

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: P966054

Luminaire Tested: **NAV-SB4B-722-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P966054
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-SB4B-722-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18904.1 lumens
Efficiency: N/A
Efficacy: 128.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

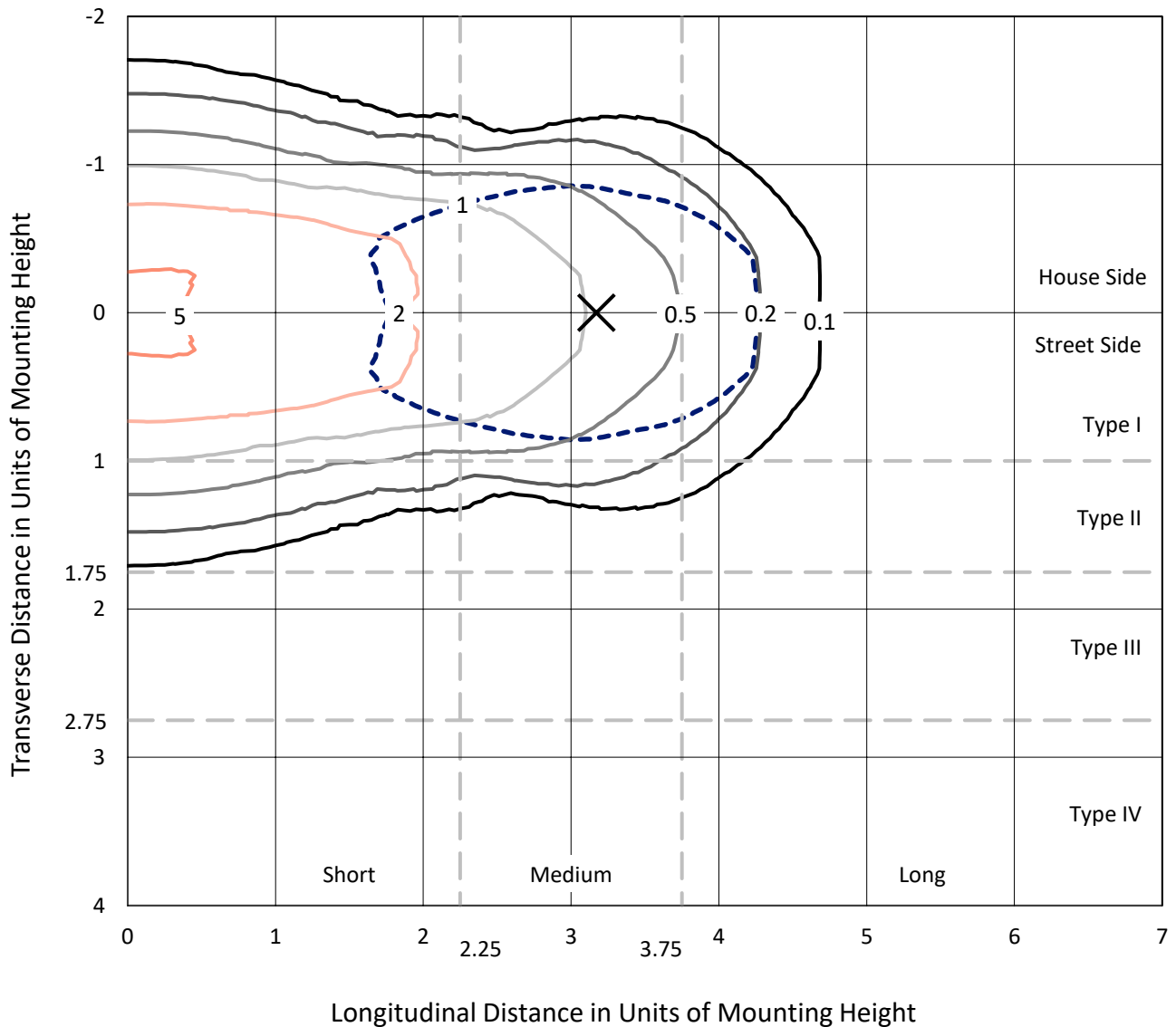
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

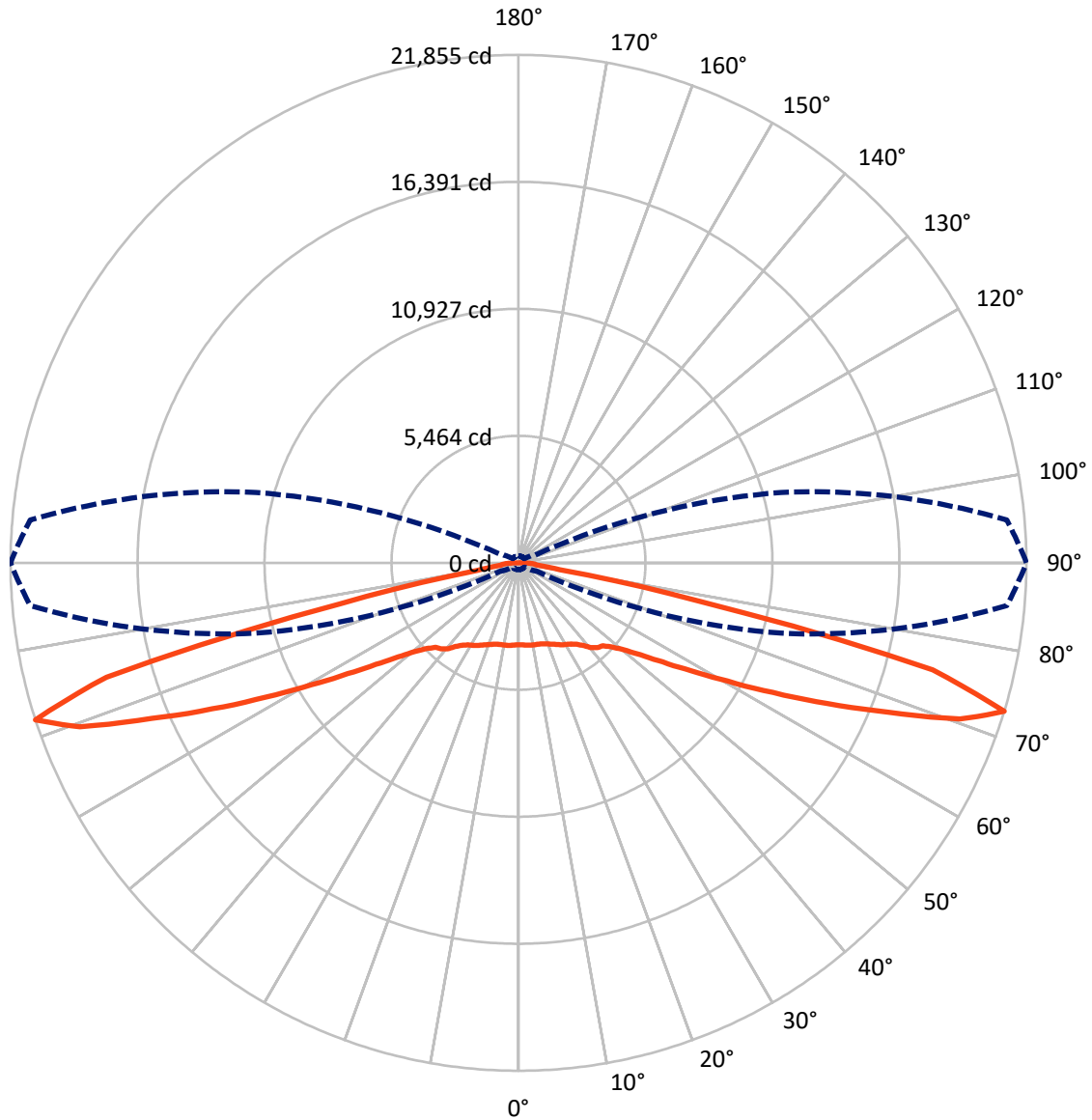
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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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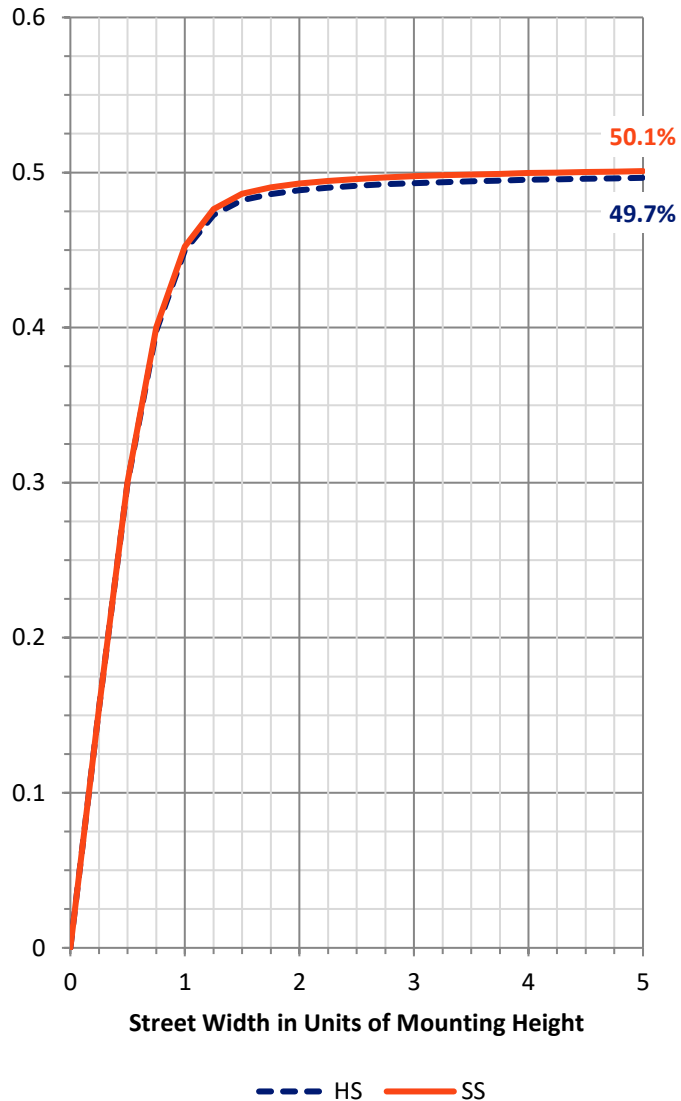
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9452.0	0.0	9452.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9452.0	0.0	9452.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	18904.1	0.0	18904.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	342.5	1.8
10°-20°	1047.3	5.5
20°-30°	1746.2	9.2
30°-40°	2401.6	12.7
40°-50°	2933.0	15.5
50°-60°	3392.3	17.9
60°-70°	4044.8	21.4
70°-80°	2823.0	14.9
80°-90°	173.4	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°	18904.1	100.0
0°-180°	18904.1	100.0

Coefficient of Utilization

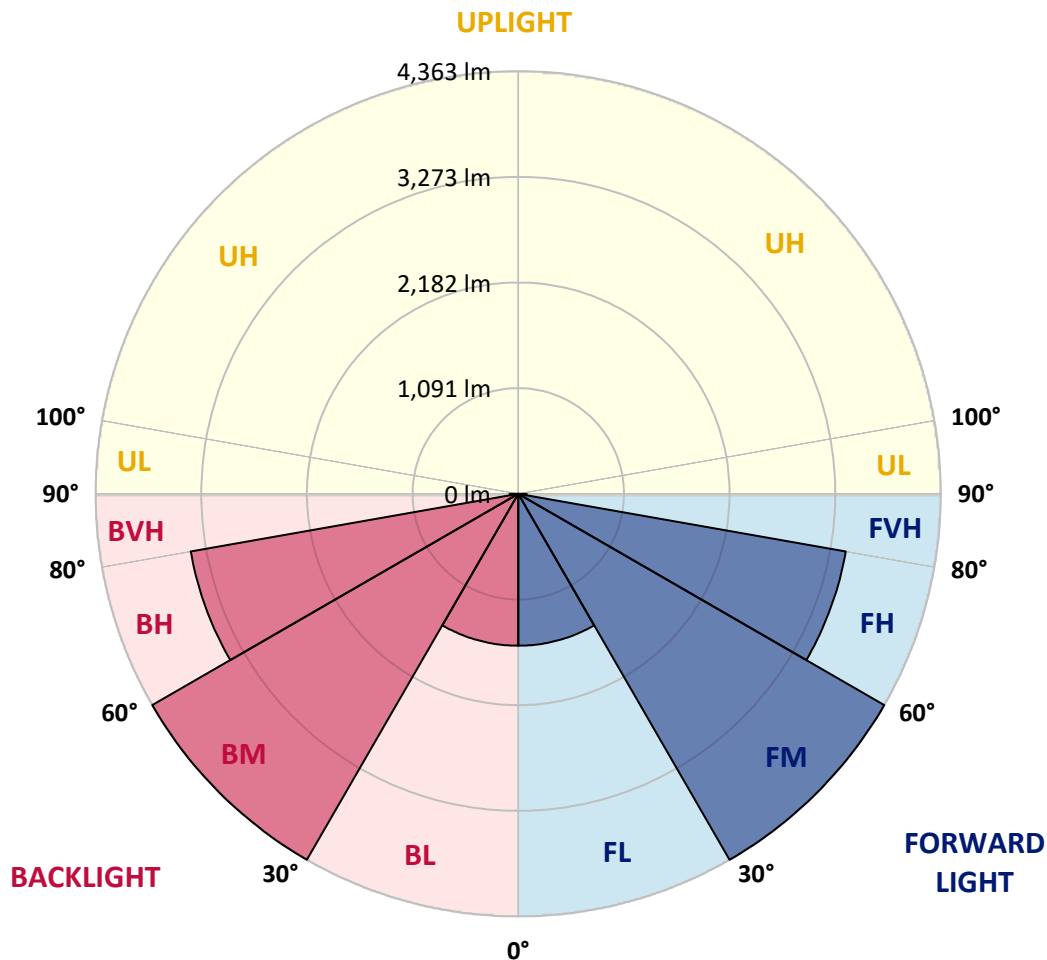


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1568.0	8.3			
FM (30°-60°)	4363.5	23.1			
FH (60°-80°)	3433.9	18.2			G2/5000
FVH (80°-90°)	86.7	0.5			G1/100
BL (0°-30°)	1568.0	8.3	B3/2500		
BM (30°-60°)	4363.5	23.1	B3/5000		
BH (60°-80°)	3433.9	18.2	B4/5000		G4/5000
BVH (80°-90°)	86.7	0.5			G1/100
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°	3532.5	3532.5	3532.5	3532.5	3532.5	3532.5	3532.5	3532.5	3532.5	3532.5	3532.5
2.5°	3535.4	3539.4	3539.4	3536.5	3543.5	3537.5	3537.5	3534.4	3537.5	3534.4	3534.4
5°	3553.6	3558.6	3560.5	3559.5	3568.6	3563.6	3563.6	3559.5	3560.5	3557.6	3557.6
7.5°	3587.7	3594.7	3598.8	3603.8	3616.8	3610.8	3606.8	3594.7	3589.7	3581.7	3581.7
10°	3598.8	3606.8	3619.8	3645.9	3676.1	3677.1	3665.1	3634.9	3611.8	3593.8	3590.7
12.5°	3564.5	3575.6	3602.8	3656.0	3723.3	3750.5	3731.3	3681.1	3635.9	3603.8	3598.8
15°	3521.4	3533.4	3574.6	3654.9	3754.5	3817.7	3815.8	3749.4	3677.1	3626.9	3618.9
17.5°	3454.0	3466.1	3525.4	3637.9	3778.6	3883.0	3911.2	3842.8	3741.4	3674.1	3663.0
20°	3332.5	3343.6	3426.0	3583.7	3786.7	3952.4	4025.7	3965.4	3838.8	3747.4	3730.4
22.5°	3174.7	3191.8	3288.3	3490.2	3767.5	4024.8	4156.4	4115.2	3952.4	3825.8	3802.6
25°	3006.0	3024.1	3136.6	3375.7	3718.3	4076.9	4311.0	4284.9	4080.9	3923.3	3891.1
27.5°	2860.3	2879.4	3001.9	3262.2	3641.9	4097.0	4463.8	4476.8	4236.7	4030.7	3996.6
30°	2745.8	2763.8	2894.5	3170.7	3543.5	4076.9	4597.3	4687.8	4395.4	4124.2	4075.0
32.5°	2620.2	2643.3	2780.9	3059.2	3427.0	4028.8	4713.9	4915.9	4579.3	4224.6	4162.3
35°	2461.4	2482.5	2627.2	2906.5	3274.3	3951.4	4811.3	5169.1	4842.5	4377.4	4308.1
37.5°	2268.5	2288.6	2432.3	2715.6	3122.6	3842.8	4885.8	5454.3	5156.0	4597.3	4505.0
40°	2074.6	2093.8	2228.4	2502.6	2940.7	3704.2	4911.8	5733.6	5515.6	4899.8	4801.3
42.5°	1896.9	1913.9	2037.5	2292.6	2736.7	3527.4	4877.7	5976.8	5838.2	5110.8	4984.2
45°	1733.1	1748.1	1857.6	2095.7	2524.8	3312.4	4775.2	6238.0	6222.0	5261.4	5090.7
47.5°	1546.2	1561.3	1674.7	1904.9	2312.7	3060.2	4601.4	6495.2	6755.4	5603.1	5406.2
50°	1318.1	1331.2	1447.7	1684.8	2092.7	2792.0	4360.2	6697.1	7428.6	6120.5	5873.4
52.5°	1047.9	1061.9	1175.5	1412.6	1831.5	2503.7	4042.8	6828.8	8206.2	6876.0	6571.6
55°	779.6	789.7	888.2	1101.2	1508.0	2175.2	3644.9	6866.0	9088.3	7908.8	7528.0
57.5°	565.6	571.6	635.0	793.7	1143.3	1764.2	3161.7	6769.5	10138.2	9232.9	8753.7
60°	458.2	460.1	479.2	549.6	794.7	1300.0	2578.0	6437.9	11277.5	10939.8	10336.1
62.5°	415.9	415.9	421.0	440.0	537.5	858.0	1871.8	5750.8	12499.2	13096.9	12288.1
65°	386.8	386.8	388.8	397.8	423.9	546.5	1181.5	4631.6	13528.9	15623.7	14600.9
67.5°	360.7	361.7	360.7	363.7	378.7	403.8	685.2	3198.9	14083.5	18241.8	17137.7
70°	333.5	335.6	330.6	330.6	342.6	343.6	429.0	1754.2	13623.4	20436.0	20145.7
72.5°	301.5	304.4	296.3	294.4	303.4	299.4	322.5	841.9	11696.4	21091.1	21854.6
75°	273.3	277.3	259.2	254.2	254.2	251.1	262.2	432.0	7591.3	17205.0	18402.5
77.5°	248.2	256.1	227.0	210.9	206.9	197.9	214.0	264.2	3320.5	8077.5	7909.8
80°	205.0	216.0	186.9	167.8	160.7	150.7	168.8	184.9	987.6	1875.7	1796.3
82.5°	152.7	157.7	132.6	119.5	113.6	106.5	126.6	128.6	321.5	664.1	750.5
85°	97.5	99.4	81.4	70.3	67.3	64.3	80.4	70.3	122.6	488.3	709.3
87.5°	34.1	39.2	31.2	28.1	30.1	25.1	37.2	21.1	34.1	344.6	427.0
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)