

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: P965000

Luminaire Tested: **NAV-SB3D-722-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P965000
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3D-722-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25574.8 lumens
Efficiency: N/A
Efficacy: 117.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

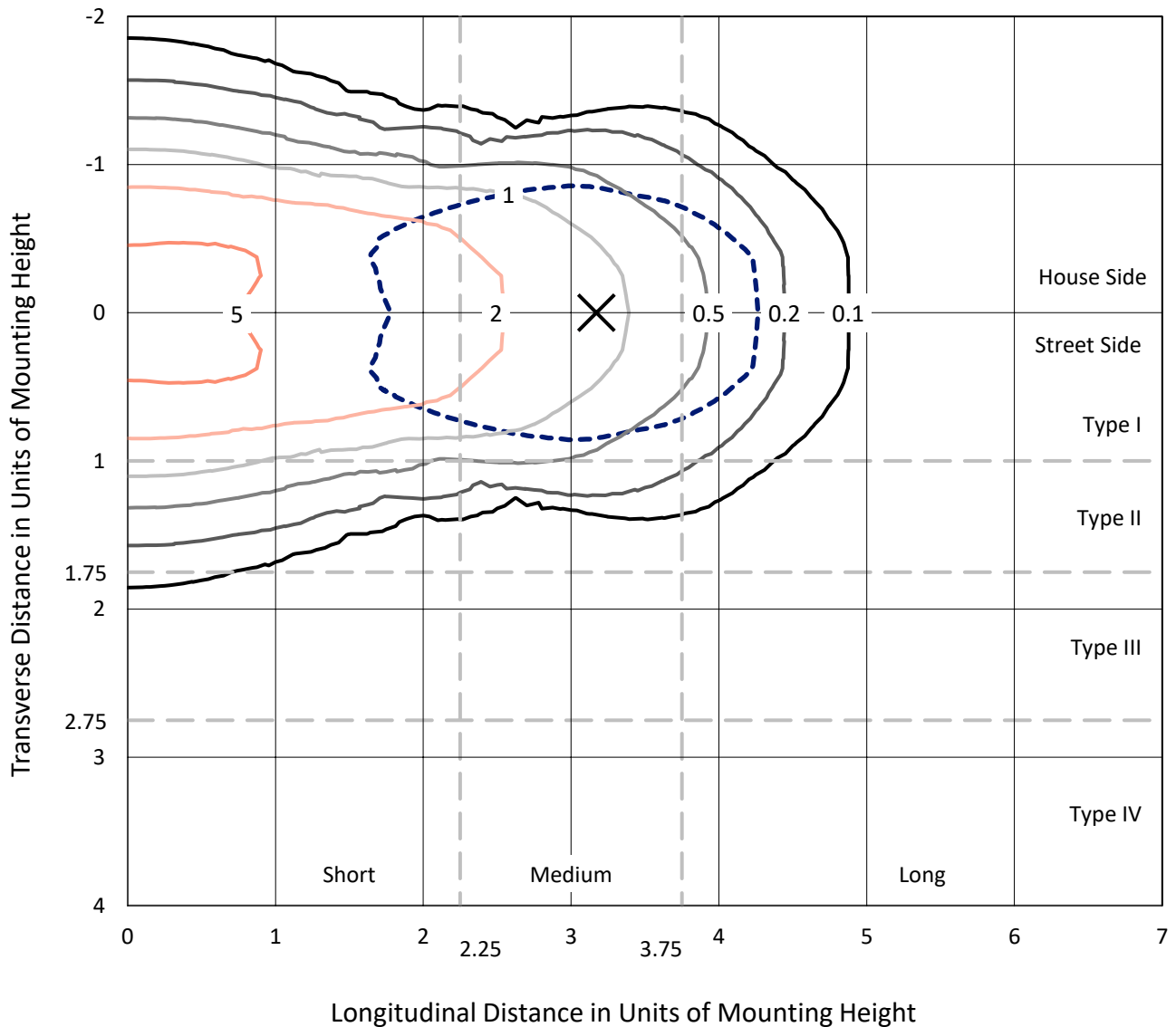
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

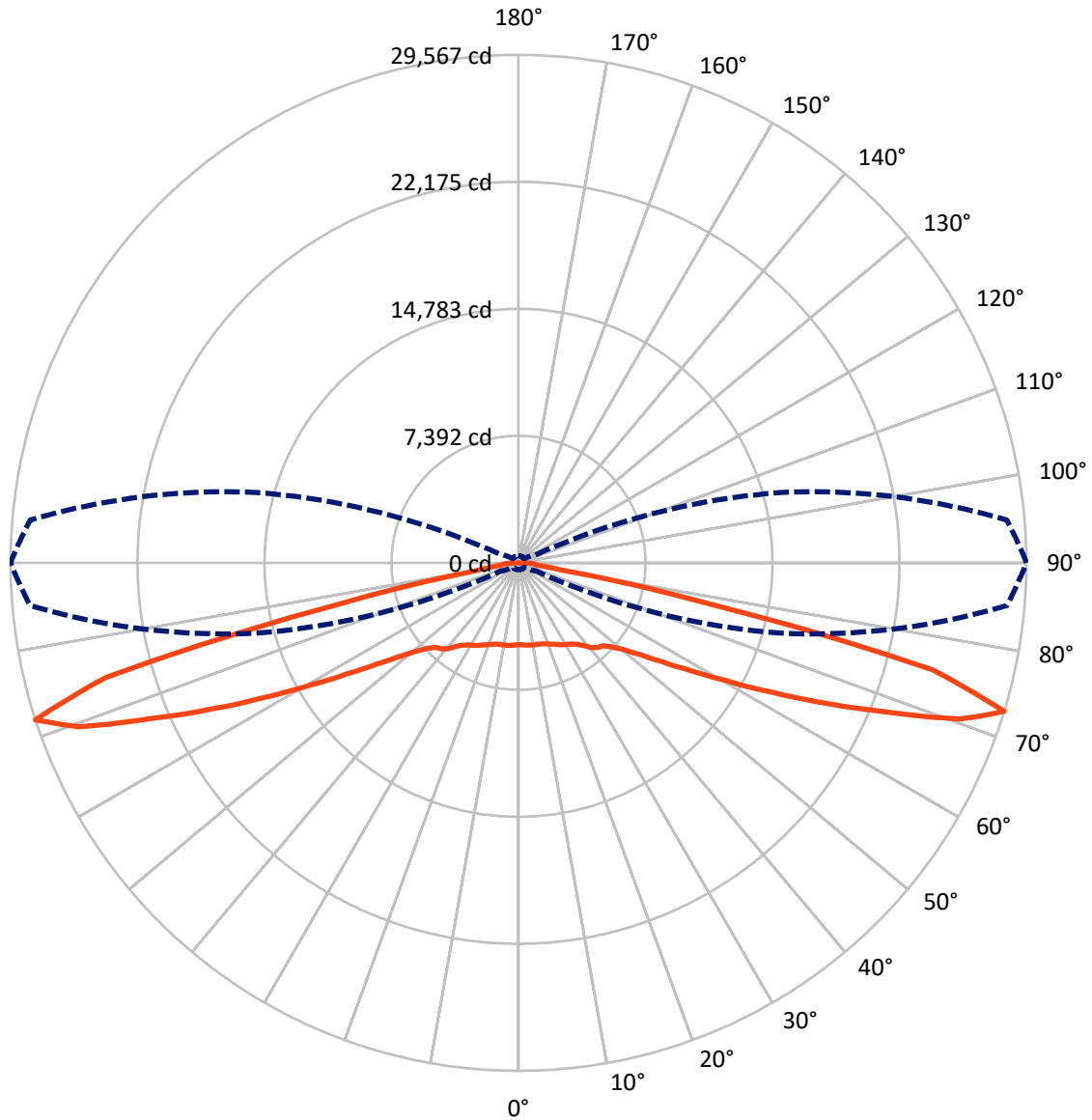
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12787.4	0.0	12787.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12787.4	0.0	12787.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	25574.8	0.0	25574.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	463.4	1.8
10°-20°	1416.8	5.5
20°-30°	2362.4	9.2
30°-40°	3249.0	12.7
40°-50°	3968.0	15.5
50°-60°	4589.4	17.9
60°-70°	5472.1	21.4
70°-80°	3819.2	14.9
80°-90°	234.6	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°	25574.8	100.0
0°-180°	25574.8	100.0

Coefficient of Utilization

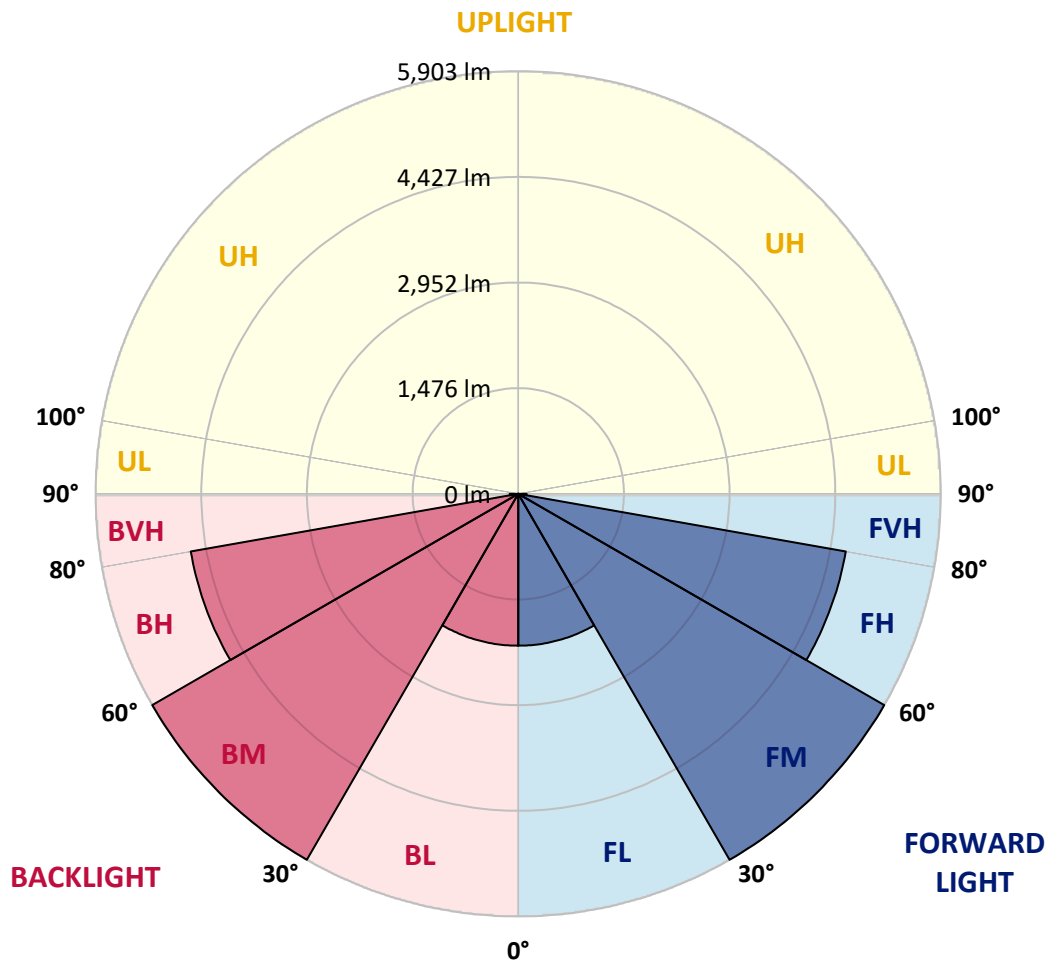


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2121.3	8.3			
FM (30°-60°)	5903.2	23.1			
FH (60°-80°)	4645.6	18.2			G2/5000
FVH (80°-90°)	117.3	0.5			G2/225
BL (0°-30°)	2121.3	8.3	B3/2500		
BM (30°-60°)	5903.2	23.1	B4/8500		
BH (60°-80°)	4645.6	18.2	B4/5000		G4/5000
BVH (80°-90°)	117.3	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 I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4779.0	4779.0	4779.0	4779.0	4779.0	4779.0	4779.0	4779.0	4779.0	4779.0	4779.0
2.5°	4783.0	4788.4	4788.4	4784.4	4793.8	4785.7	4785.7	4781.6	4785.7	4781.6	4781.6
5°	4807.5	4814.2	4817.0	4815.7	4827.9	4821.1	4821.1	4815.7	4817.0	4812.9	4812.9
7.5°	4853.7	4863.2	4868.6	4875.4	4893.0	4884.9	4879.5	4863.2	4856.3	4845.5	4845.5
10°	4868.6	4879.5	4897.1	4932.5	4973.3	4974.6	4958.3	4917.5	4886.3	4861.8	4857.8
12.5°	4822.4	4837.4	4874.1	4946.1	5037.2	5073.9	5048.0	4980.1	4918.9	4875.4	4868.6
15°	4764.0	4780.3	4836.1	4944.7	5079.3	5165.0	5162.2	5072.5	4974.6	4906.7	4895.8
17.5°	4672.9	4689.2	4769.4	4921.6	5111.9	5253.2	5291.4	5198.9	5061.7	4970.5	4955.6
20°	4508.5	4523.4	4634.8	4848.2	5122.7	5347.0	5446.2	5364.7	5193.5	5069.8	5046.7
22.5°	4295.1	4318.1	4448.6	4721.9	5097.0	5444.9	5622.9	5567.3	5347.0	5175.8	5144.6
25°	4066.7	4091.2	4243.4	4566.9	5030.4	5515.6	5832.2	5797.0	5521.1	5307.7	5264.2
27.5°	3869.6	3895.4	4061.3	4413.3	4927.1	5542.8	6038.9	6056.5	5731.7	5453.1	5406.9
30°	3714.7	3739.1	3915.8	4289.6	4793.8	5515.6	6219.7	6342.0	5946.4	5579.5	5512.9
32.5°	3544.8	3576.0	3762.3	4138.7	4636.2	5450.3	6377.3	6650.5	6195.2	5715.4	5631.1
35°	3330.0	3358.5	3554.3	3932.1	4429.6	5345.7	6509.2	6993.1	6551.3	5922.0	5828.3
37.5°	3069.1	3096.2	3290.6	3673.9	4224.3	5198.9	6609.7	7379.1	6975.3	6219.7	6094.6
40°	2806.8	2832.6	3014.7	3385.8	3978.3	5011.3	6645.1	7756.9	7462.0	6628.8	6495.5
42.5°	2566.2	2589.3	2756.4	3101.6	3702.4	4772.1	6598.8	8085.8	7898.2	6914.2	6743.0
45°	2344.6	2365.0	2513.1	2835.3	3415.6	4481.3	6460.3	8439.2	8417.5	7118.1	6887.0
47.5°	2091.8	2112.2	2265.8	2577.1	3128.8	4140.1	6225.1	8787.2	9139.2	7580.2	7313.8
50°	1783.3	1800.9	1958.6	2279.4	2831.2	3777.2	5898.9	9060.4	10049.8	8280.2	7945.8
52.5°	1417.7	1436.6	1590.3	1911.0	2477.8	3387.1	5469.4	9238.4	11101.9	9302.3	8890.4
55°	1054.7	1068.4	1201.5	1489.6	2040.2	2942.7	4931.2	9288.8	12295.3	10699.6	10184.4
57.5°	765.3	773.4	859.1	1073.8	1546.7	2386.7	4277.3	9158.3	13715.6	12491.0	11842.6
60°	619.8	622.5	648.3	743.4	1075.1	1758.8	3487.7	8709.7	15256.9	14800.3	13983.4
62.5°	562.7	562.7	569.5	595.3	727.1	1160.7	2532.2	7780.1	16909.7	17718.5	16624.3
65°	523.3	523.3	526.0	538.2	573.6	739.4	1598.4	6265.8	18302.9	21136.8	19753.1
67.5°	487.9	489.3	487.9	492.0	512.4	546.4	927.0	4327.7	19053.1	24678.8	23185.1
70°	451.2	454.0	447.2	447.2	463.5	464.8	580.4	2373.2	18430.6	27647.3	27254.5
72.5°	407.7	411.8	401.0	398.2	410.5	405.1	436.3	1139.0	15823.7	28533.5	29566.5
75°	369.7	375.2	350.7	343.9	343.9	339.8	354.8	584.5	10270.1	23276.1	24896.3
77.5°	335.7	346.6	307.2	285.5	280.0	267.7	289.5	357.4	4492.2	10927.9	10700.9
80°	277.3	292.2	252.8	226.9	217.5	203.9	228.4	250.1	1336.1	2537.6	2430.3
82.5°	206.6	213.4	179.4	161.7	153.5	144.1	171.3	173.9	434.9	898.4	1015.4
85°	131.8	134.6	110.1	95.1	91.0	87.0	108.8	95.1	165.8	660.6	959.6
87.5°	46.2	53.0	42.1	38.0	40.8	34.0	50.3	28.5	46.2	466.2	577.7
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)