

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: P967093

Luminaire Tested: **NAV-SB4D-722-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P967093
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-SB4D-722-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 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: 36186.6 lumens
Efficiency: N/A
Efficacy: 123.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

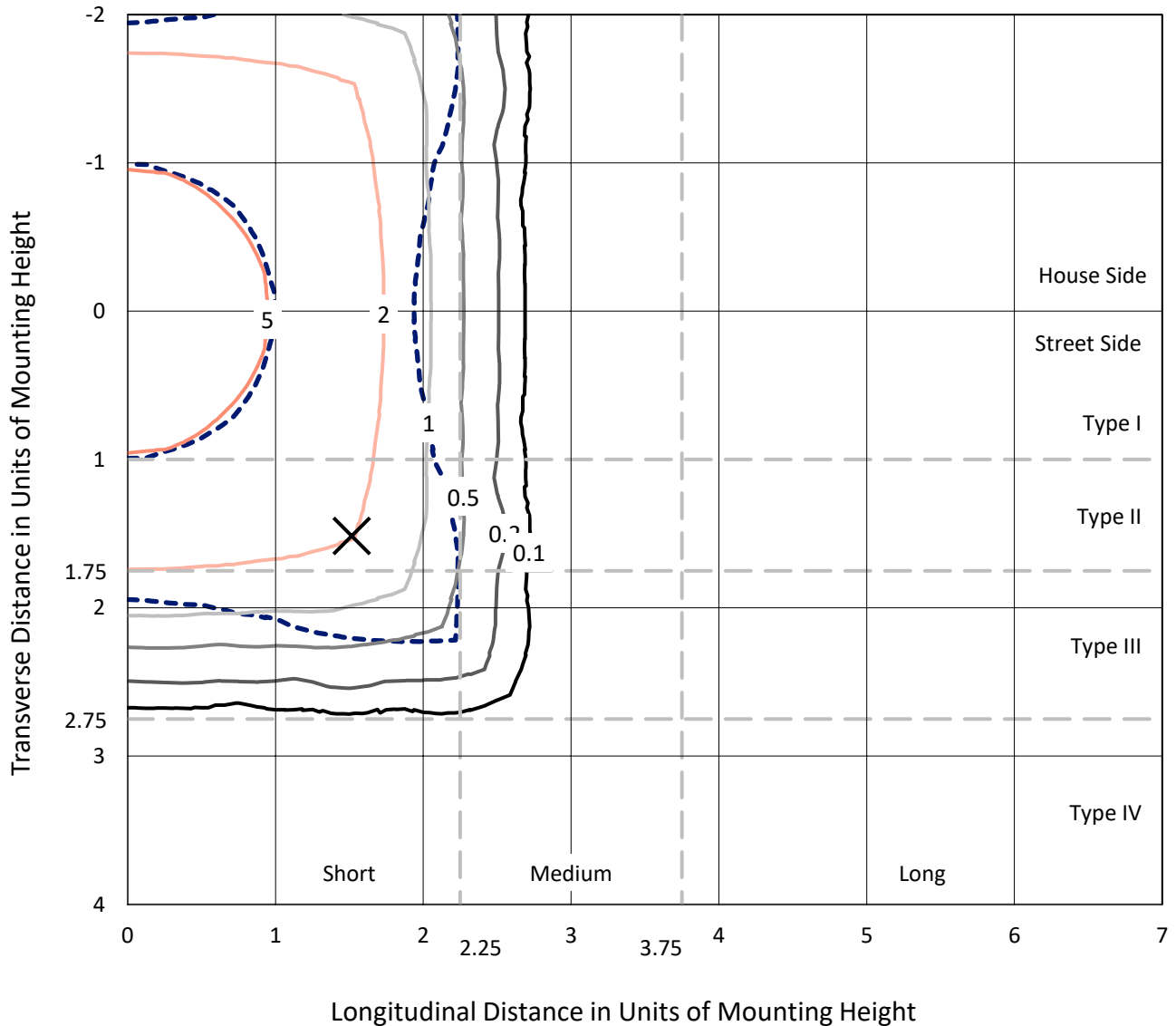
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

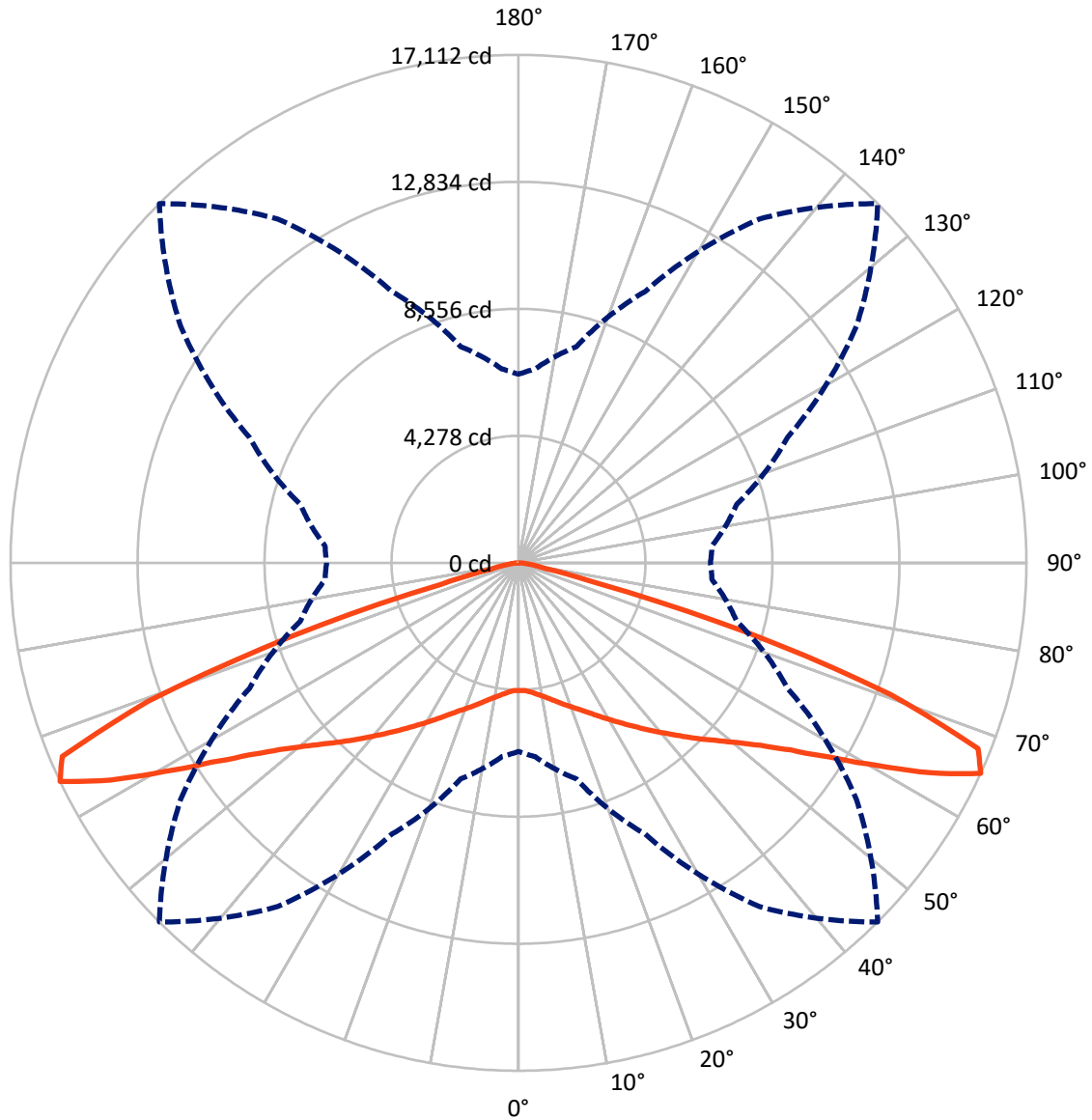
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 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	18093.3	0.0	18093.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18093.3	0.0	18093.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	36186.6	0.0	36186.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	425.0	1.2
10°-20°	1386.9	3.8
20°-30°	2618.5	7.2
30°-40°	4287.8	11.8
40°-50°	6648.3	18.4
50°-60°	9820.9	27.1
60°-70°	9348.5	25.8
70°-80°	1508.5	4.2
80°-90°	142.2	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°	36186.6	100.0
0°-180°	36186.6	100.0

Coefficient of Utilization



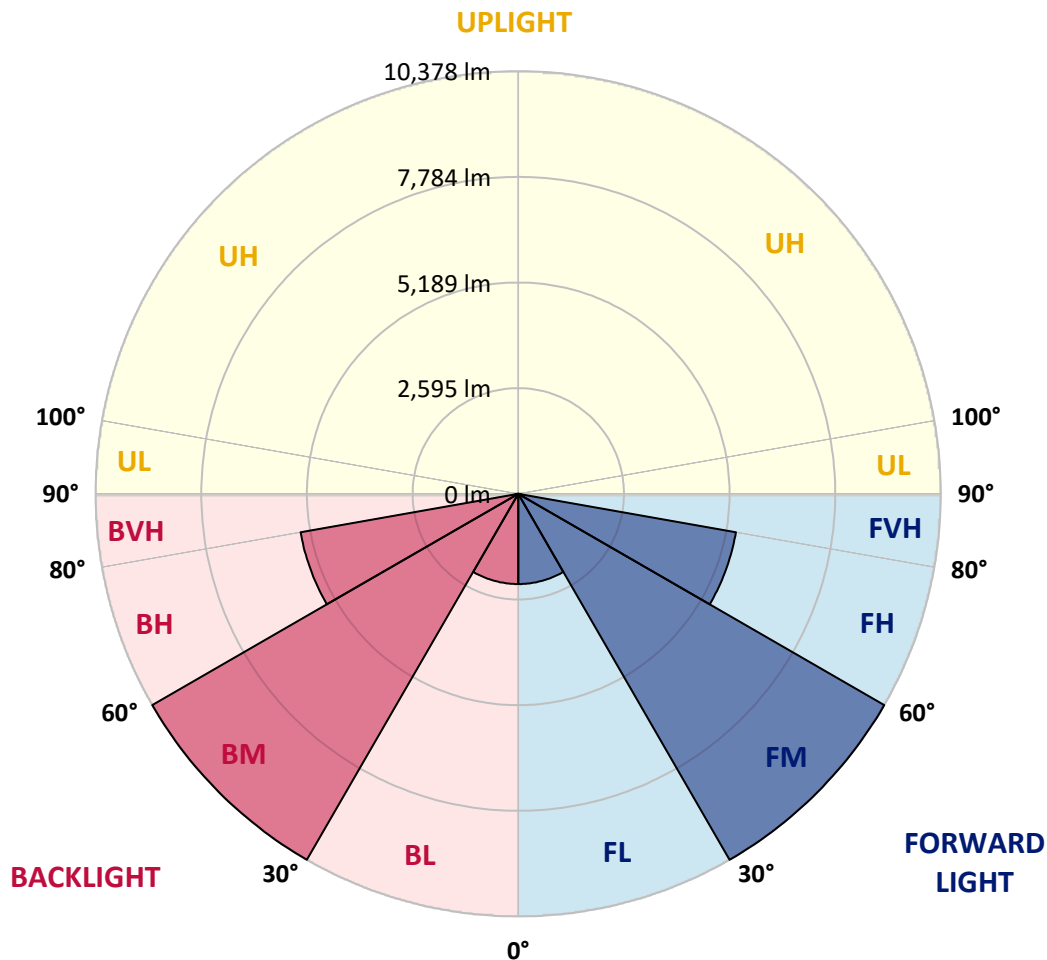
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2215.2	6.1			
FM (30°-60°)	10378.5	28.7			
FH (60°-80°)	5428.5	15.0			G3/7500
FVH (80°-90°)	71.1	0.2			G1/100
BL (0°-30°)	2215.2	6.1	B3/2500		
BM (30°-60°)	10378.5	28.7	B5		
BH (60°-80°)	5428.5	15.0	B5		G3/7500
BVH (80°-90°)	71.1	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°	4306.5	4306.5	4306.5	4306.5	4306.5	4306.5	4306.5	4306.5	4306.5	4306.5	4306.5
2.5°	4335.6	4321.1	4332.0	4322.9	4315.7	4308.4	4312.0	4324.7	4330.2	4332.0	4332.0
5°	4393.8	4381.1	4386.5	4386.5	4373.8	4370.1	4371.9	4381.1	4391.9	4391.9	4391.9
7.5°	4488.2	4475.5	4488.2	4480.9	4469.9	4466.3	4464.5	4471.8	4488.2	4488.2	4482.6
10°	4602.6	4588.0	4595.3	4591.6	4578.9	4573.4	4571.6	4582.6	4597.0	4595.3	4591.6
12.5°	4727.8	4711.4	4720.5	4709.7	4706.0	4700.5	4700.5	4698.7	4707.8	4700.5	4704.1
15°	4867.6	4856.7	4860.3	4853.1	4858.5	4854.9	4840.4	4833.1	4836.7	4825.8	4827.6
17.5°	5032.9	5007.4	5020.1	5016.5	5016.5	5023.7	5000.2	4991.0	4998.3	4987.4	4996.5
20°	5223.4	5198.0	5203.5	5196.2	5187.1	5194.4	5165.4	5172.6	5178.1	5170.8	5187.1
22.5°	5432.2	5399.6	5397.8	5401.3	5381.4	5383.2	5363.2	5381.4	5392.3	5372.3	5392.3
25°	5646.5	5612.0	5635.6	5626.5	5601.1	5606.5	5592.0	5610.1	5619.3	5593.8	5622.8
27.5°	5873.5	5849.8	5871.6	5877.0	5846.2	5867.9	5846.2	5862.5	5871.6	5833.5	5862.5
30°	6138.5	6114.8	6134.8	6149.4	6113.1	6147.5	6129.4	6140.3	6142.1	6096.7	6124.0
32.5°	6427.2	6390.9	6441.7	6449.0	6409.0	6450.7	6427.2	6441.7	6450.7	6389.0	6430.8
35°	6779.4	6734.0	6792.1	6783.0	6748.5	6783.0	6761.2	6783.0	6804.8	6730.4	6775.8
37.5°	7158.8	7111.7	7173.4	7157.1	7124.4	7147.9	7135.2	7149.8	7184.2	7104.4	7153.4
40°	7576.4	7518.4	7601.8	7572.8	7541.9	7538.3	7545.5	7554.7	7600.1	7511.1	7540.1
42.5°	8023.1	7961.4	8086.6	8041.2	7997.7	7968.6	7992.2	8010.4	8053.9	7954.1	8006.7
45°	8533.2	8462.4	8625.9	8571.4	8502.4	8442.5	8480.6	8507.8	8571.4	8451.5	8513.2
47.5°	9096.1	9016.2	9190.5	9174.2	9061.6	8930.8	9018.1	9096.1	9143.3	8998.1	9047.1
50°	9646.2	9584.5	9813.2	9833.2	9695.3	9511.9	9633.5	9751.5	9764.3	9573.6	9597.2
52.5°	10161.8	10100.1	10432.3	10557.6	10434.2	10216.3	10345.2	10465.0	10368.8	10121.9	10129.2
55°	10574.0	10523.2	10946.2	11269.4	11311.1	11131.4	11207.6	11204.0	10888.1	10508.6	10521.3
57.5°	10673.8	10666.6	11200.4	11884.8	12320.6	12342.3	12191.7	11806.8	11125.9	10615.7	10583.0
60°	10220.0	10265.3	10998.8	12206.2	13368.2	13851.1	13199.3	12100.8	10855.4	10147.3	10063.8
62.5°	8861.8	8981.7	9865.9	11814.0	14214.2	15586.8	14007.2	11654.2	9744.3	8820.1	8765.6
65°	6350.9	6559.7	7536.5	10081.9	14137.9	17111.9	13891.0	10000.2	7609.1	6543.4	6465.3
67.5°	2881.4	3093.8	3923.5	6902.9	12289.6	16698.0	12260.6	6975.4	4119.6	3104.6	3059.2
70°	1044.0	1080.2	1347.2	2763.3	7854.3	13304.6	8190.1	2783.3	1432.5	1151.1	1136.5
72.5°	631.8	637.2	693.5	989.5	2728.9	8077.5	2845.0	1022.1	708.1	628.2	639.1
75°	401.3	397.6	493.8	604.5	967.7	2725.2	1015.0	604.5	492.0	448.4	452.1
77.5°	288.6	297.8	354.0	452.1	610.1	924.1	599.1	432.1	354.0	290.5	295.9
80°	216.1	221.5	257.8	352.2	428.4	575.5	381.3	319.5	266.9	181.5	187.0
82.5°	156.1	156.1	168.8	256.0	261.5	310.5	206.9	225.1	176.1	128.9	128.9
85°	92.6	90.8	105.3	152.5	136.1	114.4	94.4	138.0	110.7	79.8	78.1
87.5°	32.7	34.5	32.7	43.6	36.3	30.9	29.0	38.1	30.9	27.3	25.4
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)