5	3945.9	3959.5
12.5°	3545.2	3541.8	3595.7	3676.5	3757.3	3846.6	3927.4	4021.8	4084.0	4116.1	4129.5
15°	3615.9	3609.1	3684.9	3804.5	3922.4	4026.8	4092.5	4181.7	4254.2	4294.5	4309.7
17.5°	3700.0	3703.4	3802.9	3957.7	4112.7	4230.6	4292.9	4338.3	4394.0	4429.3	4446.1
20°	3848.3	3855.0	3966.1	4149.7	4326.5	4461.3	4511.8	4495.0	4510.1	4537.1	4557.3
22.5°	4047.0	4050.4	4175.0	4373.8	4559.0	4707.2	4740.8	4671.8	4629.7	4648.3	4661.7
25°	4277.7	4299.7	4424.2	4628.1	4818.3	4959.8	4974.9	4870.6	4766.1	4771.2	4779.6
27.5°	4559.0	4579.2	4705.5	4907.6	5101.3	5224.2	5222.6	5082.8	4929.5	4890.8	4902.6
30°	4863.8	4885.7	5015.4	5224.2	5404.4	5512.2	5488.7	5321.9	5103.0	5030.6	5039.0
32.5°	5225.9	5239.4	5370.8	5579.6	5746.4	5832.2	5783.4	5577.8	5305.1	5222.6	5242.8
35°	5663.7	5684.0	5781.7	5978.7	6125.2	6196.0	6113.4	5870.9	5564.4	5471.8	5485.3
37.5°	6163.9	6150.5	6261.6	6436.8	6558.1	6601.8	6489.0	6201.0	5860.8	5751.4	5771.6
40°	6686.1	6679.3	6800.6	6969.0	7034.7	7061.6	6894.9	6580.0	6202.7	6084.8	6123.6
42.5°	7159.3	7154.3	7317.6	7504.5	7583.7	7553.4	7342.9	6982.5	6598.4	6463.8	6497.5
45°	7538.3	7531.5	7731.9	7994.7	8149.6	8099.0	7816.1	7427.0	6999.3	6859.5	6891.5
47.5°	7829.6	7832.9	8048.5	8373.5	8644.7	8663.3	8299.4	7880.1	7440.6	7282.2	7329.4
50°	8040.1	8050.2	8281.0	8641.4	9011.9	9175.2	8793.0	8344.9	7897.0	7718.5	7772.4
52.5°	8092.4	8110.8	8388.7	8811.4	9247.7	9559.3	9294.8	8791.2	8329.8	8159.7	8203.5
55°	7814.4	7851.5	8203.5	8798.0	9392.5	9811.8	9736.1	9244.3	8766.0	8590.8	8639.6
57.5°	7176.1	7228.4	7639.3	8415.7	9360.5	9985.3	10077.9	9678.8	9202.1	9033.7	9072.5
60°	6281.9	6344.1	6738.2	7585.4	8909.1	10049.3	10318.8	10101.5	9603.0	9439.6	9475.0
62.5°	4932.9	5013.7	5485.3	6478.9	7955.9	9751.2	10524.2	10483.8	9963.4	9759.6	9783.2
65°	3164.5	3250.4	3747.2	4921.1	6684.3	8838.4	10588.2	10856.0	10344.0	10059.5	10094.8
67.5°	1908.1	1946.9	2192.8	2982.6	4885.7	7462.4	10045.9	11268.6	10788.6	10435.0	10462.0
70°	1221.0	1242.9	1389.4	1751.5	2762.0	5444.8	8701.9	11346.1	11327.6	10820.6	10817.2
72.5°	828.6	835.4	874.1	1037.4	1562.9	3093.8	6418.2	10271.6	11664.4	11317.4	11263.6
75°	606.3	643.4	705.6	734.3	887.5	1546.0	3678.2	7216.6	9830.4	9982.0	9614.8
77.5°	451.3	453.0	538.9	572.6	633.2	823.6	1556.2	4028.5	6103.4	6408.2	5716.0
80°	382.3	362.1	360.4	461.5	476.6	513.6	695.6	1391.1	2186.0	1325.4	1002.0
82.5°	318.3	296.4	267.7	360.4	325.0	315.0	301.5	565.9	695.6	341.8	291.4
85°	222.3	212.2	202.1	235.7	185.2	158.3	144.8	264.4	293.0	144.8	128.0
87.5°	96.0	99.3	101.1	104.4	77.5	55.6	55.6	74.1	74.1	57.3	42.1
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)