

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: P969205

Luminaire Tested: **NAV-SB5D-722-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969205
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-SB5D-722-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44820.2 lumens
Efficiency: N/A
Efficacy: 122.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B5 - U0 - G5

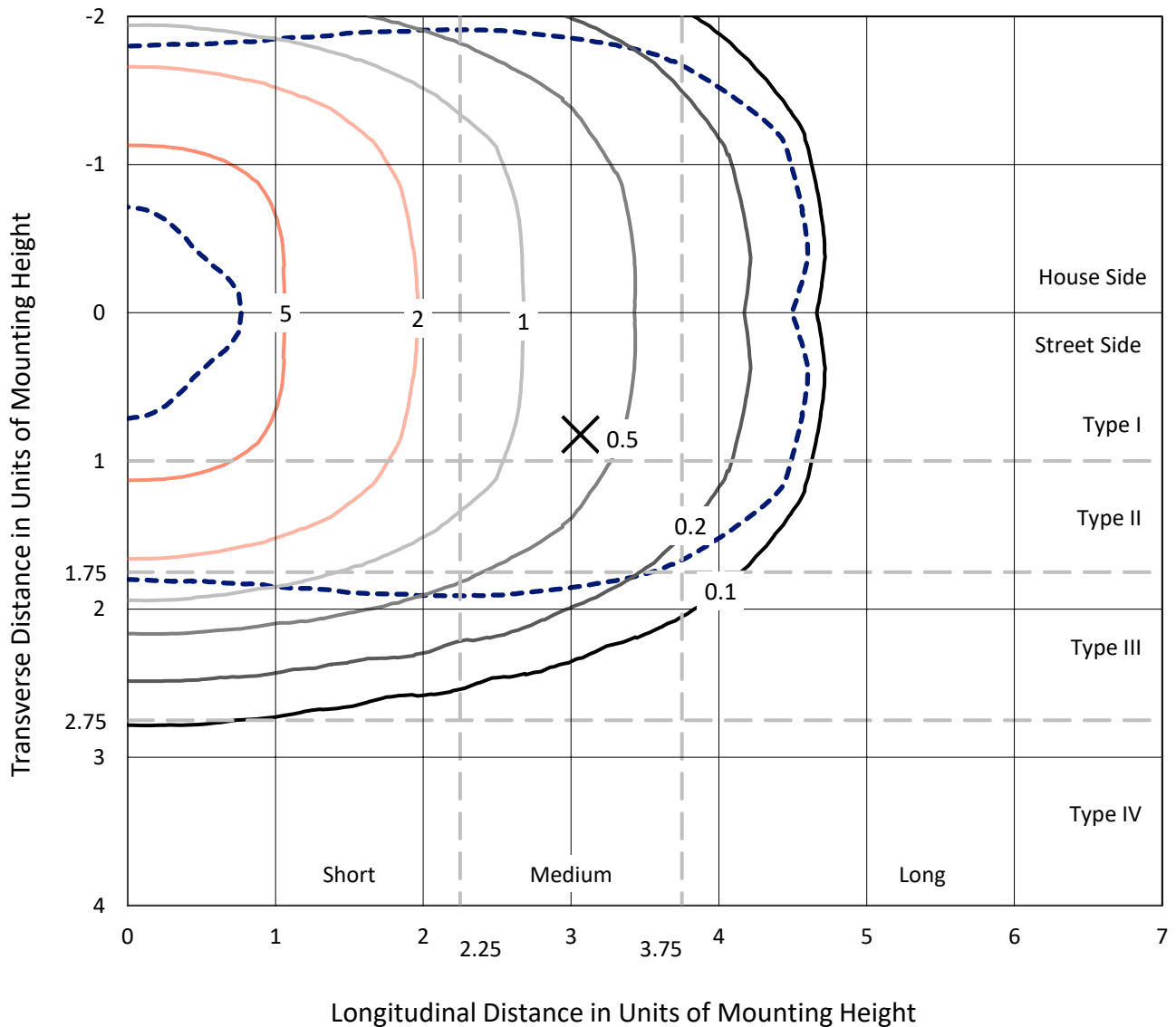
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

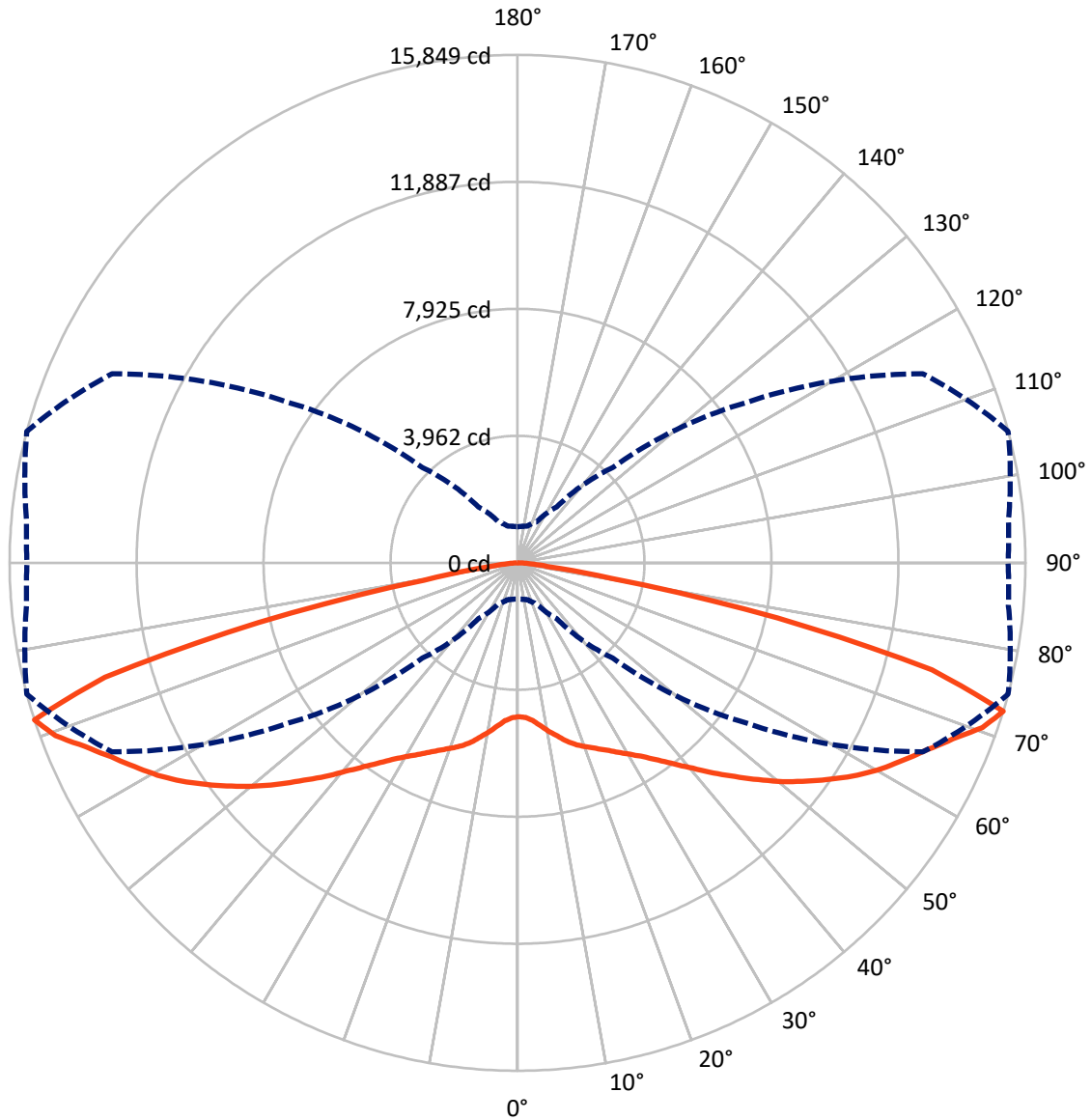
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 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
House Side	Lumens	22410.1	0.0	22410.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	22410.1	0.0	22410.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	44820.2	0.0	44820.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	470.3	1.0
10°-20°	1551.2	3.5
20°-30°	2997.3	6.7
30°-40°	5061.1	11.3
40°-50°	8026.3	17.9
50°-60°	10746.3	24.0
60°-70°	10227.1	22.8
70°-80°	5336.6	11.9
80°-90°	404.0	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°	44820.2	100.0
0°-180°	44820.2	100.0

Coefficient of Utilization

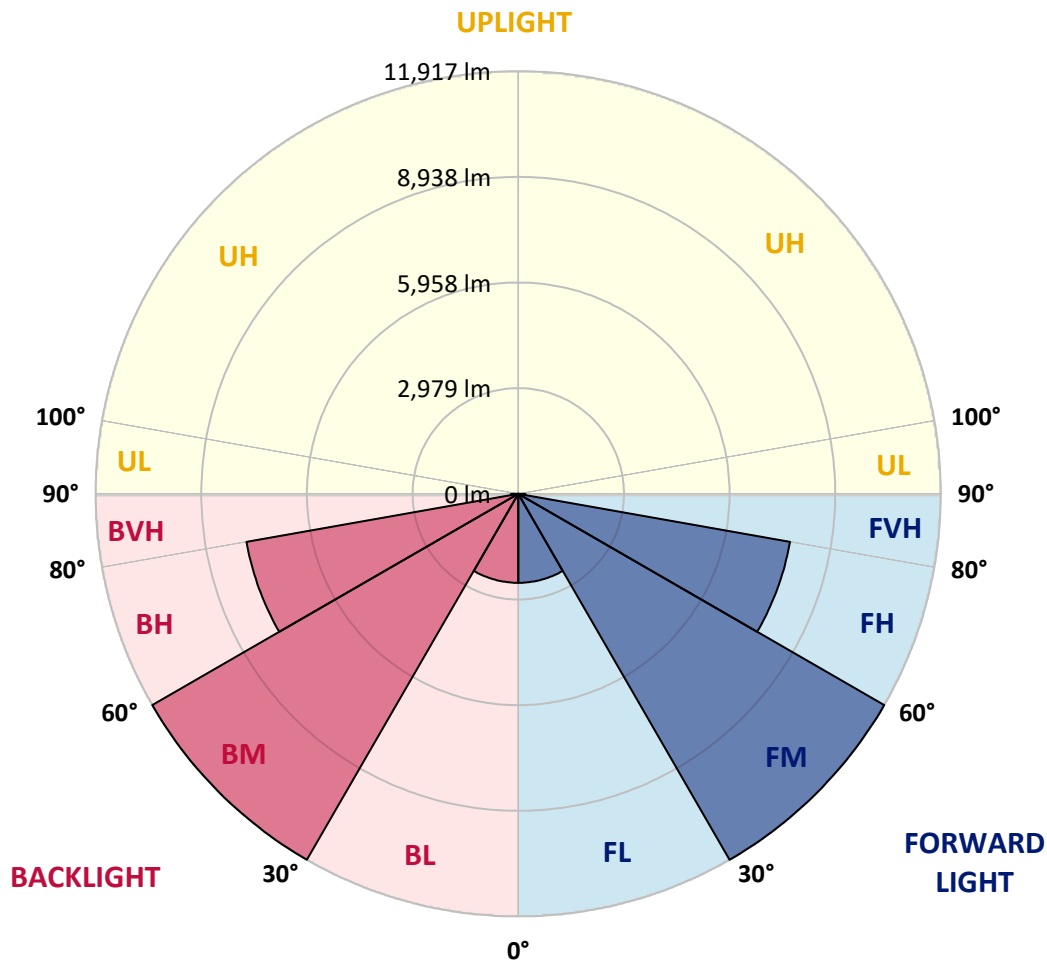


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2509.4	5.6			
FM (30°-60°)	11916.9	26.6			
FH (60°-80°)	7781.8	17.4			G4/12000
FVH (80°-90°)	202.0	0.5			G2/225
BL (0°-30°)	2509.4	5.6	B4/5000		
BM (30°-60°)	11916.9	26.6	B5		
BH (60°-80°)	7781.8	17.4	B5		G5
BVH (80°-90°)	202.0	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°	4801.0	4801.0	4801.0	4801.0	4801.0	4801.0	4801.0	4801.0	4801.0	4801.0	4801.0
2.5°	4801.0	4796.5	4801.0	4805.6	4803.4	4803.4	4814.7	4821.6	4835.3	4833.1	4830.8
5°	4769.0	4766.8	4785.0	4805.6	4821.6	4849.1	4883.4	4908.6	4940.6	4947.5	4947.5
7.5°	4753.0	4746.2	4778.1	4814.7	4865.2	4933.7	5000.2	5068.8	5123.7	5142.0	5146.6
10°	4764.4	4766.8	4810.2	4878.9	4959.0	5055.1	5148.9	5265.6	5343.4	5361.7	5380.0
12.5°	4817.1	4812.5	4885.7	4995.5	5105.4	5226.7	5336.6	5464.7	5549.3	5592.8	5611.2
15°	4913.1	4904.0	5007.0	5169.5	5329.7	5471.6	5560.8	5682.1	5780.5	5835.4	5856.0
17.5°	5027.6	5032.1	5167.2	5377.8	5588.3	5748.4	5833.1	5894.9	5970.4	6018.5	6041.3
20°	5228.9	5238.2	5389.1	5638.6	5878.9	6062.0	6130.6	6107.7	6128.3	6165.0	6192.4
22.5°	5499.0	5503.5	5673.0	5943.0	6194.7	6396.0	6441.8	6348.0	6290.8	6315.9	6334.3
25°	5812.5	5842.3	6011.6	6288.5	6547.1	6739.3	6759.9	6618.0	6476.2	6483.0	6494.5
27.5°	6194.7	6222.2	6393.7	6668.3	6931.6	7098.6	7096.3	6906.3	6698.1	6645.5	6661.5
30°	6608.9	6638.6	6814.8	7098.6	7343.4	7489.9	7457.9	7231.3	6933.8	6835.4	6846.9
32.5°	7100.9	7119.1	7297.7	7581.4	7807.9	7924.7	7858.4	7579.2	7208.4	7096.3	7123.7
35°	7695.9	7723.3	7856.0	8123.7	8322.9	8418.9	8306.9	7977.4	7560.8	7434.9	7453.3
37.5°	8375.5	8357.2	8508.2	8746.2	8911.0	8970.5	8817.2	8425.8	7963.6	7814.8	7842.3
40°	9084.9	9075.8	9240.5	9469.4	9558.6	9595.2	9368.7	8940.8	8428.2	8268.0	8320.5
42.5°	9728.0	9721.1	9943.0	10197.1	10304.6	10263.4	9977.3	9487.7	8965.9	8782.8	8828.6
45°	10242.8	10233.7	10506.0	10862.9	11073.5	11004.9	10620.4	10091.8	9510.6	9320.6	9364.1
47.5°	10638.7	10643.3	10936.2	11377.9	11746.3	11771.5	11277.2	10707.4	10110.1	9895.0	9959.1
50°	10924.8	10938.5	11252.0	11741.7	12245.2	12467.2	11947.7	11339.0	10730.2	10487.7	10560.9
52.5°	10995.7	11020.9	11398.5	11972.8	12565.6	12988.9	12629.6	11945.3	11318.4	11087.2	11146.8
55°	10618.2	10668.5	11146.8	11954.6	12762.4	13332.2	13229.2	12561.0	11911.1	11673.1	11739.4
57.5°	9750.8	9821.8	10380.2	11435.1	12718.9	13567.8	13693.7	13151.4	12503.8	12274.9	12327.6
60°	8535.7	8620.4	9155.8	10306.9	12105.6	13654.8	14021.0	13725.8	13048.4	12826.4	12874.5
62.5°	6702.7	6812.6	7453.3	8803.4	10810.4	13249.8	14300.2	14245.2	13538.1	13261.2	13293.2
65°	4299.9	4416.6	5091.7	6686.7	9082.6	12009.5	14387.1	14751.0	14055.3	13668.6	13716.7
67.5°	2592.7	2645.4	2979.5	4052.7	6638.6	10139.8	13650.2	15311.7	14659.4	14178.8	14215.5
70°	1659.1	1688.8	1887.9	2379.9	3752.9	7398.3	11824.1	15416.9	15391.7	14702.9	14698.3
72.5°	1125.9	1135.1	1187.7	1409.7	2123.6	4203.7	8721.0	13956.9	15849.4	15378.0	15304.8
75°	823.8	874.1	958.8	997.7	1206.0	2100.7	4997.8	9805.8	13357.3	13563.3	13064.4
77.5°	613.3	615.6	732.3	778.1	860.4	1119.0	2114.5	5473.8	8293.2	8707.4	7766.8
80°	519.5	492.0	489.7	627.0	647.6	697.9	945.2	1890.2	2970.3	1800.9	1361.6
82.5°	432.6	402.7	363.9	489.7	441.7	427.9	409.6	768.9	945.2	464.5	395.9
85°	302.1	288.3	274.6	320.4	251.7	215.1	196.8	359.3	398.2	196.8	173.9
87.5°	130.5	135.0	137.4	141.9	105.3	75.5	75.5	100.7	100.7	77.8	57.2
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)