

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: P966566

Luminaire Tested: **NAV-SB4C-722-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P966566
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-SB4C-722-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 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: 26631.6 lumens
Efficiency: N/A
Efficacy: 132.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

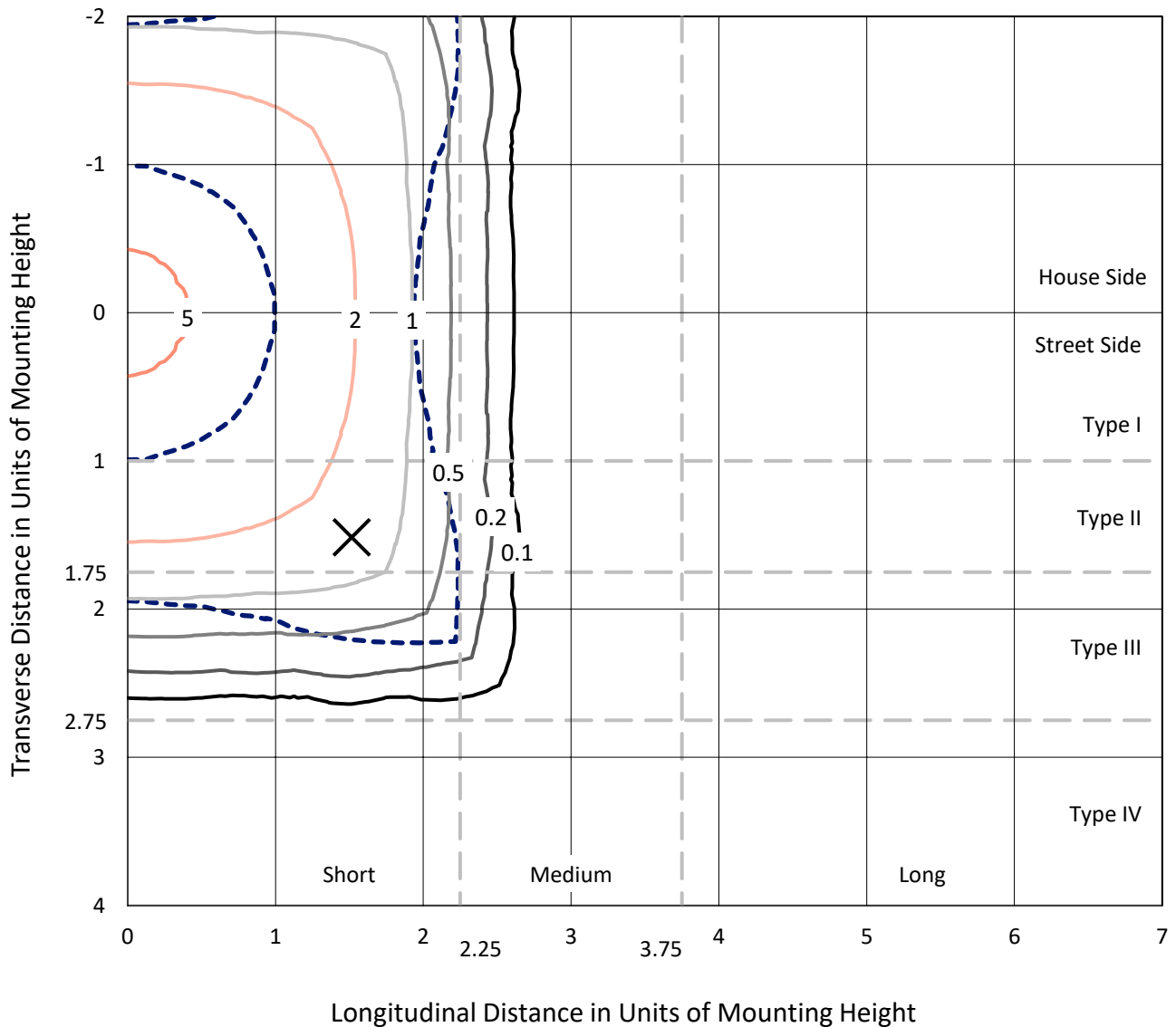
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

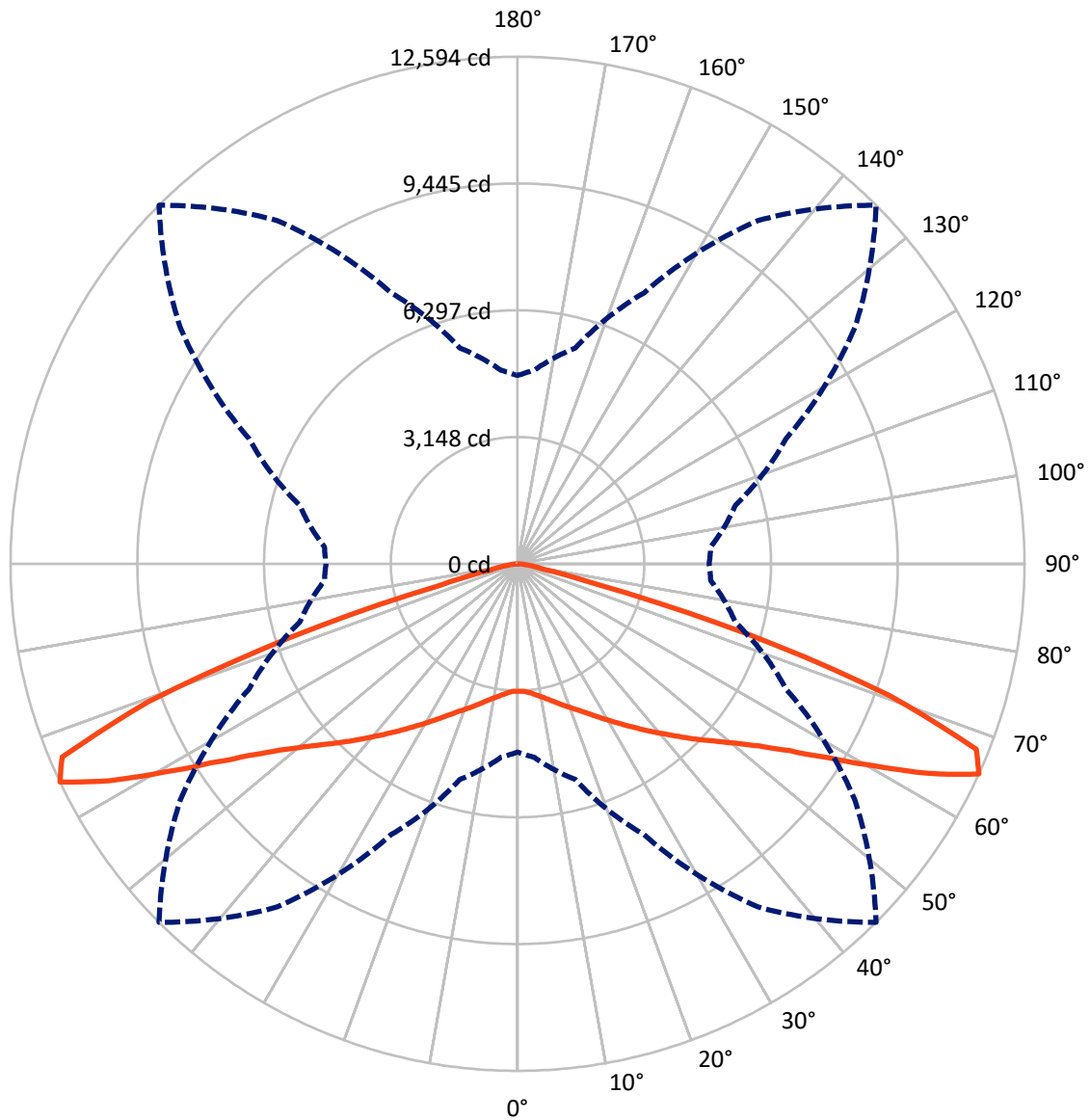
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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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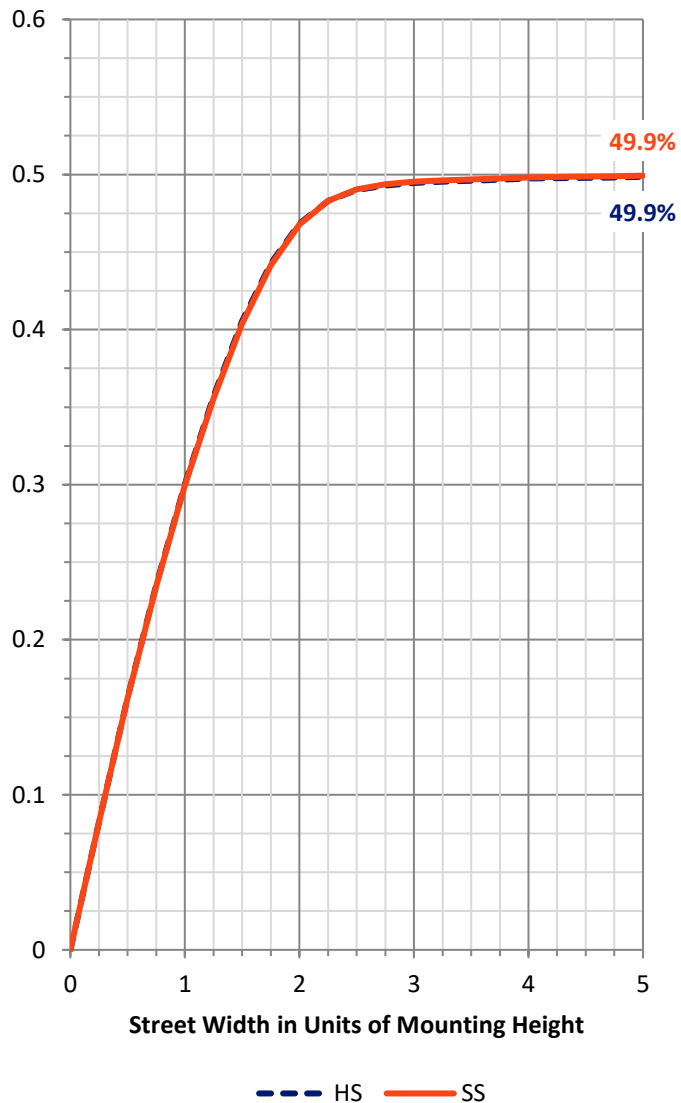
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13315.8	0.0	13315.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13315.8	0.0	13315.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	26631.6	0.0	26631.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	312.8	1.2
10°-20°	1020.7	3.8
20°-30°	1927.1	7.2
30°-40°	3155.6	11.8
40°-50°	4892.8	18.4
50°-60°	7227.7	27.1
60°-70°	6880.1	25.8
70°-80°	1110.2	4.2
80°-90°	104.7	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°	26631.6	100.0
0°-180°	26631.6	100.0

Coefficient of Utilization

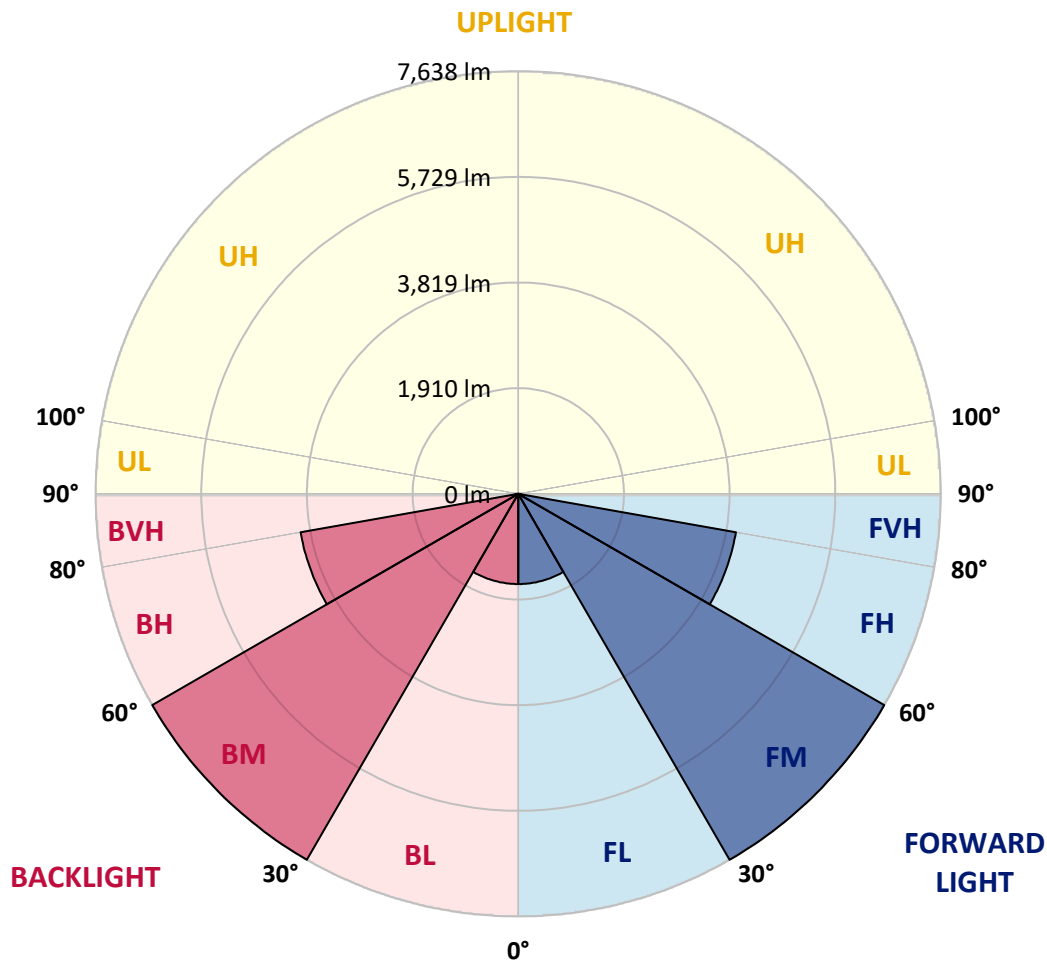


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1630.3	6.1			
FM (30°-60°)	7638.0	28.7			
FH (60°-80°)	3995.1	15.0			G2/5000
FVH (80°-90°)	52.3	0.2			G1/100
BL (0°-30°)	1630.3	6.1	B3/2500		
BM (30°-60°)	7638.0	28.7	B4/8500		
BH (60°-80°)	3995.1	15.0	B4/5000		G2/5000
BVH (80°-90°)	52.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2
 Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3169.4	3169.4	3169.4	3169.4	3169.4	3169.4	3169.4	3169.4	3169.4	3169.4	3169.4
2.5°	3190.8	3180.1	3188.2	3181.5	3176.1	3170.7	3173.4	3182.8	3186.8	3188.2	3188.2
5°	3233.6	3224.2	3228.2	3228.2	3218.9	3216.1	3217.5	3224.2	3232.2	3232.2	3232.2
7.5°	3303.1	3293.7	3303.1	3297.7	3289.6	3287.0	3285.6	3291.0	3303.1	3303.1	3299.1
10°	3387.2	3376.6	3381.9	3379.2	3369.9	3365.8	3364.5	3372.6	3383.2	3381.9	3379.2
12.5°	3479.5	3467.4	3474.0	3466.0	3463.4	3459.4	3459.4	3458.0	3464.7	3459.4	3462.0
15°	3582.3	3574.3	3576.9	3571.6	3575.6	3572.9	3562.3	3557.0	3559.6	3551.5	3552.9
17.5°	3703.9	3685.2	3694.5	3691.8	3691.8	3697.2	3679.9	3673.2	3678.5	3670.5	3677.2
20°	3844.2	3825.5	3829.5	3824.2	3817.5	3822.8	3801.4	3806.7	3810.7	3805.4	3817.5
22.5°	3997.8	3973.8	3972.5	3975.2	3960.4	3961.7	3947.1	3960.4	3968.5	3953.7	3968.5
25°	4155.6	4130.1	4147.5	4140.8	4122.1	4126.1	4115.5	4128.8	4135.5	4116.8	4138.1
27.5°	4322.5	4305.2	4321.2	4325.2	4302.5	4318.5	4302.5	4314.5	4321.2	4293.1	4314.5
30°	4517.6	4500.3	4514.9	4525.7	4498.9	4524.3	4510.9	4518.9	4520.2	4486.9	4506.9
32.5°	4730.1	4703.3	4740.7	4746.2	4716.7	4747.5	4730.1	4740.7	4747.5	4702.0	4732.7
35°	4989.3	4955.9	4998.6	4992.0	4966.5	4992.0	4976.0	4992.0	5008.0	4953.2	4986.6
37.5°	5268.6	5233.9	5279.3	5267.3	5243.2	5260.5	5251.2	5261.8	5287.3	5228.5	5264.5
40°	5575.9	5533.2	5594.6	5573.2	5550.5	5547.8	5553.1	5559.8	5593.2	5527.8	5549.1
42.5°	5904.6	5859.1	5951.4	5917.9	5885.9	5864.5	5881.9	5895.2	5927.3	5853.8	5892.5
45°	6280.1	6227.9	6348.2	6308.2	6257.3	6213.2	6241.3	6261.3	6308.2	6219.9	6265.3
47.5°	6694.3	6635.4	6763.8	6751.7	6668.9	6572.7	6636.8	6694.3	6729.0	6622.1	6658.2
50°	7099.2	7053.7	7222.0	7236.7	7135.2	7000.2	7089.8	7176.6	7186.0	7045.6	7063.1
52.5°	7478.6	7433.2	7677.7	7769.9	7679.0	7518.7	7613.6	7701.7	7630.9	7449.2	7454.5
55°	7781.9	7744.5	8055.9	8293.7	8324.4	8192.1	8248.3	8245.6	8013.0	7733.8	7743.2
57.5°	7855.4	7850.1	8242.9	8746.6	9067.4	9083.3	8972.4	8689.2	8188.1	7812.7	7788.6
60°	7521.3	7554.8	8094.6	8983.1	9838.3	10193.7	9714.0	8905.6	7989.1	7467.9	7406.4
62.5°	6521.9	6610.1	7260.8	8694.6	10460.9	11471.1	10308.6	8577.0	7171.3	6491.1	6451.0
65°	4674.0	4827.6	5546.5	7419.8	10404.9	12593.5	10223.1	7359.7	5599.9	4815.6	4758.2
67.5°	2120.5	2276.8	2887.5	5080.2	9044.6	12288.8	9023.3	5133.6	3031.7	2284.8	2251.5
70°	768.3	795.0	991.5	2033.7	5780.3	9791.5	6027.5	2048.4	1054.2	847.2	836.4
72.5°	464.9	469.0	510.4	728.3	2008.3	5944.7	2093.8	752.2	521.1	462.3	470.4
75°	295.3	292.6	363.5	445.0	712.2	2005.6	746.9	445.0	362.1	330.0	332.7
77.5°	212.5	219.1	260.6	332.7	449.0	680.1	441.0	318.1	260.6	213.8	217.8
80°	159.0	163.0	189.7	259.2	315.3	423.5	280.6	235.1	196.4	133.7	137.7
82.5°	114.9	114.9	124.2	188.4	192.4	228.5	152.3	165.6	129.6	94.9	94.9
85°	68.2	66.8	77.5	112.2	100.2	84.2	69.5	101.6	81.5	58.8	57.5
87.5°	24.1	25.4	24.1	32.1	26.8	22.8	21.4	28.1	22.8	20.1	18.8
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)