

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: P967092

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

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P967092
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB4D-722-U-5MQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36165.1 lumens
Efficiency: N/A
Efficacy: 123.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

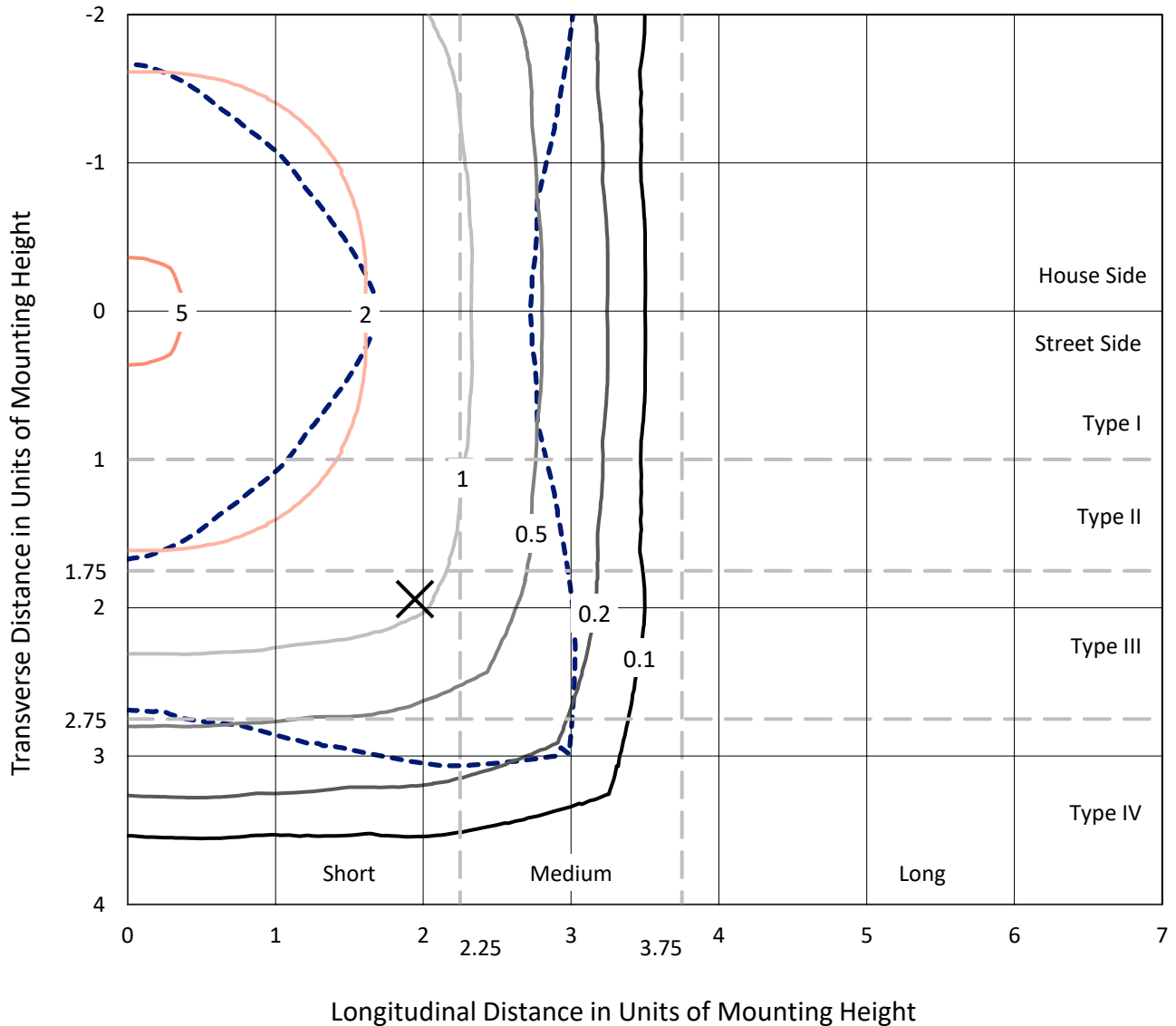
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

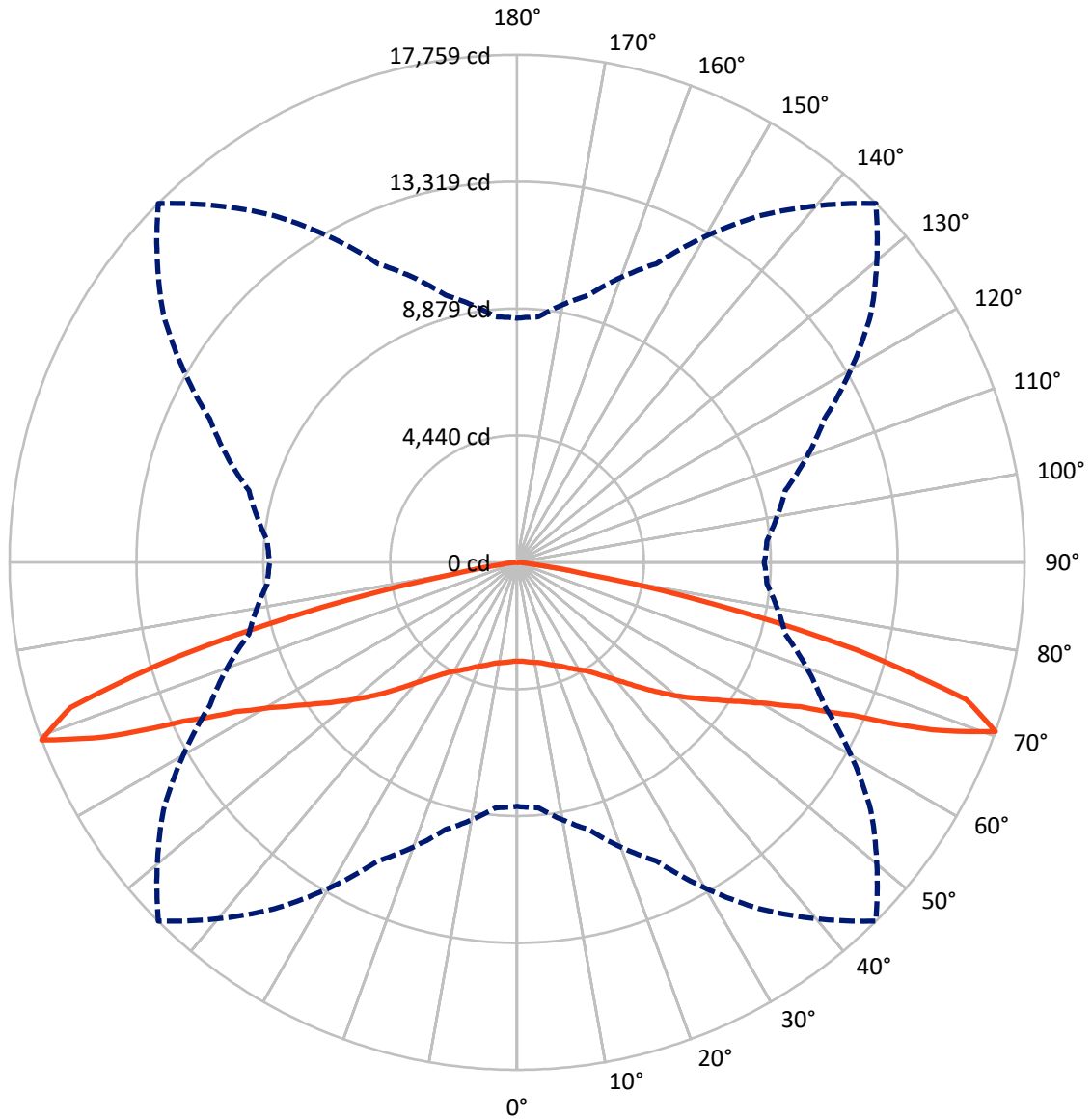
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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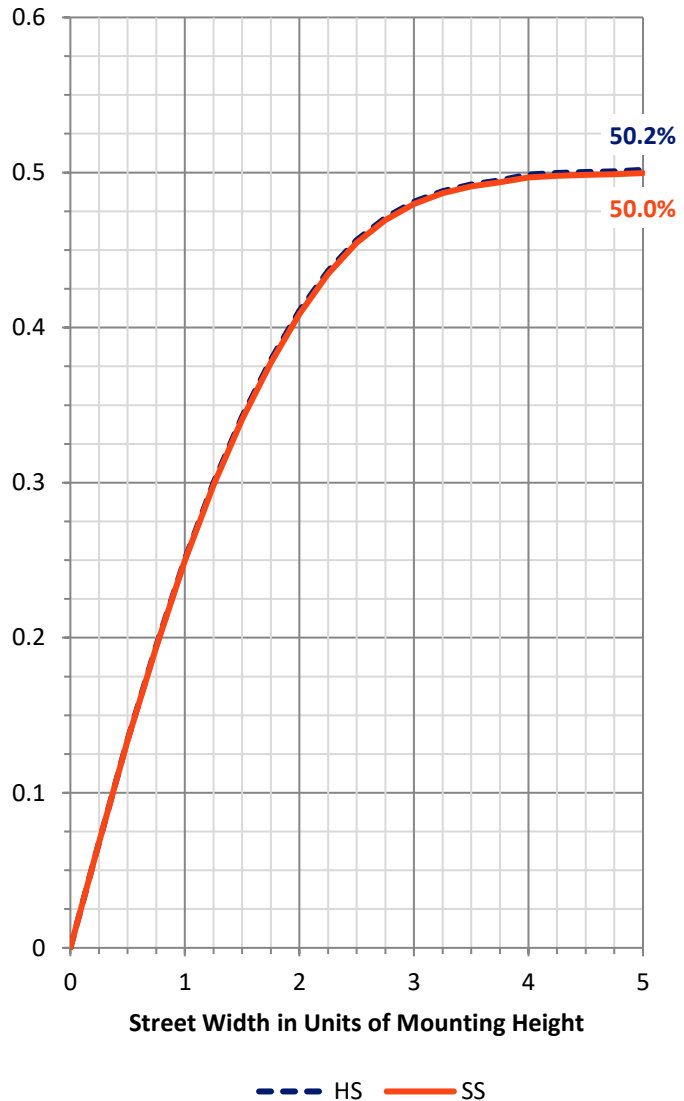
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18082.5	0.0	18082.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18082.5	0.0	18082.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	36165.1	0.0	36165.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	336.5	0.9
10°-20°	1043.6	2.9
20°-30°	1865.0	5.2
30°-40°	3023.2	8.4
40°-50°	4924.3	13.6
50°-60°	7507.9	20.8
60°-70°	11169.4	30.9
70°-80°	6087.7	16.8
80°-90°	207.3	0.6
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°	36165.1	100.0
0°-180°	36165.1	100.0

Coefficient of Utilization

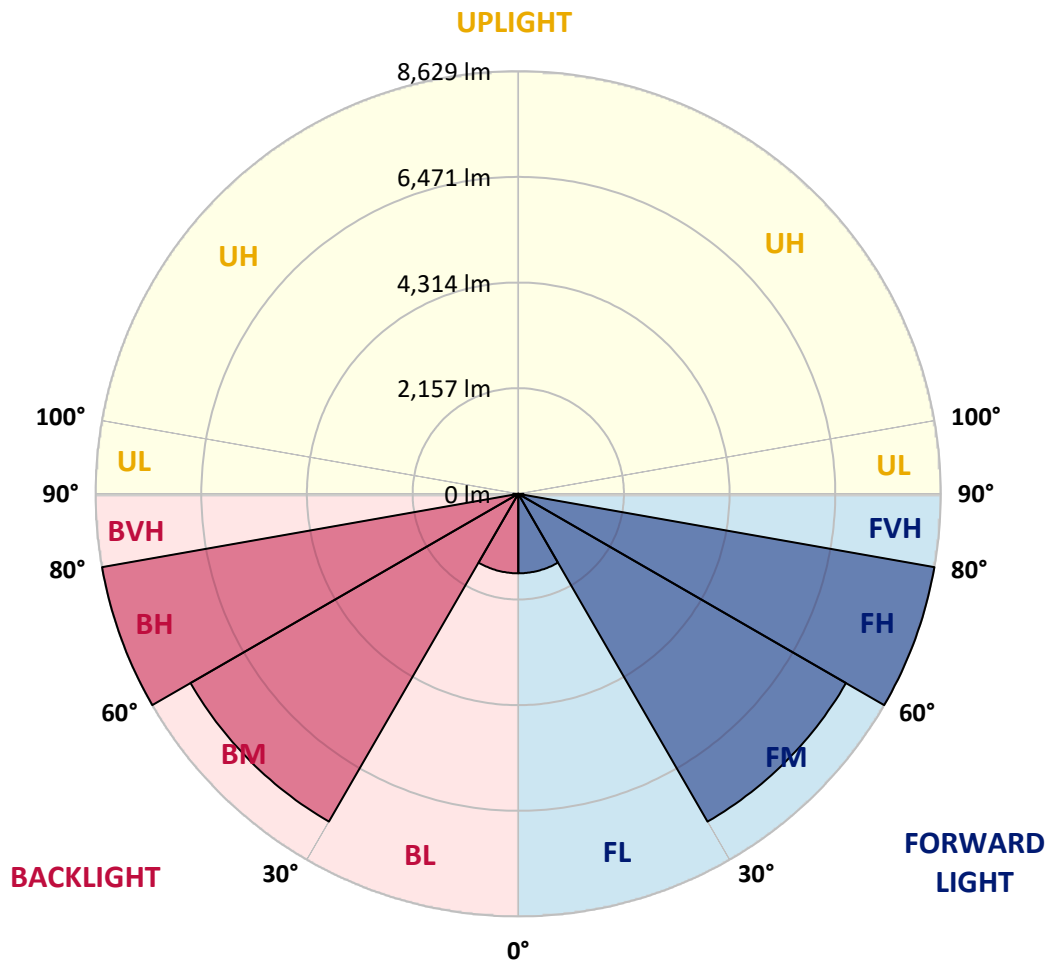


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1622.6	4.5			
FM (30°-60°)	7727.7	21.4			
FH (60°-80°)	8628.5	23.9			G4/12000
FVH (80°-90°)	103.7	0.3			G2/225
BL (0°-30°)	1622.6	4.5	B3/2500		
BM (30°-60°)	7727.7	21.4	B4/8500		
BH (60°-80°)	8628.5	23.9	B5		G4/12000
BVH (80°-90°)	103.7	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4
 Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3464.2	3464.2	3464.2	3464.2	3464.2	3464.2	3464.2	3464.2	3464.2	3464.2	3464.2
2.5°	3480.6	3484.2	3476.9	3473.3	3469.7	3464.2	3466.0	3475.2	3482.4	3480.6	3482.4
5°	3509.6	3513.3	3507.9	3506.0	3498.7	3496.9	3496.9	3506.0	3511.4	3507.9	3509.6
7.5°	3542.3	3547.7	3538.7	3536.9	3533.3	3529.6	3527.7	3536.9	3542.3	3542.3	3542.3
10°	3573.2	3578.6	3571.4	3565.9	3562.3	3562.3	3558.7	3565.9	3575.0	3573.2	3573.2
12.5°	3605.8	3609.5	3602.3	3598.6	3598.6	3604.0	3598.6	3602.3	3609.5	3605.8	3604.0
15°	3645.8	3647.7	3645.8	3651.3	3660.4	3678.5	3662.1	3658.5	3662.1	3653.1	3653.1
17.5°	3700.2	3703.9	3711.2	3723.9	3736.5	3769.2	3740.2	3731.1	3731.1	3713.0	3713.0
20°	3767.5	3772.9	3783.8	3805.6	3821.9	3852.8	3823.8	3811.1	3805.6	3781.9	3781.9
22.5°	3838.2	3847.3	3863.6	3892.7	3921.8	3950.9	3921.8	3900.0	3883.6	3852.8	3850.9
25°	3920.0	3930.9	3956.3	4003.4	4043.4	4085.1	4050.7	4007.1	3974.4	3930.9	3929.0
27.5°	4036.1	4048.9	4079.7	4137.8	4188.7	4224.9	4192.4	4136.0	4090.7	4038.0	4036.1
30°	4199.5	4212.2	4248.6	4310.3	4344.9	4368.4	4346.6	4303.1	4248.6	4188.7	4188.7
32.5°	4410.2	4426.6	4466.4	4524.6	4531.8	4535.4	4528.2	4506.4	4466.4	4393.9	4395.7
35°	4677.1	4695.2	4740.6	4787.9	4780.6	4787.9	4776.9	4769.7	4740.6	4657.1	4657.1
37.5°	5003.9	5025.7	5072.9	5109.2	5091.1	5082.0	5083.8	5085.6	5069.2	4976.7	4976.7
40°	5383.4	5412.4	5447.0	5485.1	5454.2	5427.0	5445.1	5459.7	5445.1	5350.7	5350.7
42.5°	5773.7	5815.5	5851.8	5906.3	5880.8	5846.4	5871.8	5888.1	5857.3	5755.6	5762.9
45°	6207.7	6247.6	6294.8	6376.5	6358.4	6322.1	6358.4	6362.0	6309.4	6189.6	6202.3
47.5°	6656.1	6697.9	6768.7	6877.6	6870.4	6830.4	6877.6	6852.2	6785.1	6641.6	6632.6
50°	7081.0	7139.1	7248.1	7400.5	7415.1	7366.1	7429.6	7380.6	7268.0	7088.3	7084.6
52.5°	7480.4	7542.2	7714.7	7921.6	7974.3	7910.7	7996.0	7910.7	7741.9	7511.3	7489.5
55°	7899.9	7968.9	8174.0	8444.6	8549.8	8502.7	8582.5	8453.6	8213.9	7934.3	7896.2
57.5°	8393.7	8435.4	8680.6	9002.0	9179.9	9190.8	9227.0	9009.2	8718.6	8401.0	8357.3
60°	8929.3	8987.4	9254.3	9639.2	9920.7	10011.5	9973.4	9650.2	9312.4	8947.4	8889.4
62.5°	9615.6	9679.2	9998.8	10459.9	10904.8	11129.9	10981.0	10512.5	10094.9	9657.3	9581.1
65°	10183.9	10254.7	10832.1	11654.6	12464.4	12916.4	12542.4	11680.0	10928.3	10311.0	10209.3
67.5°	9771.7	9859.0	10765.0	12275.5	14289.1	15638.1	14358.1	12460.7	10988.2	10151.2	10025.9
70°	8540.8	8622.5	9679.2	11525.7	14802.9	17758.7	15111.6	11865.2	9713.7	8776.8	8651.5
72.5°	5670.2	5933.5	7002.9	9218.0	13217.9	16433.3	13348.6	9031.0	6496.3	5657.5	5474.1
75°	1881.0	2091.6	2821.5	4778.8	8853.0	12290.1	8428.2	4228.6	2235.0	1608.6	1521.5
77.5°	473.9	546.5	753.5	1367.1	3531.4	6997.5	3179.1	1116.6	608.2	424.9	379.5
80°	230.6	254.2	363.2	455.7	884.3	2224.1	829.7	428.4	286.9	221.5	203.4
82.5°	127.1	128.9	205.2	257.8	328.6	575.5	341.3	250.5	165.2	134.4	134.4
85°	78.1	76.3	109.0	138.0	138.0	205.2	163.4	138.0	94.4	83.5	87.1
87.5°	30.9	30.9	40.0	43.6	38.1	52.7	41.7	45.4	36.3	34.5	36.3
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)