

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: P964989

Luminaire Tested: **NAV-SB3D-722-U-RW**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P964989  
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-SB3D-722-U-RW  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 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: 26621.3 lumens  
Efficiency: N/A  
Efficacy: 122.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B4 - U0 - G4

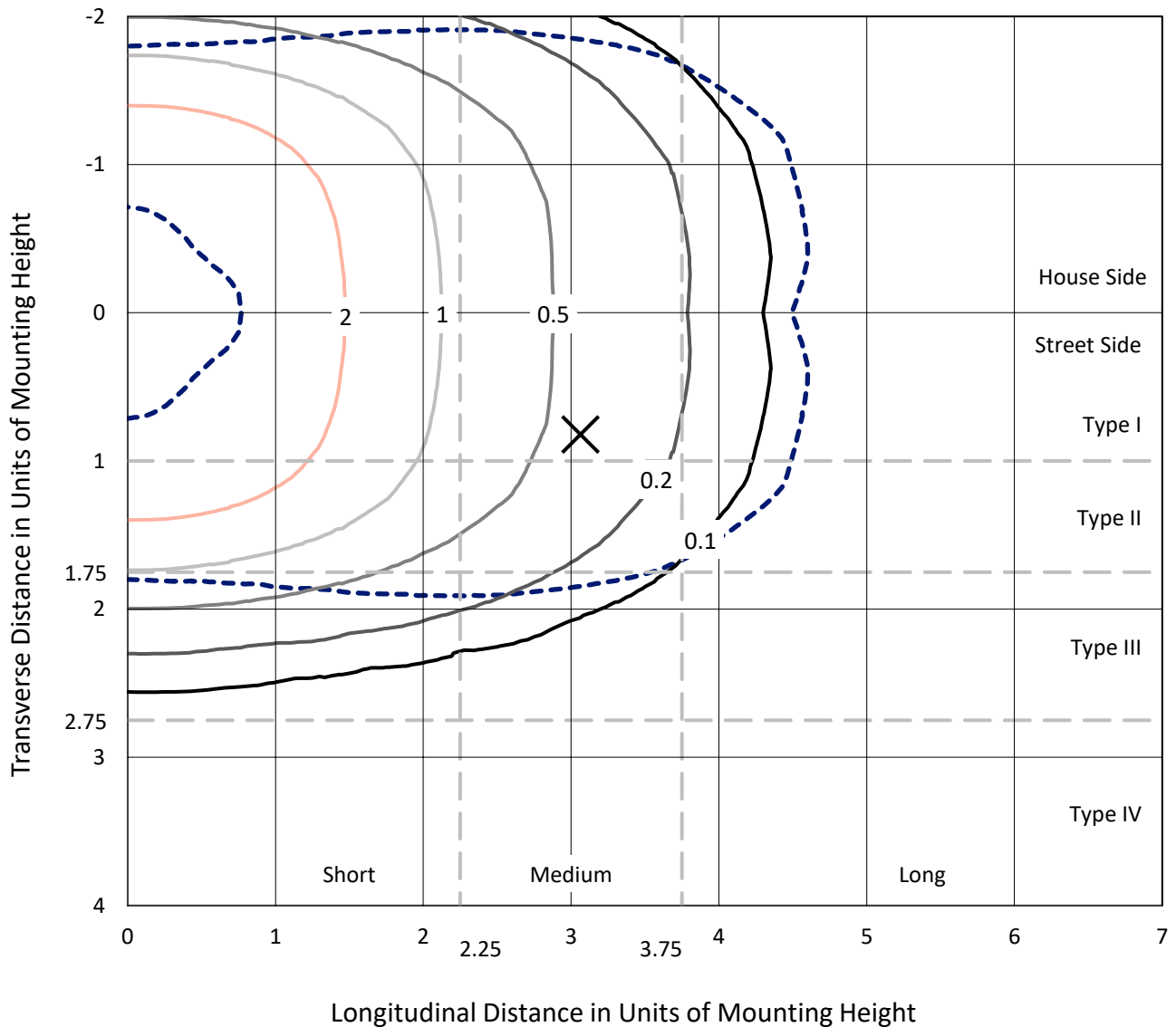
Input Watts (W): 218.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

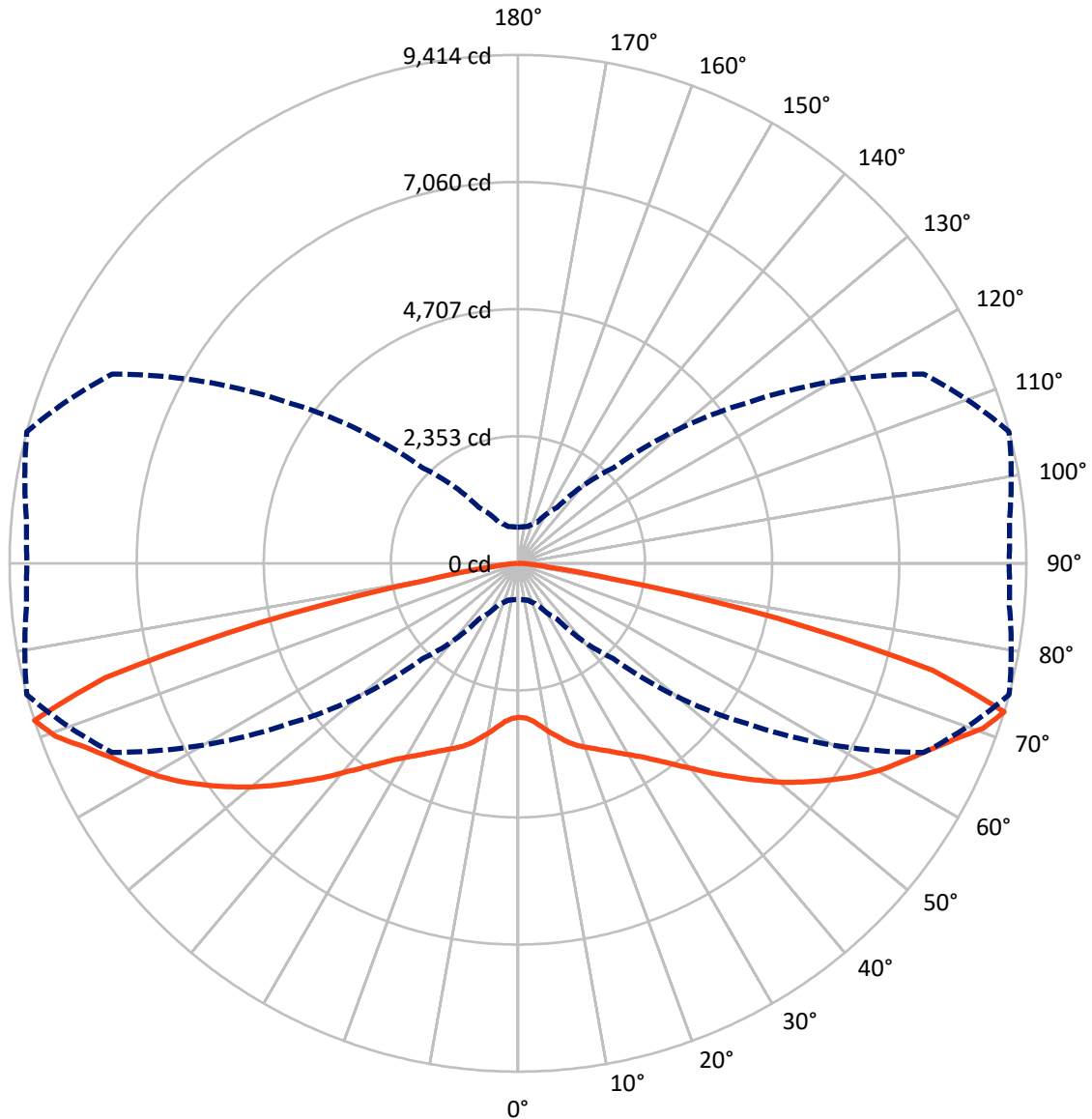
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 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	13310.6	0.0	13310.6
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	13310.6	0.0	13310.6
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	26621.3	0.0	26621.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	279.3	1.0
10°-20°	921.3	3.5
20°-30°	1780.3	6.7
30°-40°	3006.1	11.3
40°-50°	4767.3	17.9
50°-60°	6382.9	24.0
60°-70°	6074.4	22.8
70°-80°	3169.7	11.9
80°-90°	239.9	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°	26621.3	100.0
0°-180°	26621.3	100.0

**Coefficient of Utilization**



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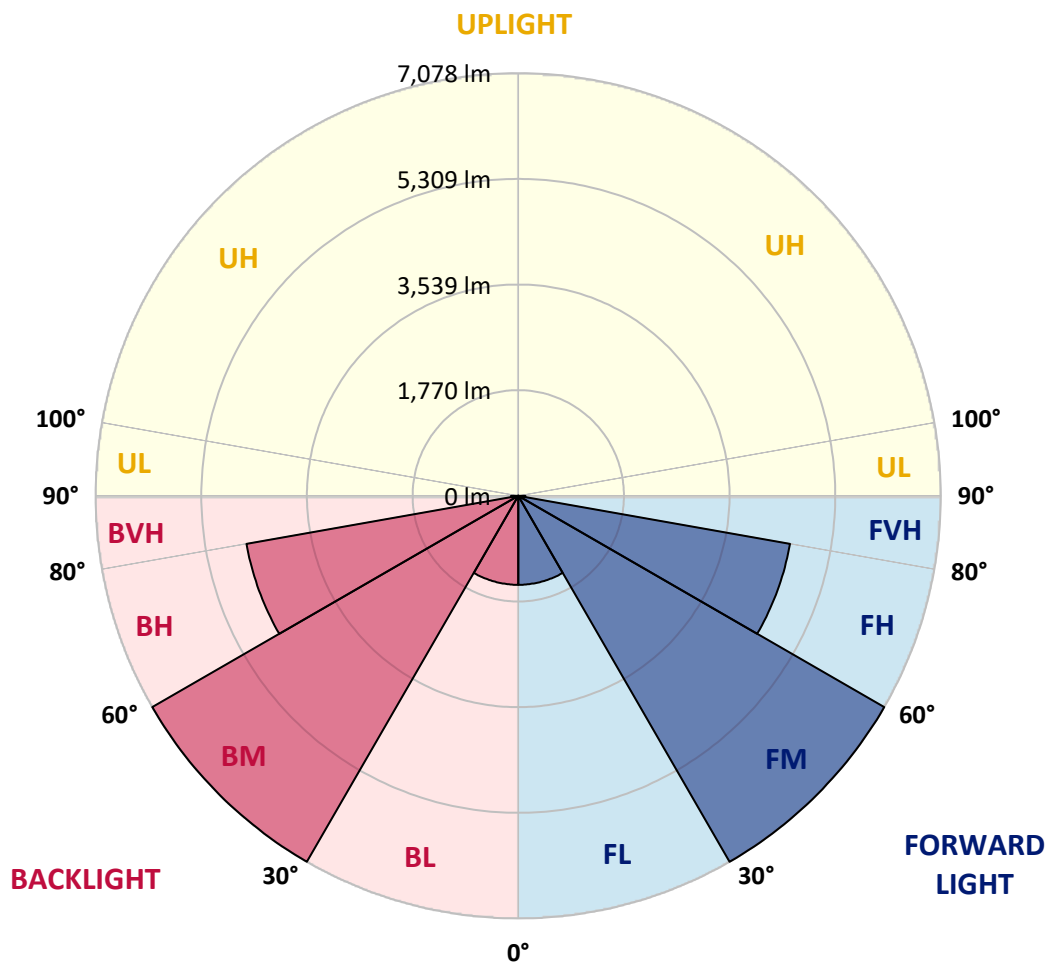
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1490.5	5.6			
FM (30°-60°)	7078.1	26.6			
FH (60°-80°)	4622.1	17.4			G2/5000
FVH (80°-90°)	120.0	0.5			G2/225
BL (0°-30°)	1490.5	5.6	B3/2500		
BM (30°-60°)	7078.1	26.6	B4/8500		
BH (60°-80°)	4622.1	17.4	B4/5000		G4/5000
BVH (80°-90°)	120.0	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2851.7	2851.7	2851.7	2851.7	2851.7	2851.7	2851.7	2851.7	2851.7	2851.7	2851.7
2.5°	2851.7	2848.9	2851.7	2854.3	2853.0	2853.0	2859.7	2863.8	2872.0	2870.6	2869.3
5°	2832.6	2831.3	2842.1	2854.3	2863.8	2880.1	2900.5	2915.5	2934.6	2938.6	2938.6
7.5°	2823.1	2819.0	2838.0	2859.7	2889.7	2930.5	2969.8	3010.6	3043.2	3054.1	3056.9
10°	2829.8	2831.3	2857.1	2897.9	2945.4	3002.5	3058.2	3127.6	3173.7	3184.6	3195.5
12.5°	2861.1	2858.4	2901.9	2967.2	3032.4	3104.4	3169.7	3245.8	3296.1	3321.9	3332.8
15°	2918.2	2912.7	2973.9	3070.5	3165.6	3249.9	3302.9	3374.9	3433.3	3465.9	3478.2
17.5°	2986.1	2988.9	3069.1	3194.1	3319.2	3414.4	3464.6	3501.3	3546.2	3574.7	3588.3
20°	3105.7	3111.2	3201.0	3349.1	3491.8	3600.5	3641.3	3627.7	3640.0	3661.7	3678.0
22.5°	3266.2	3268.9	3369.5	3529.9	3679.3	3799.0	3826.1	3770.5	3736.4	3751.4	3762.3
25°	3452.4	3470.0	3570.6	3735.1	3888.6	4002.8	4015.1	3930.9	3846.5	3850.6	3857.4
27.5°	3679.3	3695.6	3797.6	3960.7	4117.0	4216.2	4214.9	4102.0	3978.4	3947.2	3956.6
30°	3925.4	3943.1	4047.7	4216.2	4361.7	4448.7	4429.6	4295.1	4118.4	4059.9	4066.8
32.5°	4217.7	4228.5	4334.5	4503.0	4637.6	4706.9	4667.5	4501.7	4281.5	4214.9	4231.2
35°	4571.0	4587.3	4666.2	4825.2	4943.5	5000.6	4933.9	4738.2	4490.8	4416.1	4427.0
37.5°	4974.7	4963.9	5053.6	5194.9	5292.8	5328.1	5237.0	5004.6	4730.1	4641.7	4658.0
40°	5396.0	5390.6	5488.5	5624.4	5677.4	5699.2	5564.6	5310.4	5006.0	4910.8	4942.0
42.5°	5778.0	5773.9	5905.7	6056.6	6120.5	6096.1	5926.1	5635.2	5325.4	5216.6	5243.8
45°	6083.8	6078.4	6240.1	6452.2	6577.2	6536.4	6308.1	5994.1	5648.9	5536.0	5561.9
47.5°	6318.9	6321.7	6495.6	6758.0	6976.8	6991.7	6698.2	6359.7	6005.0	5877.2	5915.3
50°	6488.9	6497.0	6683.2	6974.1	7273.1	7405.0	7096.4	6734.9	6373.3	6229.2	6272.7
52.5°	6531.0	6546.0	6770.2	7111.3	7463.4	7714.9	7501.5	7095.0	6722.7	6585.3	6620.7
55°	6306.7	6336.7	6620.7	7100.5	7580.3	7918.7	7857.5	7460.7	7074.7	6933.3	6972.8
57.5°	5791.6	5833.7	6165.4	6792.0	7554.5	8058.8	8133.5	7811.3	7426.7	7290.8	7322.1
60°	5069.9	5120.2	5438.2	6121.9	7190.2	8110.4	8327.8	8152.5	7750.2	7618.3	7646.9
62.5°	3981.1	4046.4	4427.0	5228.8	6420.9	7869.8	8493.7	8461.1	8041.0	7876.6	7895.7
65°	2554.0	2623.3	3024.3	3971.6	5394.7	7133.1	8545.3	8761.5	8348.2	8118.5	8147.1
67.5°	1540.0	1571.2	1769.7	2407.1	3943.1	6022.7	8107.6	9094.4	8707.1	8421.6	8443.4
70°	985.4	1003.1	1121.4	1413.6	2229.1	4394.3	7023.0	9156.9	9142.1	8732.9	8730.2
72.5°	668.7	674.1	705.4	837.3	1261.4	2496.9	5179.9	8289.8	9413.9	9133.9	9090.4
75°	489.3	519.3	569.5	592.7	716.3	1247.7	2968.5	5824.3	7933.7	8056.0	7759.8
77.5°	364.3	365.6	434.9	462.2	511.1	664.6	1255.9	3251.2	4925.7	5171.7	4613.1
80°	308.5	292.2	290.9	372.4	384.7	414.5	561.4	1122.7	1764.2	1069.7	808.7
82.5°	256.9	239.2	216.1	290.9	262.3	254.2	243.3	456.7	561.4	275.9	235.1
85°	179.4	171.3	163.1	190.2	149.5	127.7	116.8	213.4	236.5	116.8	103.3
87.5°	77.5	80.2	81.6	84.3	62.5	44.9	44.9	59.8	59.8	46.2	34.0
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)