

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: P970290

Luminaire Tested: **NAV-SB6B-727-U-RW**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P970290  
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-727-U-RW  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR  
WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33430.4 lumens  
Efficiency: N/A  
Efficacy: 151.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B5 - U0 - G5

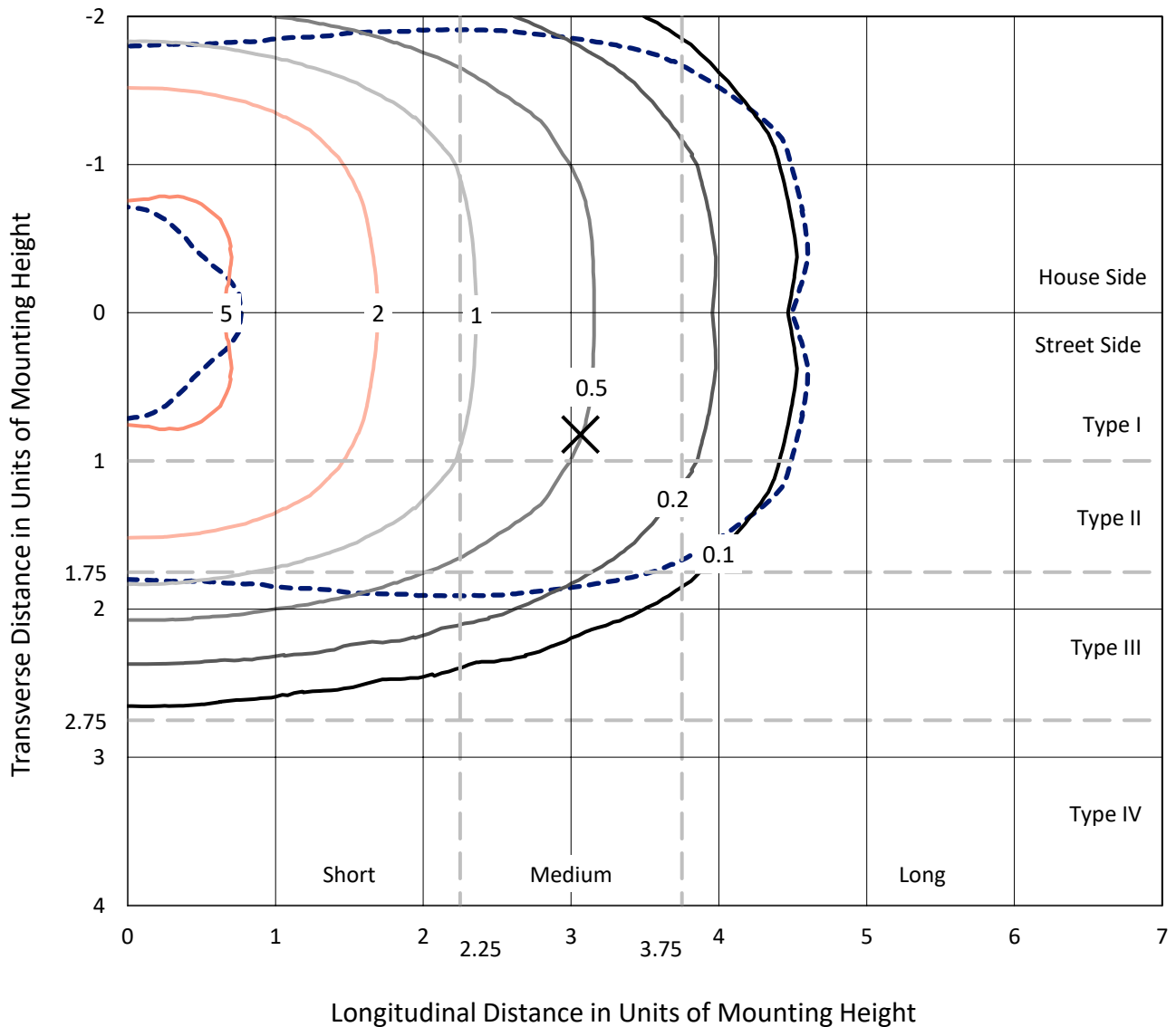
Input Watts (W): 220.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

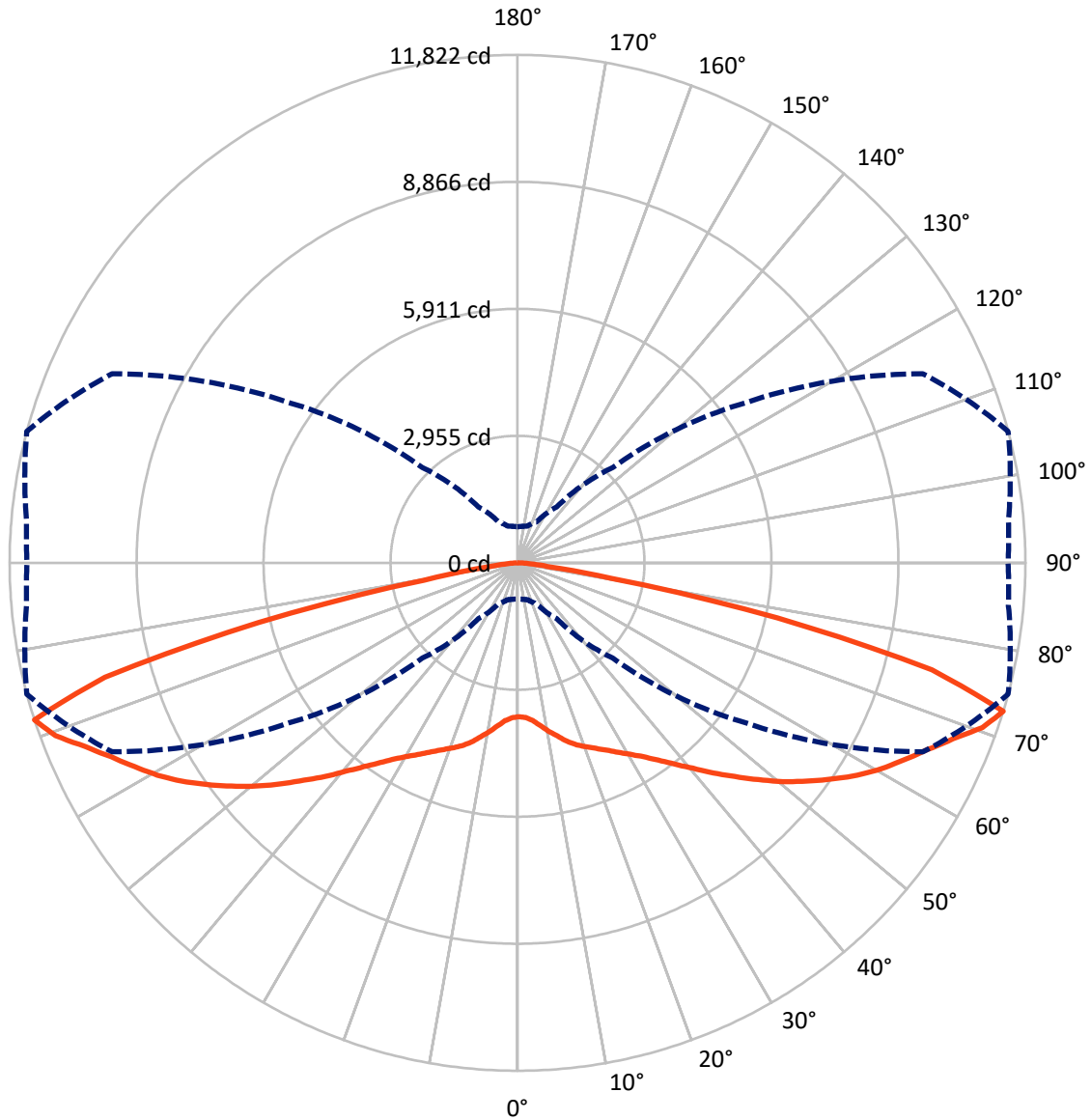
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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	16715.2	0.0	16715.2
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	16715.2	0.0	16715.2
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	33430.4	0.0	33430.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	350.8	1.0
10°-20°	1157.0	3.5
20°-30°	2235.6	6.7
30°-40°	3775.0	11.3
40°-50°	5986.7	17.9
50°-60°	8015.4	24.0
60°-70°	7628.1	22.8
70°-80°	3980.5	11.9
80°-90°	301.3	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°	33430.4	100.0
0°-180°	33430.4	100.0

**Coefficient of Utilization**

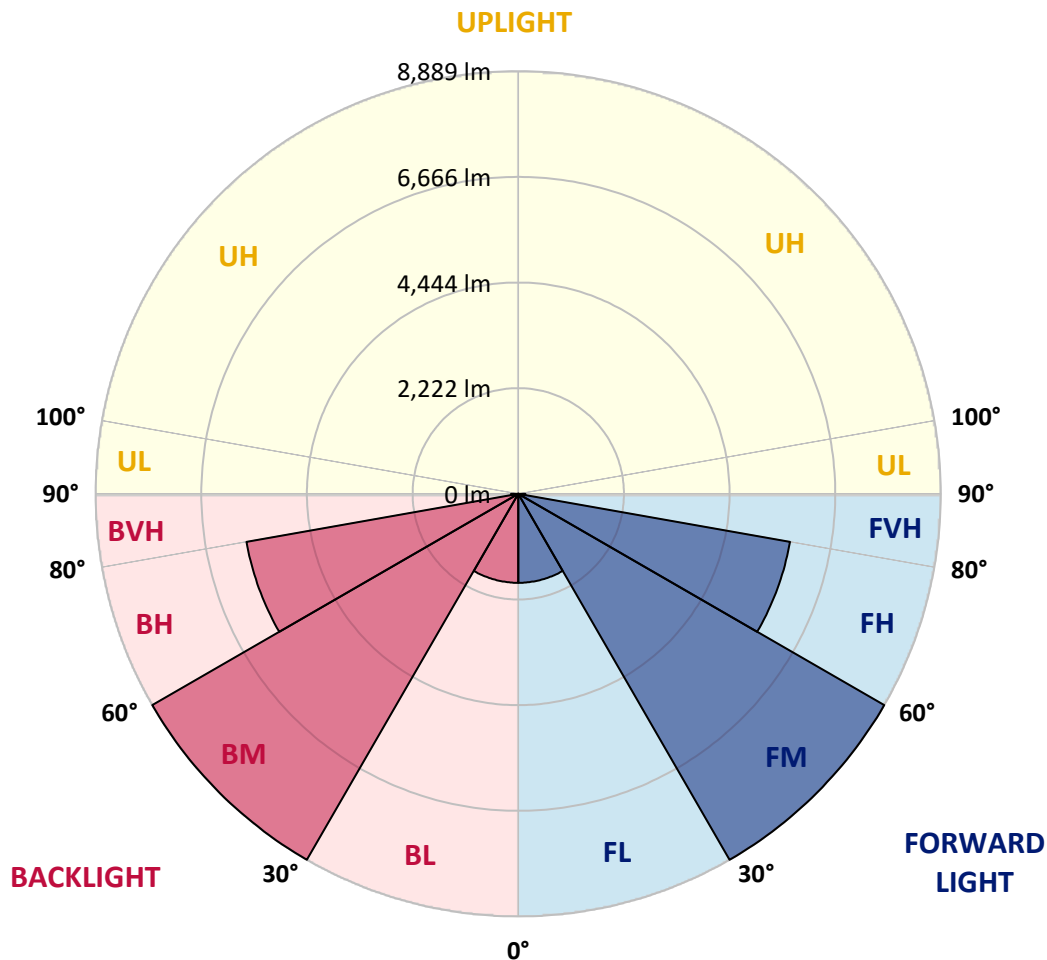


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1871.7	5.6			
FM (30°-60°)	8888.5	26.6			
FH (60°-80°)	5804.3	17.4			G3/7500
FVH (80°-90°)	150.6	0.5			G2/225
BL (0°-30°)	1871.7	5.6	B3/2500		
BM (30°-60°)	8888.5	26.6	B5		
BH (60°-80°)	5804.3	17.4	B5		G5
BVH (80°-90°)	150.6	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°	3581.0	3581.0	3581.0	3581.0	3581.0	3581.0	3581.0	3581.0	3581.0	3581.0	3581.0
2.5°	3581.0	3577.6	3581.0	3584.4	3582.7	3582.7	3591.2	3596.3	3606.6	3604.9	3603.2
5°	3557.1	3555.4	3569.0	3584.4	3596.3	3616.8	3642.4	3661.2	3685.1	3690.2	3690.2
7.5°	3545.2	3540.0	3563.9	3591.2	3628.8	3680.0	3729.5	3780.7	3821.6	3835.3	3838.7
10°	3553.7	3555.4	3587.8	3639.1	3698.8	3770.5	3840.5	3927.5	3985.5	3999.1	4012.9
12.5°	3592.9	3589.6	3644.2	3726.1	3808.0	3898.5	3980.4	4076.0	4139.2	4171.5	4185.2
15°	3664.6	3657.8	3734.6	3855.8	3975.3	4081.1	4147.7	4238.2	4311.6	4352.5	4367.8
17.5°	3750.0	3753.3	3854.1	4011.1	4168.2	4287.7	4350.8	4396.8	4453.2	4489.1	4506.1
20°	3900.1	3907.0	4019.6	4205.7	4385.0	4521.5	4572.6	4555.6	4571.0	4598.3	4618.8
22.5°	4101.5	4105.0	4231.3	4432.7	4620.5	4770.7	4804.8	4734.8	4692.1	4710.9	4724.6
25°	4335.4	4357.6	4484.0	4690.4	4883.3	5026.7	5042.1	4936.2	4830.4	4835.5	4844.0
27.5°	4620.5	4641.0	4768.9	4973.8	5170.1	5294.6	5293.0	5151.3	4996.0	4956.7	4968.7
30°	4929.4	4951.6	5083.1	5294.6	5477.3	5586.6	5562.7	5393.7	5171.7	5098.3	5107.0
32.5°	5296.4	5310.0	5443.2	5654.8	5823.8	5910.9	5861.4	5653.1	5376.6	5293.0	5313.5
35°	5740.2	5760.6	5859.6	6059.4	6207.8	6279.6	6195.9	5950.1	5639.4	5545.6	5559.3
37.5°	6247.1	6233.4	6346.1	6523.6	6646.5	6690.9	6576.5	6284.7	5939.9	5829.0	5849.4
40°	6776.3	6769.4	6892.3	7063.0	7129.6	7156.9	6987.8	6668.6	6286.3	6166.9	6206.2
42.5°	7255.9	7250.7	7416.3	7605.8	7686.0	7655.3	7441.9	7076.6	6687.5	6550.9	6585.1
45°	7639.9	7633.1	7836.2	8102.4	8259.4	8208.3	7921.5	7527.3	7093.7	6952.1	6984.5
47.5°	7935.1	7938.6	8157.1	8486.5	8761.3	8780.0	8411.4	7986.4	7540.9	7380.5	7428.3
50°	8148.5	8158.8	8392.6	8757.9	9133.4	9299.0	8911.6	8457.5	8003.5	7822.5	7877.1
52.5°	8201.4	8220.2	8501.9	8930.3	9372.4	9688.1	9420.2	8909.8	8442.1	8269.7	8314.1
55°	7919.9	7957.4	8314.1	8916.7	9519.2	9944.1	9867.4	9368.9	8884.2	8706.7	8756.2
57.5°	7272.9	7325.9	7742.3	8529.1	9486.7	10119.9	10213.8	9809.4	9326.3	9155.6	9194.9
60°	6366.6	6429.7	6829.2	7687.7	9029.3	10184.8	10458.0	10237.7	9732.5	9566.9	9602.8
62.5°	4999.4	5081.3	5559.3	6566.3	8063.2	9882.7	10666.2	10625.3	10097.8	9891.2	9915.1
65°	3207.2	3294.2	3797.7	4987.4	6774.5	8957.6	10731.0	11002.5	10483.5	10195.1	10230.9
67.5°	1933.9	1973.1	2222.3	3022.8	4951.6	7563.1	10181.4	11420.6	10934.2	10575.7	10603.0
70°	1237.5	1259.6	1408.1	1775.1	2799.3	5518.3	8819.3	11499.1	11480.3	10966.6	10963.2
72.5°	839.8	846.6	885.9	1051.4	1583.9	3135.5	6504.9	10410.1	11821.7	11470.1	11415.5
75°	614.5	652.0	715.1	744.2	899.5	1566.9	3727.8	7313.9	9962.9	10116.5	9744.5
77.5°	457.5	459.1	546.2	580.4	641.8	834.7	1577.2	4082.8	6185.7	6494.6	5793.1
80°	387.4	367.0	365.3	467.7	483.1	520.6	704.9	1409.9	2215.5	1343.3	1015.6
82.5°	322.6	300.4	271.4	365.3	329.4	319.2	305.6	573.5	704.9	346.4	295.3
85°	225.3	215.0	204.8	238.9	187.8	160.4	146.8	267.9	296.9	146.8	129.8
87.5°	97.3	100.7	102.4	105.8	78.5	56.4	56.4	75.1	75.1	58.0	42.6
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)