

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: P968674

Luminaire Tested: **NAV-SB5C-722-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968674
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB5C-722-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33566.7 lumens
Efficiency: N/A
Efficacy: 134.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

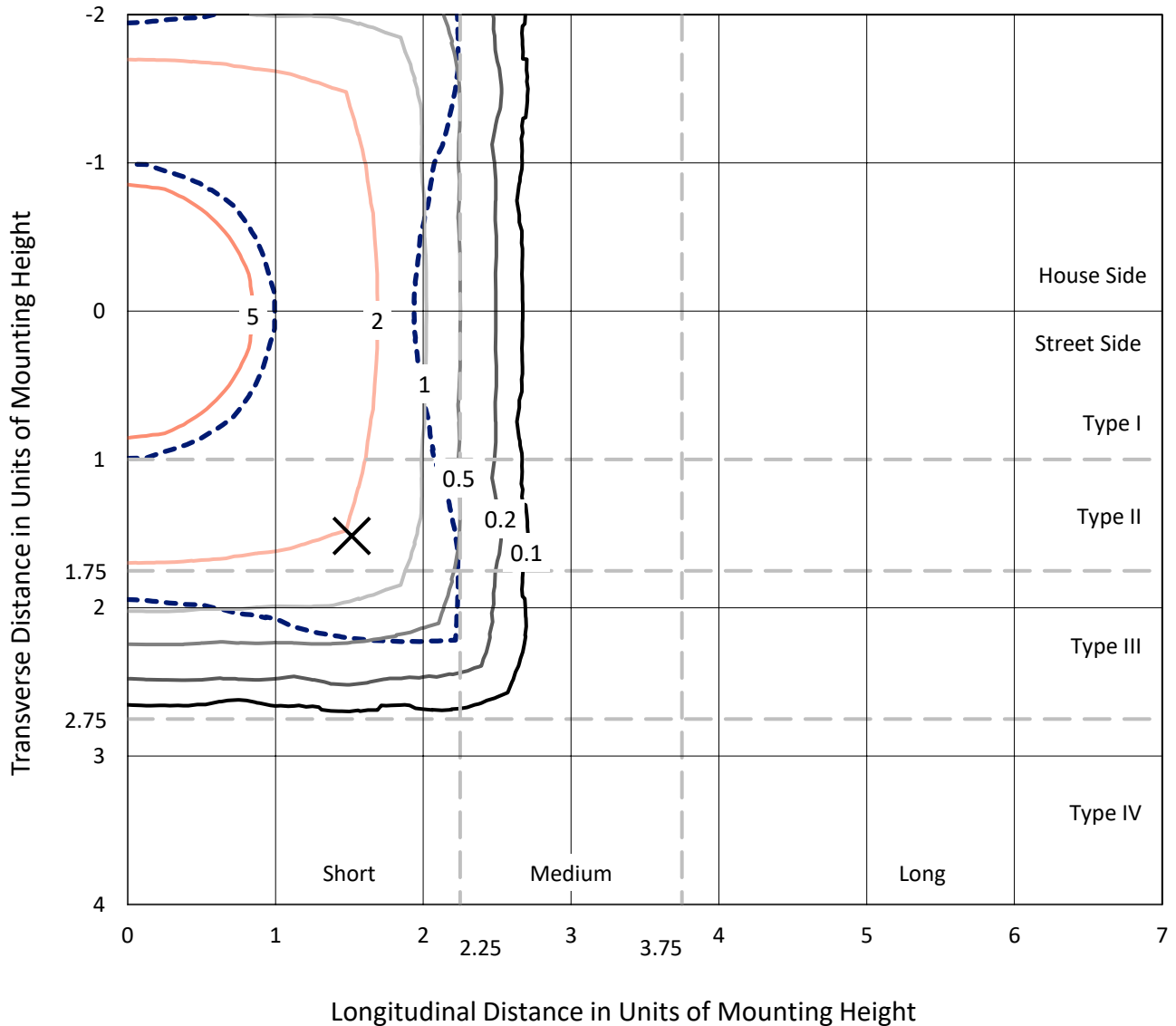
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

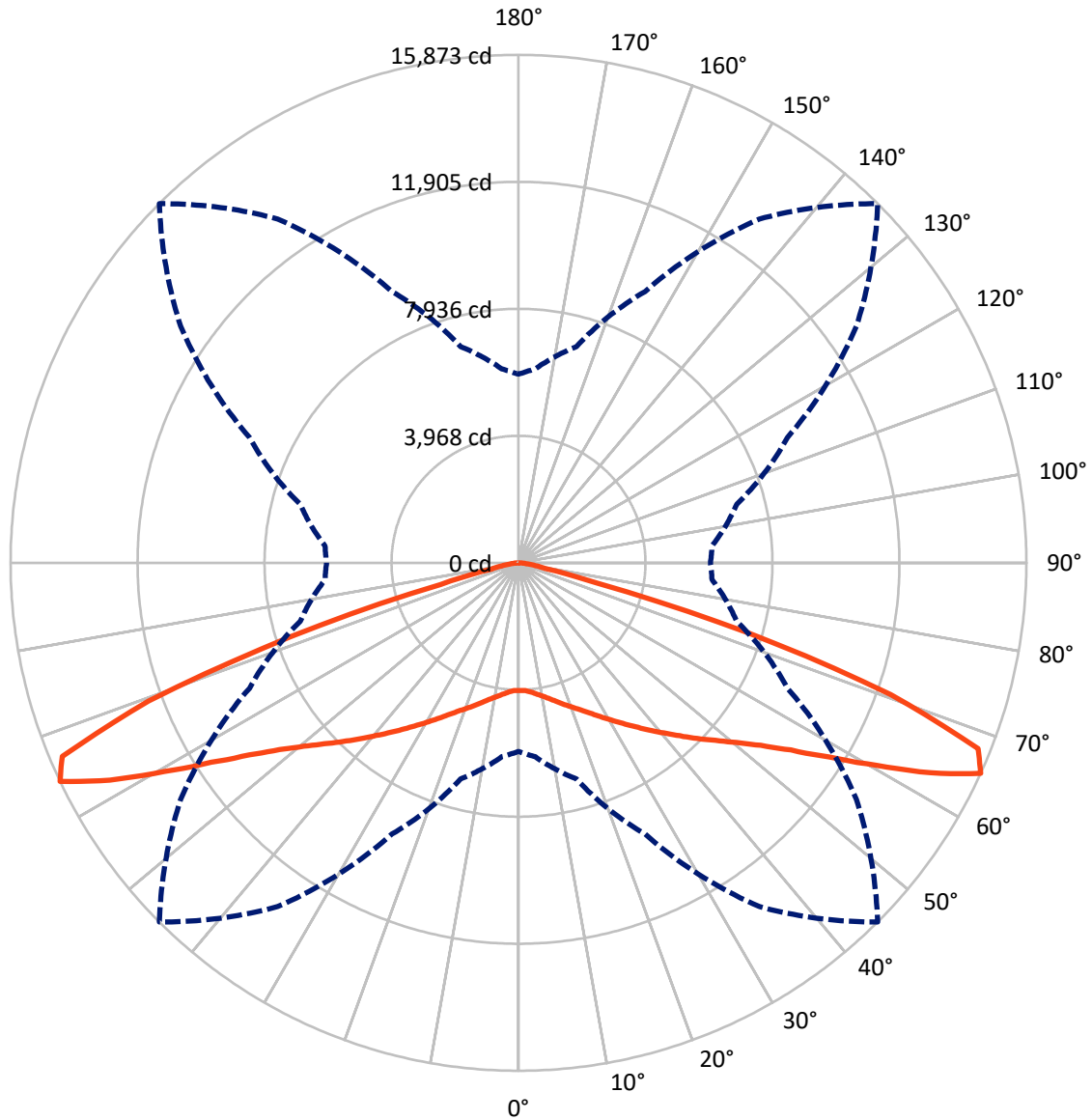
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16783.3	0.0	16783.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16783.3	0.0	16783.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	33566.7	0.0	33566.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	394.2	1.2
10°-20°	1286.5	3.8
20°-30°	2429.0	7.2
30°-40°	3977.4	11.8
40°-50°	6166.9	18.4
50°-60°	9109.8	27.1
60°-70°	8671.7	25.8
70°-80°	1399.3	4.2
80°-90°	131.9	0.4
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°	33566.7	100.0
0°-180°	33566.7	100.0

Coefficient of Utilization



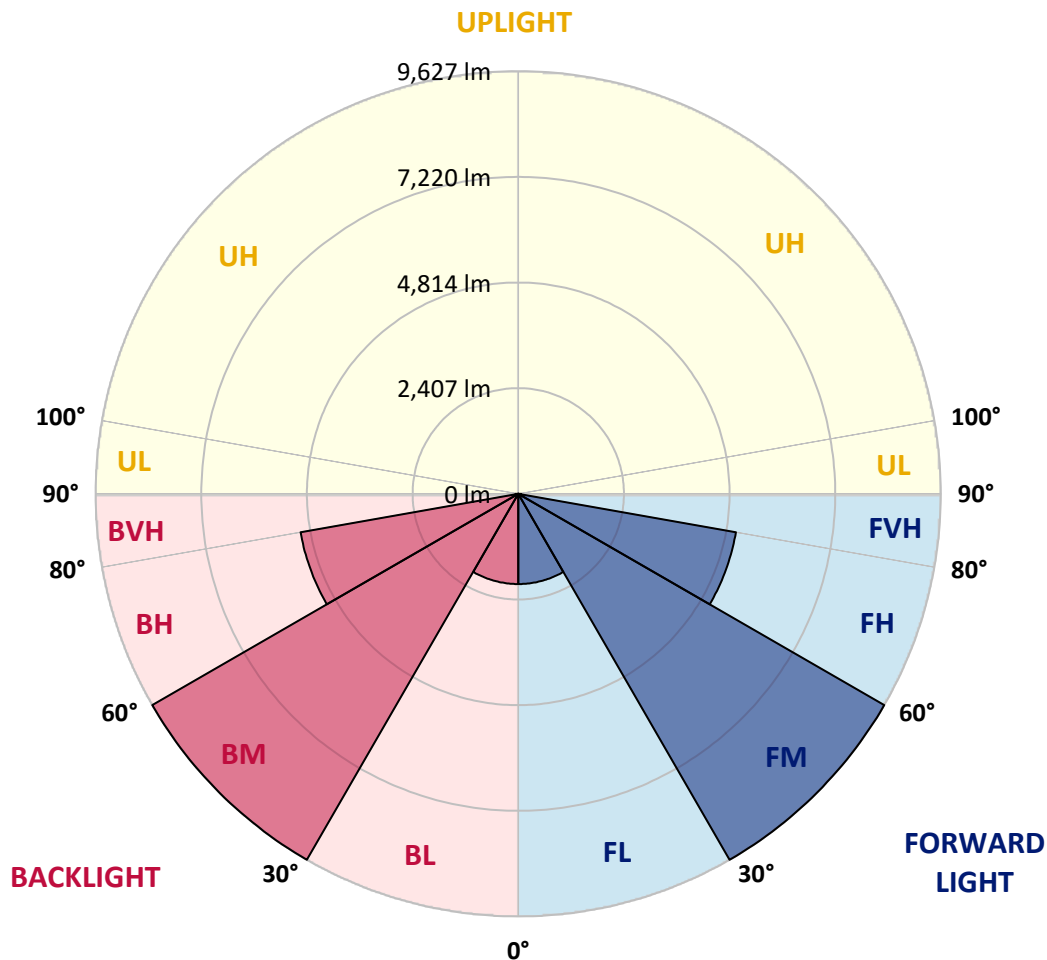
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2054.8	6.1			
FM (30°-60°)	9627.1	28.7			
FH (60°-80°)	5035.5	15.0			G3/7500
FVH (80°-90°)	65.9	0.2			G1/100
BL (0°-30°)	2054.8	6.1	B3/2500		
BM (30°-60°)	9627.1	28.7	B5		
BH (60°-80°)	5035.5	15.0	B5		G3/7500
BVH (80°-90°)	65.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3994.7	3994.7	3994.7	3994.7	3994.7	3994.7	3994.7	3994.7	3994.7	3994.7	3994.7
2.5°	4021.7	4008.3	4018.3	4009.9	4003.2	3996.5	3999.9	4011.6	4016.7	4018.3	4018.3
5°	4075.6	4063.8	4068.8	4068.8	4057.1	4053.7	4055.4	4063.8	4074.0	4074.0	4074.0
7.5°	4163.1	4151.4	4163.1	4156.5	4146.3	4142.9	4141.3	4148.1	4163.1	4163.1	4158.1
10°	4269.3	4255.8	4262.6	4259.2	4247.4	4242.4	4240.6	4250.8	4264.2	4262.6	4259.2
12.5°	4385.5	4370.3	4378.8	4368.7	4365.3	4360.2	4360.2	4358.5	4367.0	4360.2	4363.6
15°	4515.1	4505.1	4508.5	4501.7	4506.7	4503.3	4489.9	4483.1	4486.5	4476.5	4478.1
17.5°	4668.5	4644.9	4656.7	4653.3	4653.3	4660.0	4638.1	4629.7	4636.4	4626.3	4634.7
20°	4845.3	4821.7	4826.7	4820.0	4811.6	4818.3	4791.4	4798.1	4803.2	4796.4	4811.6
22.5°	5038.9	5008.7	5006.9	5010.3	4991.8	4993.5	4974.9	4991.8	5001.9	4983.3	5001.9
25°	5237.6	5205.7	5227.6	5219.1	5195.5	5200.6	5187.1	5204.0	5212.4	5188.9	5215.8
27.5°	5448.2	5426.2	5446.5	5451.6	5423.0	5443.2	5423.0	5438.0	5446.5	5411.2	5438.0
30°	5694.1	5672.1	5690.7	5704.1	5670.5	5702.5	5685.7	5695.7	5697.5	5655.3	5680.5
32.5°	5961.8	5928.2	5975.3	5982.1	5945.0	5983.7	5961.8	5975.3	5983.7	5926.4	5965.2
35°	6288.6	6246.5	6300.4	6292.0	6260.0	6292.0	6271.8	6292.0	6312.2	6243.1	6285.2
37.5°	6640.6	6596.8	6654.0	6638.8	6608.6	6630.4	6618.6	6632.2	6664.1	6590.0	6635.5
40°	7027.9	6974.0	7051.5	7024.5	6995.9	6992.6	6999.3	7007.7	7049.8	6967.2	6994.2
42.5°	7442.2	7384.9	7501.2	7459.0	7418.6	7391.7	7413.6	7430.4	7470.8	7378.2	7427.0
45°	7915.5	7849.8	8001.4	7950.8	7886.9	7831.2	7866.6	7891.9	7950.8	7839.6	7896.9
47.5°	8437.5	8363.4	8525.1	8510.0	8405.5	8284.3	8365.1	8437.5	8481.4	8346.6	8392.1
50°	8947.8	8890.5	9102.7	9121.3	8993.2	8823.2	8936.1	9045.5	9057.3	8880.5	8902.3
52.5°	9426.1	9368.8	9677.0	9793.3	9678.8	9476.6	9596.3	9707.4	9618.1	9389.1	9395.8
55°	9808.4	9761.3	10153.6	10453.5	10492.2	10325.4	10396.2	10392.8	10099.7	9747.8	9759.5
57.5°	9901.1	9894.3	10389.4	11024.4	11428.5	11448.7	11309.0	10951.9	10320.4	9847.2	9816.8
60°	9480.0	9522.1	10202.5	11322.5	12400.3	12848.3	12243.6	11224.8	10069.5	9412.7	9335.2
62.5°	8220.3	8331.4	9151.6	10958.7	13185.1	14458.3	12993.1	10810.5	9038.8	8181.6	8131.0
65°	5891.1	6084.8	6990.8	9352.0	13114.4	15872.9	12885.4	9276.2	7058.3	6069.6	5997.2
67.5°	2672.7	2869.8	3639.5	6403.1	11399.9	15489.0	11373.0	6470.4	3821.3	2879.8	2837.8
70°	968.4	1002.0	1249.7	2563.2	7285.6	12341.3	7597.1	2581.8	1328.8	1067.7	1054.3
72.5°	586.1	591.1	643.3	917.9	2531.2	7492.7	2639.1	948.1	656.8	582.7	592.9
75°	372.2	368.8	458.1	560.8	897.7	2527.9	941.5	560.8	456.4	415.9	419.3
77.5°	267.7	276.2	328.4	419.3	565.9	857.2	555.8	400.8	328.4	269.5	274.5
80°	200.4	205.5	239.1	326.8	397.5	533.9	353.6	296.4	247.5	168.4	173.4
82.5°	144.8	144.8	156.6	237.5	242.5	288.0	192.0	208.8	163.4	119.6	119.6
85°	85.9	84.3	97.7	141.4	126.3	106.1	87.5	128.0	102.7	74.1	72.5
87.5°	30.3	32.0	30.3	40.4	33.7	28.6	27.0	35.4	28.6	25.2	23.6
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)