

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: P967097

Luminaire Tested: **NAV-SB4D-722-U-RW**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P967097  
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-SB4D-722-U-RW  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR  
WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 35560.3 lumens  
Efficiency: N/A  
Efficacy: 121.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B5 - U0 - G5

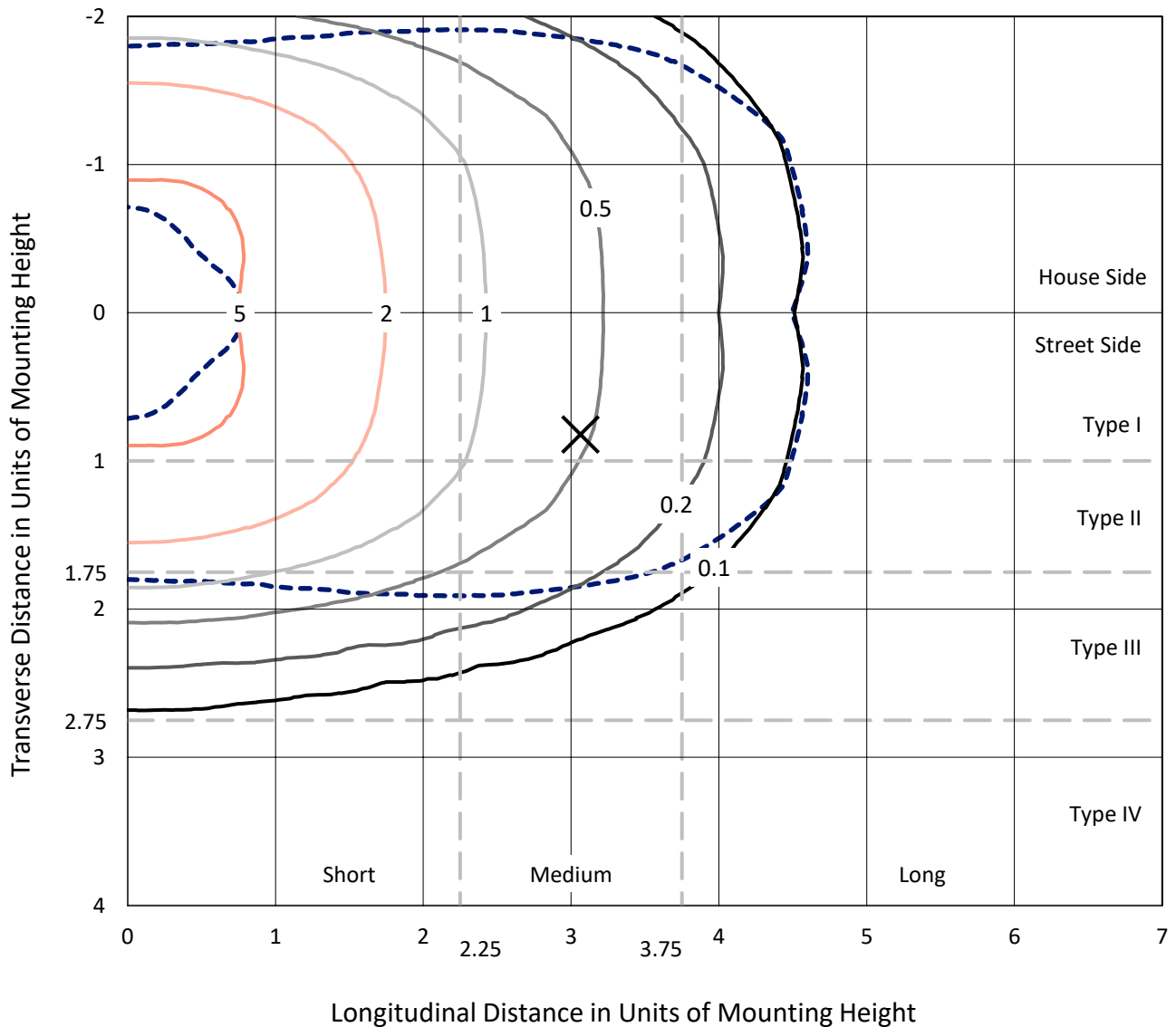
Input Watts (W): 293.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

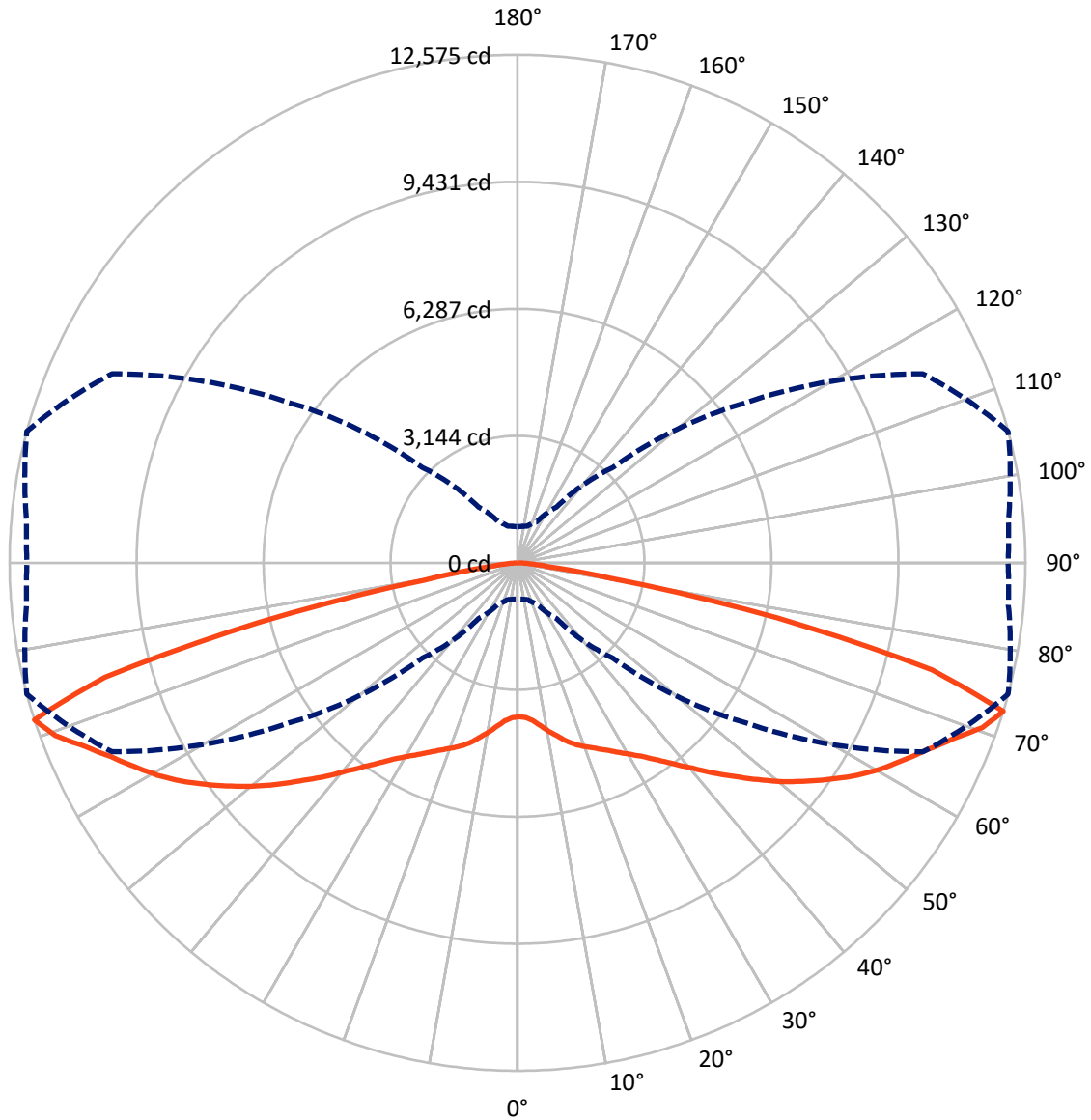
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 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	17780.2	0.0	17780.2
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	17780.2	0.0	17780.2
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	35560.3	0.0	35560.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	373.1	1.0
10°-20°	1230.7	3.5
20°-30°	2378.0	6.7
30°-40°	4015.5	11.3
40°-50°	6368.1	17.9
50°-60°	8526.1	24.0
60°-70°	8114.1	22.8
70°-80°	4234.1	11.9
80°-90°	320.5	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°	35560.3	100.0
0°-180°	35560.3	100.0

**Coefficient of Utilization**

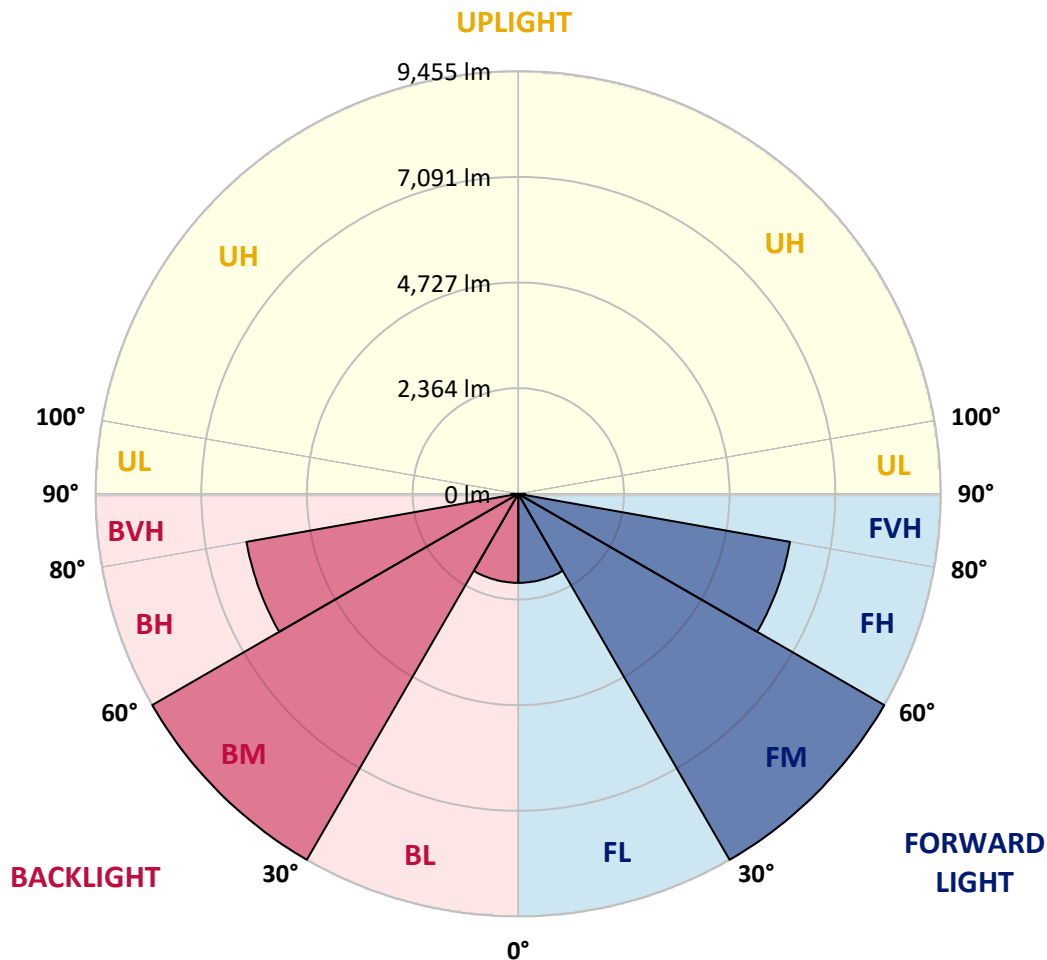


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1990.9	5.6			
FM (30°-60°)	9454.8	26.6			
FH (60°-80°)	6174.1	17.4			G3/7500
FVH (80°-90°)	160.3	0.5			G2/225
BL (0°-30°)	1990.9	5.6	B3/2500		
BM (30°-60°)	9454.8	26.6	B5		
BH (60°-80°)	6174.1	17.4	B5		G5
BVH (80°-90°)	160.3	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°	3809.1	3809.1	3809.1	3809.1	3809.1	3809.1	3809.1	3809.1	3809.1	3809.1	3809.1
2.5°	3809.1	3805.5	3809.1	3812.8	3811.0	3811.0	3820.1	3825.5	3836.4	3834.5	3832.8
5°	3783.7	3781.9	3796.4	3812.8	3825.5	3847.2	3874.5	3894.5	3919.9	3925.3	3925.3
7.5°	3771.0	3765.5	3791.0	3820.1	3859.9	3914.5	3967.1	4021.6	4065.2	4079.7	4083.3
10°	3780.1	3781.9	3816.4	3870.9	3934.5	4010.7	4085.1	4177.7	4239.4	4254.0	4268.5
12.5°	3821.8	3818.2	3876.3	3963.5	4050.6	4146.8	4234.0	4335.6	4402.9	4437.3	4451.9
15°	3898.1	3890.9	3972.6	4101.4	4228.5	4341.1	4411.9	4508.2	4586.3	4629.8	4646.1
17.5°	3988.9	3992.5	4099.7	4266.7	4433.7	4560.8	4628.0	4677.0	4736.9	4775.1	4793.2
20°	4148.7	4156.0	4275.8	4473.6	4664.3	4809.5	4864.0	4845.9	4862.2	4891.3	4913.0
22.5°	4362.9	4366.5	4500.9	4715.1	4914.9	5074.7	5111.0	5036.5	4991.1	5011.1	5025.6
25°	4611.7	4635.3	4769.6	4989.3	5194.5	5347.0	5363.3	5250.8	5138.2	5143.7	5152.7
27.5°	4914.9	4936.6	5072.8	5290.6	5499.4	5632.1	5630.2	5479.5	5314.3	5272.5	5285.2
30°	5243.5	5267.1	5406.9	5632.1	5826.3	5942.4	5917.1	5737.3	5501.3	5423.2	5432.3
32.5°	5633.8	5648.4	5790.0	6015.1	6194.9	6287.5	6234.8	6013.3	5719.2	5630.2	5652.0
35°	6105.9	6127.7	6233.0	6445.4	6603.4	6679.6	6590.6	6329.2	5998.8	5898.9	5913.4
37.5°	6645.2	6630.6	6750.4	6939.2	7069.9	7117.2	6995.5	6685.0	6318.3	6200.3	6222.1
40°	7208.0	7200.7	7331.4	7512.9	7583.8	7612.9	7433.1	7093.6	6686.9	6559.8	6601.5
42.5°	7718.1	7712.7	7888.8	8090.3	8175.7	8143.0	7916.1	7527.5	7113.6	6968.3	7004.6
45°	8126.7	8119.4	8335.5	8618.7	8785.7	8731.3	8426.2	8006.8	7545.6	7395.0	7429.5
47.5°	8440.8	8444.4	8676.8	9027.2	9319.5	9339.5	8947.3	8495.2	8021.3	7850.7	7901.5
50°	8667.7	8678.6	8927.3	9315.9	9715.4	9891.5	9479.3	8996.3	8513.3	8320.9	8379.1
52.5°	8724.0	8744.0	9043.6	9499.3	9969.5	10305.3	10020.3	9477.5	8980.0	8796.7	8843.8
55°	8424.5	8464.3	8843.8	9484.7	10125.7	10577.7	10496.0	9965.9	9450.3	9261.4	9314.1
57.5°	7736.3	7792.6	8235.6	9072.6	10091.1	10764.8	10864.6	10434.3	9920.5	9738.9	9780.7
60°	6772.2	6839.4	7264.3	8177.6	9604.6	10833.7	11124.2	10890.0	10352.6	10176.5	10214.6
62.5°	5317.9	5405.0	5913.4	6984.7	8576.9	10512.4	11345.7	11302.2	10741.2	10521.4	10546.8
65°	3411.5	3504.2	4039.7	5305.2	7206.2	9528.3	11414.7	11703.4	11151.5	10844.6	10882.7
67.5°	2057.1	2098.9	2364.0	3215.4	5267.1	8044.9	10830.2	12148.2	11630.8	11249.5	11278.6
70°	1316.3	1339.9	1497.8	1888.3	2977.6	5869.9	9381.2	12231.7	12211.7	11665.3	11661.6
72.5°	893.3	900.6	942.3	1118.4	1684.9	3335.2	6919.3	11073.4	12574.9	12200.9	12142.8
75°	653.6	693.5	760.8	791.6	956.8	1666.8	3965.3	7779.9	10597.7	10761.1	10365.3
77.5°	486.6	488.4	581.0	617.4	682.6	887.9	1677.6	4342.9	6579.8	6908.4	6162.2
80°	412.2	390.3	388.6	497.4	513.8	553.8	749.9	1499.7	2356.7	1428.8	1080.2
82.5°	343.2	319.6	288.6	388.6	350.4	339.5	325.0	610.1	749.9	368.6	314.1
85°	239.6	228.8	217.9	254.2	199.7	170.7	156.1	285.1	315.9	156.1	138.0
87.5°	103.5	107.1	109.0	112.5	83.5	60.0	60.0	79.8	79.8	61.7	45.4
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)