

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: P969201

Luminaire Tested: **NAV-SB5D-722-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969201
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-SB5D-722-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45609.4 lumens
Efficiency: N/A
Efficacy: 125.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

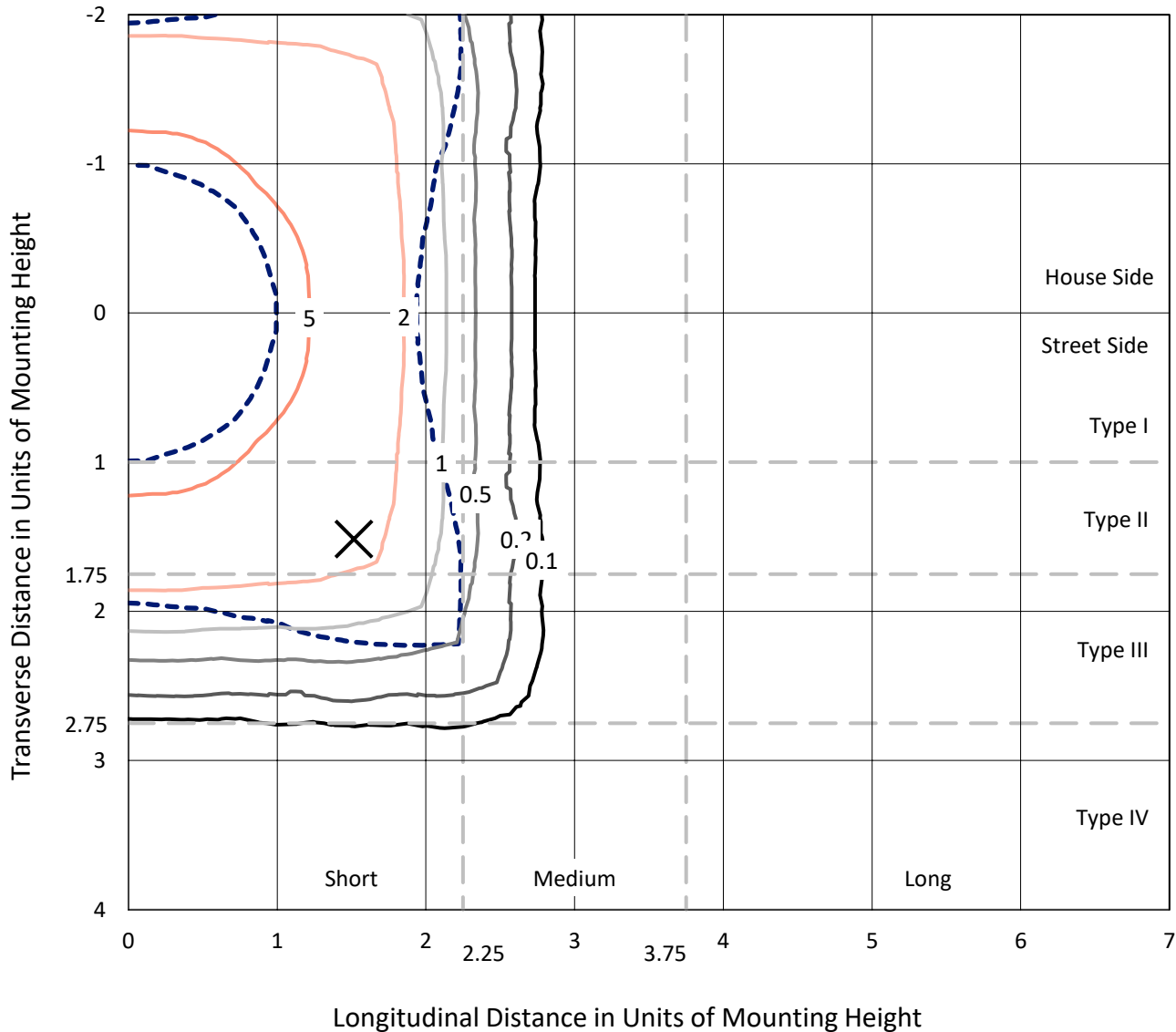
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

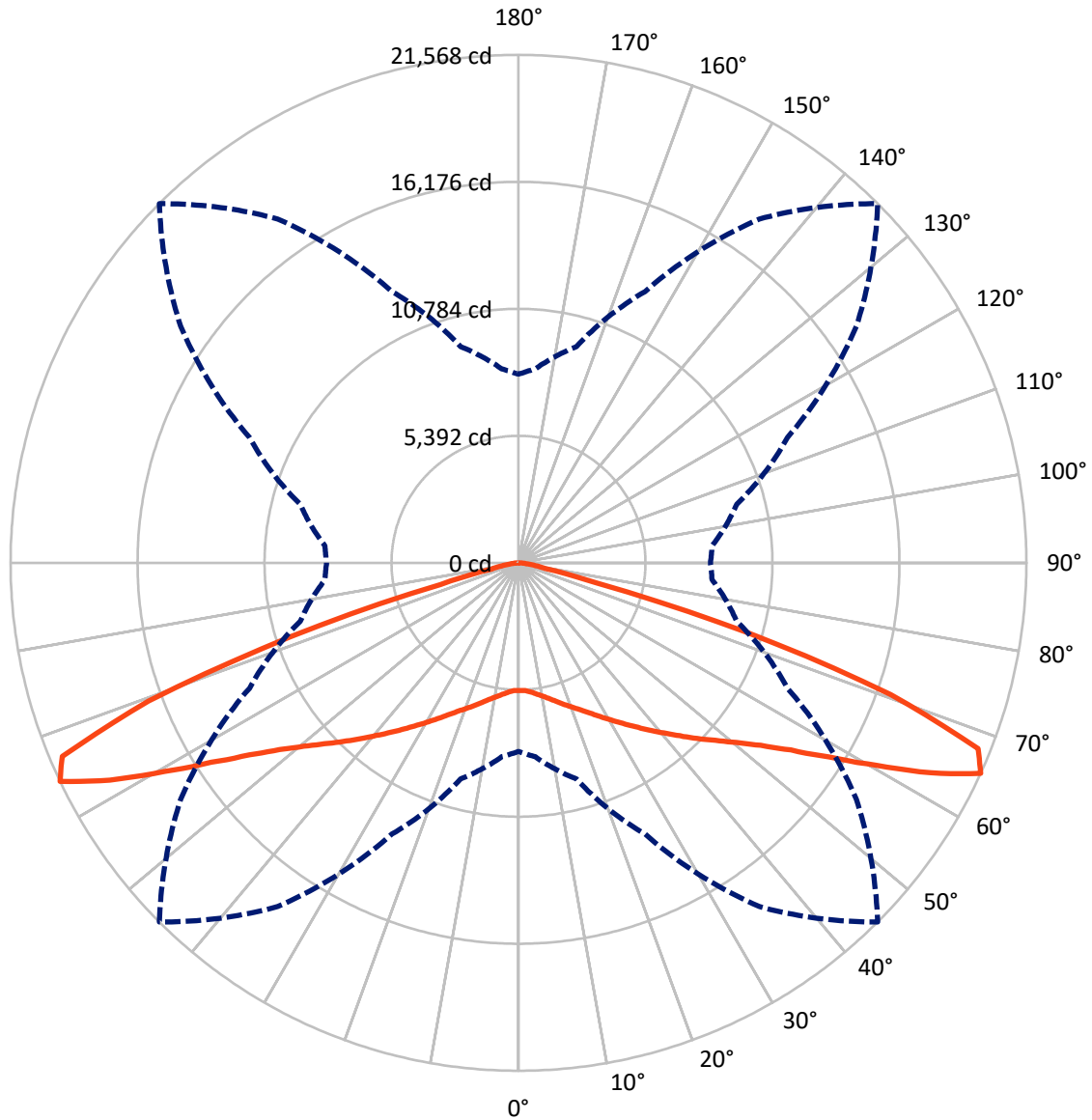
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 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	22804.7	0.0	22804.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	22804.7	0.0	22804.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	45609.4	0.0	45609.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	535.7	1.2
10°-20°	1748.0	3.8
20°-30°	3300.4	7.2
30°-40°	5404.3	11.8
40°-50°	8379.4	18.4
50°-60°	12378.2	27.1
60°-70°	11782.9	25.8
70°-80°	1901.3	4.2
80°-90°	179.2	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°	45609.4	100.0
0°-180°	45609.4	100.0

Coefficient of Utilization



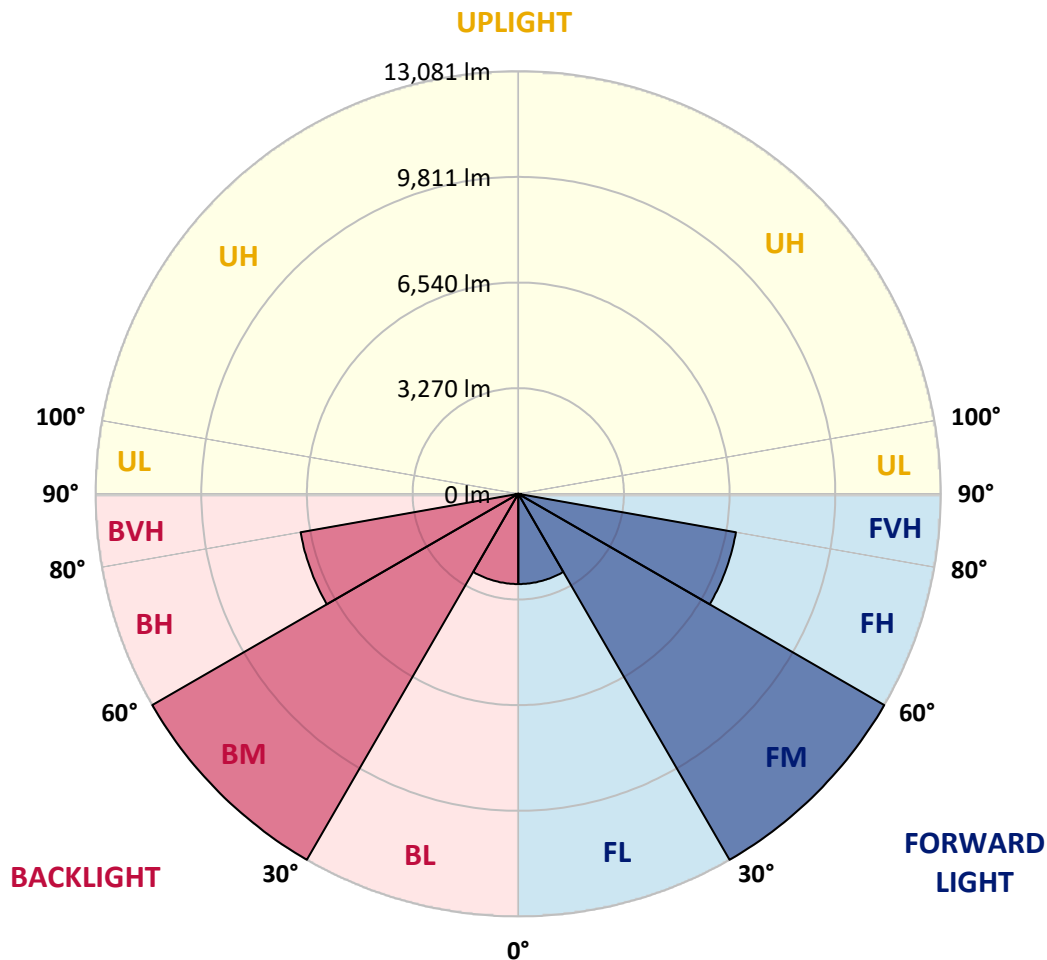
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2792.0	6.1			
FM (30°-60°)	13080.9	28.7			
FH (60°-80°)	6842.1	15.0			G3/7500
FVH (80°-90°)	89.6	0.2			G1/100
BL (0°-30°)	2792.0	6.1	B4/5000		
BM (30°-60°)	13080.9	28.7	B5		
BH (60°-80°)	6842.1	15.0	B5		G3/7500
BVH (80°-90°)	89.6	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°	5428.0	5428.0	5428.0	5428.0	5428.0	5428.0	5428.0	5428.0	5428.0	5428.0	5428.0
2.5°	5464.6	5446.2	5460.0	5448.6	5439.5	5430.2	5434.9	5450.8	5457.7	5460.0	5460.0
5°	5537.9	5521.8	5528.6	5528.6	5512.7	5508.0	5510.4	5521.8	5535.5	5535.5	5535.5
7.5°	5656.8	5640.8	5656.8	5647.6	5633.9	5629.4	5627.0	5636.2	5656.8	5656.8	5649.9
10°	5801.0	5782.6	5791.9	5787.3	5771.3	5764.4	5762.0	5775.8	5794.1	5791.9	5787.3
12.5°	5958.8	5938.2	5949.7	5936.0	5931.4	5924.5	5924.5	5922.2	5933.7	5924.5	5929.1
15°	6135.0	6121.3	6125.9	6116.8	6123.7	6119.0	6100.8	6091.6	6096.2	6082.5	6084.7
17.5°	6343.3	6311.2	6327.3	6322.7	6322.7	6331.8	6302.1	6290.7	6299.9	6286.1	6297.6
20°	6583.6	6551.6	6558.5	6549.2	6537.9	6547.0	6510.4	6519.5	6526.4	6517.3	6537.9
22.5°	6846.8	6805.6	6803.2	6807.8	6782.7	6785.0	6759.8	6782.7	6796.4	6771.3	6796.4
25°	7116.8	7073.3	7103.0	7091.6	7059.6	7066.5	7048.1	7071.1	7082.4	7050.5	7087.1
27.5°	7402.9	7373.0	7400.5	7407.4	7368.5	7396.0	7368.5	7389.1	7400.5	7352.5	7389.1
30°	7736.9	7707.2	7732.4	7750.6	7704.9	7748.4	7725.5	7739.3	7741.5	7684.3	7718.7
32.5°	8100.8	8055.0	8119.1	8128.2	8077.9	8130.5	8100.8	8119.1	8130.5	8052.7	8105.4
35°	8544.7	8487.5	8560.7	8549.3	8505.9	8549.3	8521.8	8549.3	8576.8	8482.9	8540.1
37.5°	9023.0	8963.5	9041.3	9020.7	8979.5	9009.2	8993.2	9011.5	9055.1	8954.3	9016.1
40°	9549.3	9476.1	9581.4	9544.7	9505.8	9501.2	9510.4	9521.8	9579.0	9466.9	9503.5
42.5°	10112.2	10034.4	10192.3	10135.1	10080.2	10043.6	10073.3	10096.2	10151.2	10025.3	10091.6
45°	10755.2	10666.0	10872.0	10803.3	10716.4	10640.8	10688.9	10723.2	10803.3	10652.3	10730.1
47.5°	11464.6	11364.0	11583.6	11563.0	11421.2	11256.4	11366.2	11464.6	11524.2	11341.1	11402.9
50°	12158.0	12080.2	12368.6	12393.7	12219.8	11988.7	12142.0	12290.8	12306.8	12066.5	12096.2
52.5°	12807.9	12730.1	13148.9	13306.8	13151.2	12876.6	13039.0	13190.1	13068.7	12757.6	12766.7
55°	13327.4	13263.3	13796.5	14203.8	14256.4	14029.9	14126.0	14121.4	13723.3	13244.9	13261.0
57.5°	13453.2	13444.1	14116.8	14979.6	15528.7	15556.2	15366.3	14881.2	14023.0	13380.0	13338.8
60°	12881.2	12938.4	13862.8	15384.6	16849.2	17457.9	16636.4	15251.9	13682.1	12789.6	12684.4
62.5°	11169.4	11320.5	12434.9	14890.3	17915.6	19645.6	17654.7	14689.0	12281.6	11116.8	11048.2
65°	8004.6	8267.9	9499.0	12707.2	17819.4	21567.7	17508.2	12604.2	9590.5	8247.3	8148.9
67.5°	3631.6	3899.4	4945.1	8700.3	15489.9	21046.0	15453.3	8791.8	5192.2	3913.0	3855.8
70°	1315.8	1361.6	1697.9	3482.8	9899.4	16769.1	10322.8	3508.1	1805.5	1450.8	1432.5
72.5°	796.3	803.2	874.1	1247.1	3439.4	10180.9	3585.9	1288.3	892.5	791.8	805.5
75°	505.7	501.1	622.5	762.0	1219.6	3434.8	1279.2	762.0	620.1	565.2	569.8
77.5°	363.9	375.3	446.2	569.8	768.9	1164.8	755.1	544.6	446.2	366.1	373.0
80°	272.3	279.2	324.9	443.9	540.1	725.4	480.5	402.7	336.4	228.9	235.7
82.5°	196.8	196.8	212.8	322.7	329.5	391.3	260.9	283.7	222.0	162.5	162.5
85°	116.7	114.4	132.7	192.2	171.6	144.2	119.0	173.9	139.6	100.7	98.4
87.5°	41.2	43.5	41.2	54.9	45.8	38.9	36.6	48.1	38.9	34.3	32.1
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)