

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: P970259

Luminaire Tested: **NAV-SB6B-722-U-RW**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P970259  
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-SB6B-722-U-RW  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR  
WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29774.2 lumens  
Efficiency: N/A  
Efficacy: 135.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B5 - U0 - G5

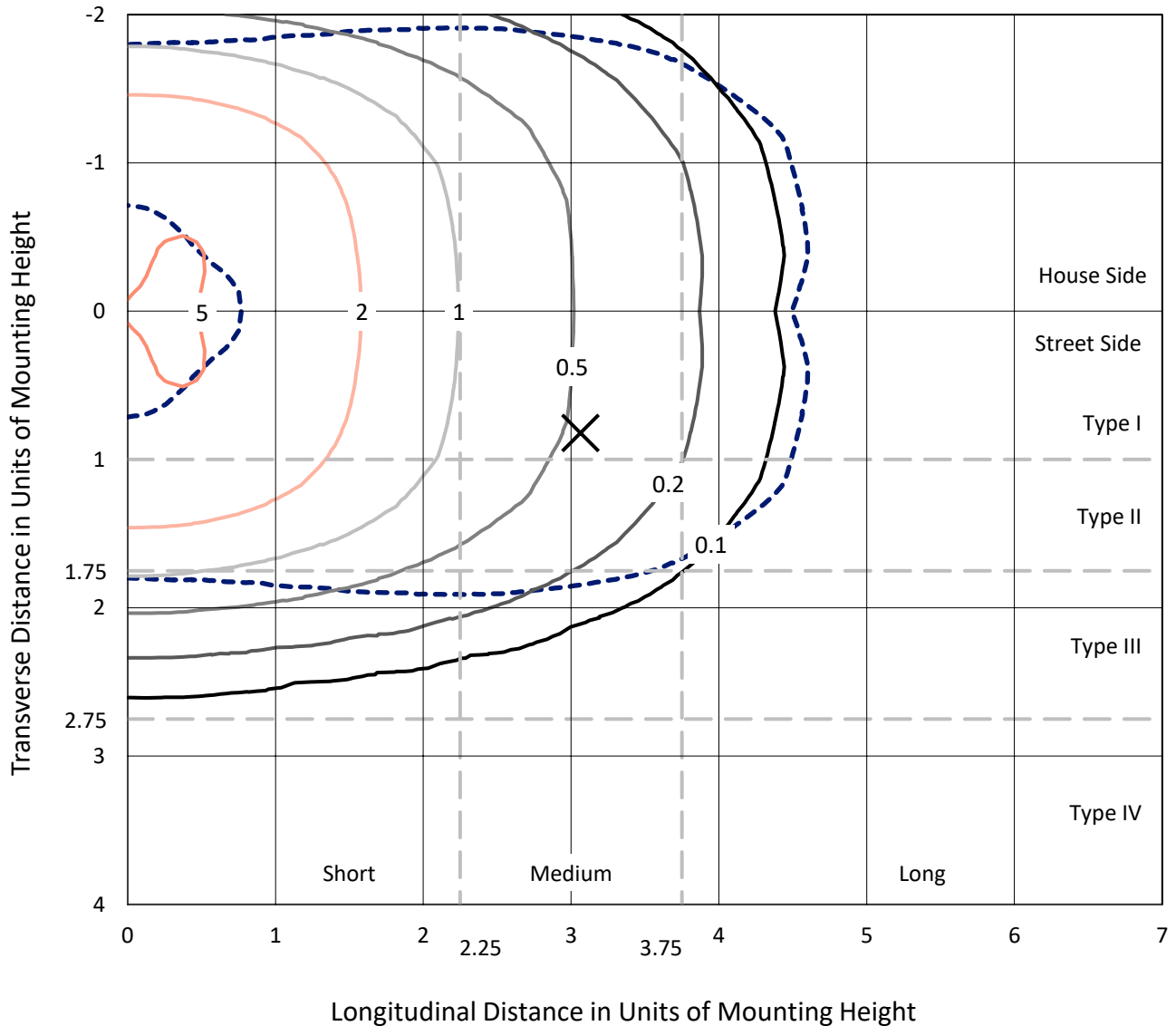
Input Watts (W): 220.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

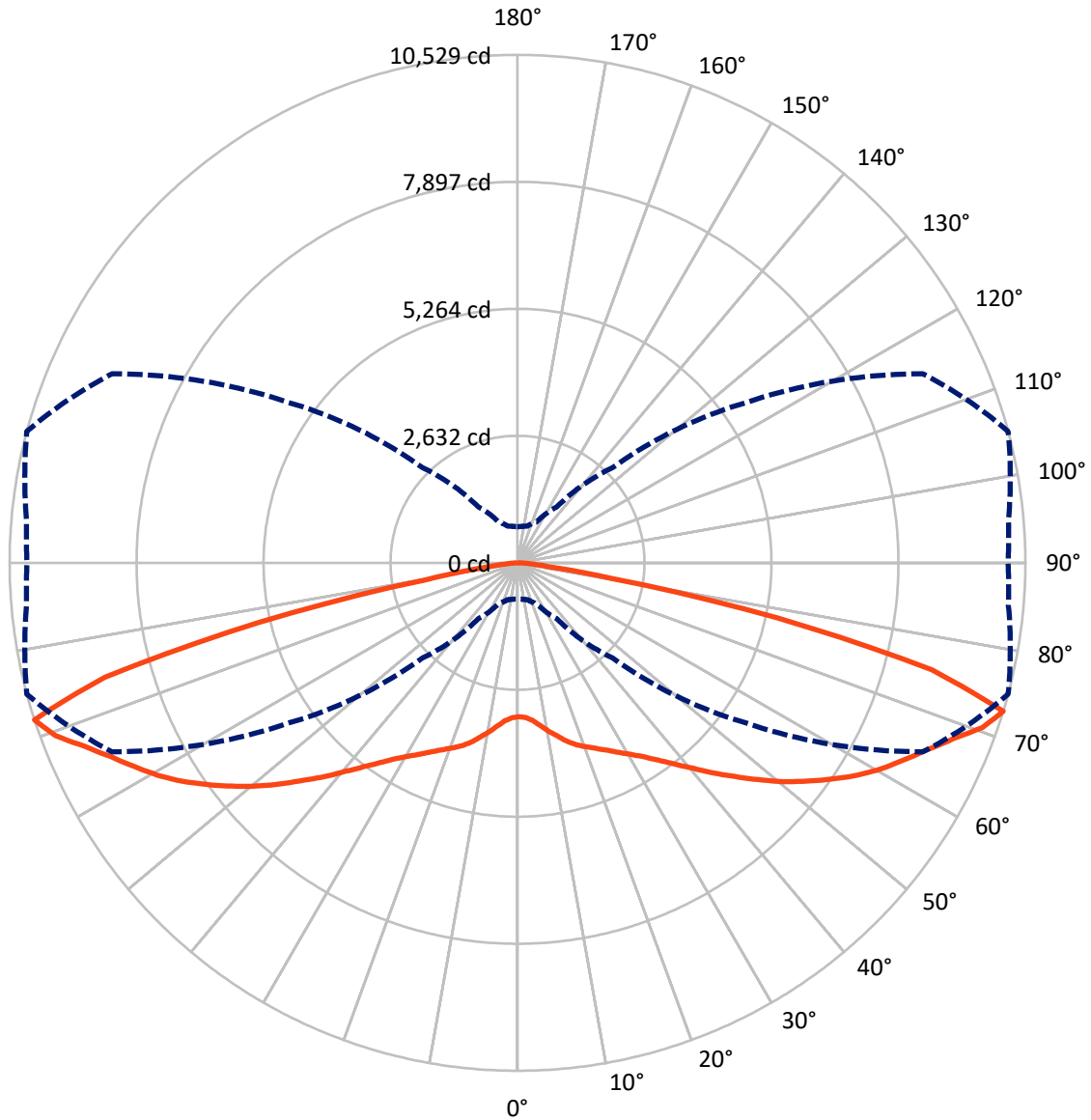
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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	14887.1	0.0	14887.1
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	14887.1	0.0	14887.1
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	29774.2	0.0	29774.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	312.4	1.0
10°-20°	1030.4	3.5
20°-30°	1991.1	6.7
30°-40°	3362.1	11.3
40°-50°	5331.9	17.9
50°-60°	7138.8	24.0
60°-70°	6793.9	22.8
70°-80°	3545.2	11.9
80°-90°	268.3	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°	29774.2	100.0
0°-180°	29774.2	100.0

**Coefficient of Utilization**

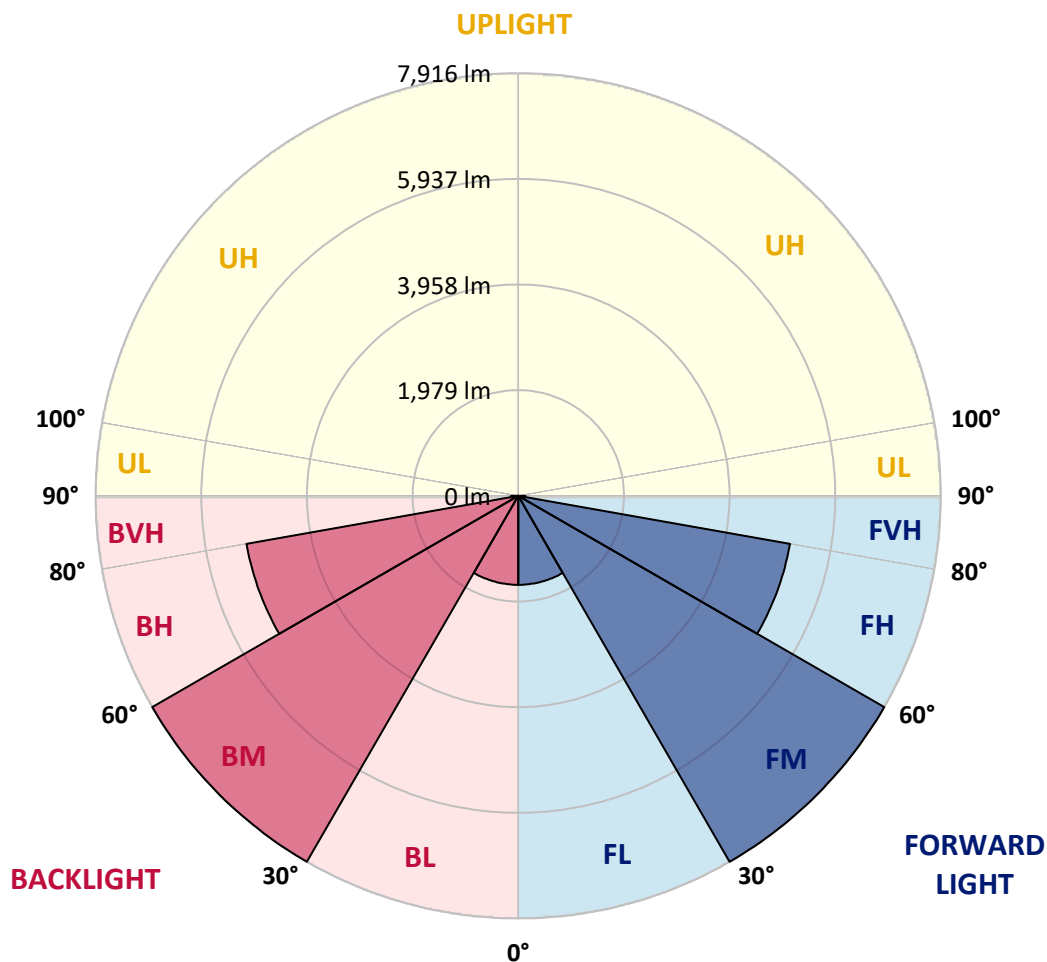


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1667.0	5.6			
FM (30°-60°)	7916.4	26.6			
FH (60°-80°)	5169.5	17.4			G3/7500
FVH (80°-90°)	134.2	0.5			G2/225
BL (0°-30°)	1667.0	5.6	B3/2500		
BM (30°-60°)	7916.4	26.6	B4/8500		
BH (60°-80°)	5169.5	17.4	B5		G5
BVH (80°-90°)	134.2	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°	3189.4	3189.4	3189.4	3189.4	3189.4	3189.4	3189.4	3189.4	3189.4	3189.4	3189.4
2.5°	3189.4	3186.3	3189.4	3192.4	3190.8	3190.8	3198.5	3203.0	3212.1	3210.6	3209.1
5°	3168.1	3166.5	3178.7	3192.4	3203.0	3221.3	3244.1	3260.8	3282.0	3286.7	3286.7
7.5°	3157.4	3152.9	3174.1	3198.5	3231.9	3277.5	3321.6	3367.2	3403.7	3415.8	3418.9
10°	3165.0	3166.5	3195.4	3241.0	3294.2	3358.1	3420.4	3497.9	3549.7	3561.8	3574.0
12.5°	3199.9	3197.0	3245.6	3318.5	3391.5	3472.1	3545.1	3630.2	3686.4	3715.3	3727.5
15°	3263.8	3257.8	3326.1	3434.1	3540.6	3634.8	3694.1	3774.7	3840.0	3876.4	3890.2
17.5°	3339.9	3342.9	3432.6	3572.4	3712.2	3818.7	3874.9	3916.0	3966.1	3998.1	4013.3
20°	3473.6	3479.7	3580.0	3745.8	3905.4	4027.0	4072.5	4057.4	4071.1	4095.4	4113.6
22.5°	3653.0	3656.1	3768.5	3947.9	4115.2	4248.9	4279.3	4217.0	4179.0	4195.7	4207.8
25°	3861.3	3881.1	3993.5	4177.5	4349.3	4477.0	4490.6	4396.3	4302.1	4306.6	4314.3
27.5°	4115.2	4133.4	4247.4	4429.8	4604.6	4715.6	4714.1	4587.9	4449.6	4414.6	4425.2
30°	4390.3	4410.1	4527.1	4715.6	4878.3	4975.6	4954.2	4803.8	4606.1	4540.8	4548.4
32.5°	4717.2	4729.2	4847.8	5036.3	5186.9	5264.4	5220.3	5034.9	4788.6	4714.1	4732.3
35°	5112.4	5130.6	5218.8	5396.6	5529.0	5592.8	5518.3	5299.4	5022.7	4939.1	4951.3
37.5°	5563.9	5551.7	5652.1	5810.1	5919.6	5959.1	5857.3	5597.3	5290.2	5191.4	5209.7
40°	6035.1	6029.0	6138.5	6290.5	6349.8	6374.2	6223.6	5939.4	5598.9	5492.5	5527.4
42.5°	6462.3	6457.7	6605.2	6773.9	6845.4	6818.0	6628.1	6302.7	5956.1	5834.5	5864.8
45°	6804.4	6798.3	6979.1	7216.3	7356.2	7310.6	7055.2	6704.0	6317.9	6191.7	6220.6
47.5°	7067.4	7070.3	7265.0	7558.4	7803.1	7819.8	7491.5	7113.0	6716.2	6573.3	6615.9
50°	7257.4	7266.5	7474.7	7800.0	8134.5	8282.0	7936.9	7532.5	7128.2	6967.0	7015.6
52.5°	7304.5	7321.2	7572.1	7953.6	8347.3	8628.6	8389.9	7935.3	7518.9	7365.3	7404.8
55°	7053.6	7087.1	7404.8	7941.5	8478.1	8856.6	8788.1	8344.3	7912.6	7754.4	7798.5
57.5°	6477.5	6524.6	6895.6	7596.4	8449.2	9013.1	9096.8	8736.5	8306.3	8154.3	8189.2
60°	5670.3	5726.6	6082.2	6846.9	8041.7	9070.9	9314.2	9118.1	8668.1	8520.6	8552.6
62.5°	4452.6	4525.6	4951.3	5848.1	7181.4	8801.9	9499.6	9463.1	8993.5	8809.5	8830.8
65°	2856.5	2934.0	3382.4	4441.9	6033.7	7978.0	9557.4	9799.1	9336.9	9080.1	9111.9
67.5°	1722.4	1757.4	1979.3	2692.3	4410.1	6736.0	9067.9	10171.6	9738.3	9419.0	9443.4
70°	1102.2	1121.9	1254.2	1581.0	2493.1	4914.8	7854.8	10241.5	10224.8	9767.2	9764.2
72.5°	747.9	754.0	788.9	936.4	1410.7	2792.6	5793.4	9271.6	10528.8	10215.7	10167.0
75°	547.2	580.7	636.9	662.8	801.1	1395.5	3320.1	6514.0	8873.3	9010.2	8678.8
77.5°	407.4	409.0	486.5	516.9	571.5	743.3	1404.7	3636.3	5509.2	5784.3	5159.5
80°	345.1	326.9	325.3	416.6	430.2	463.6	627.8	1255.6	1973.2	1196.4	904.5
82.5°	287.3	267.5	241.7	325.3	293.4	284.2	272.1	510.8	627.8	308.6	263.0
85°	200.7	191.6	182.4	212.8	167.2	142.9	130.7	238.6	264.6	130.7	115.5
87.5°	86.6	89.7	91.2	94.3	69.9	50.1	50.1	66.9	66.9	51.7	38.0
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)