

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: P964070

Luminaire Tested: **NAV-SB3B-740-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964070
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-SB3B-740-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18125.1 lumens
Efficiency: N/A
Efficacy: 166.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

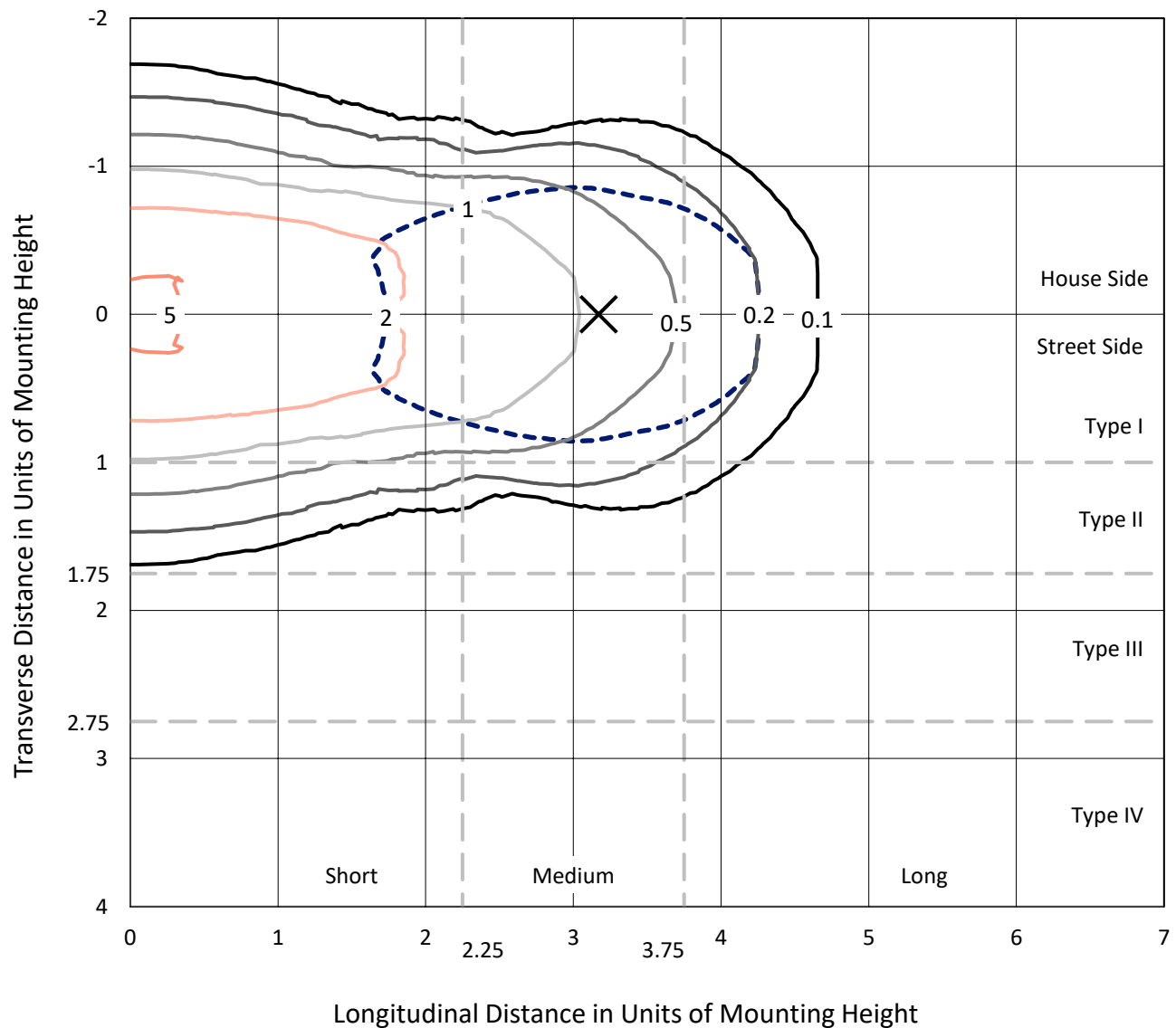
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

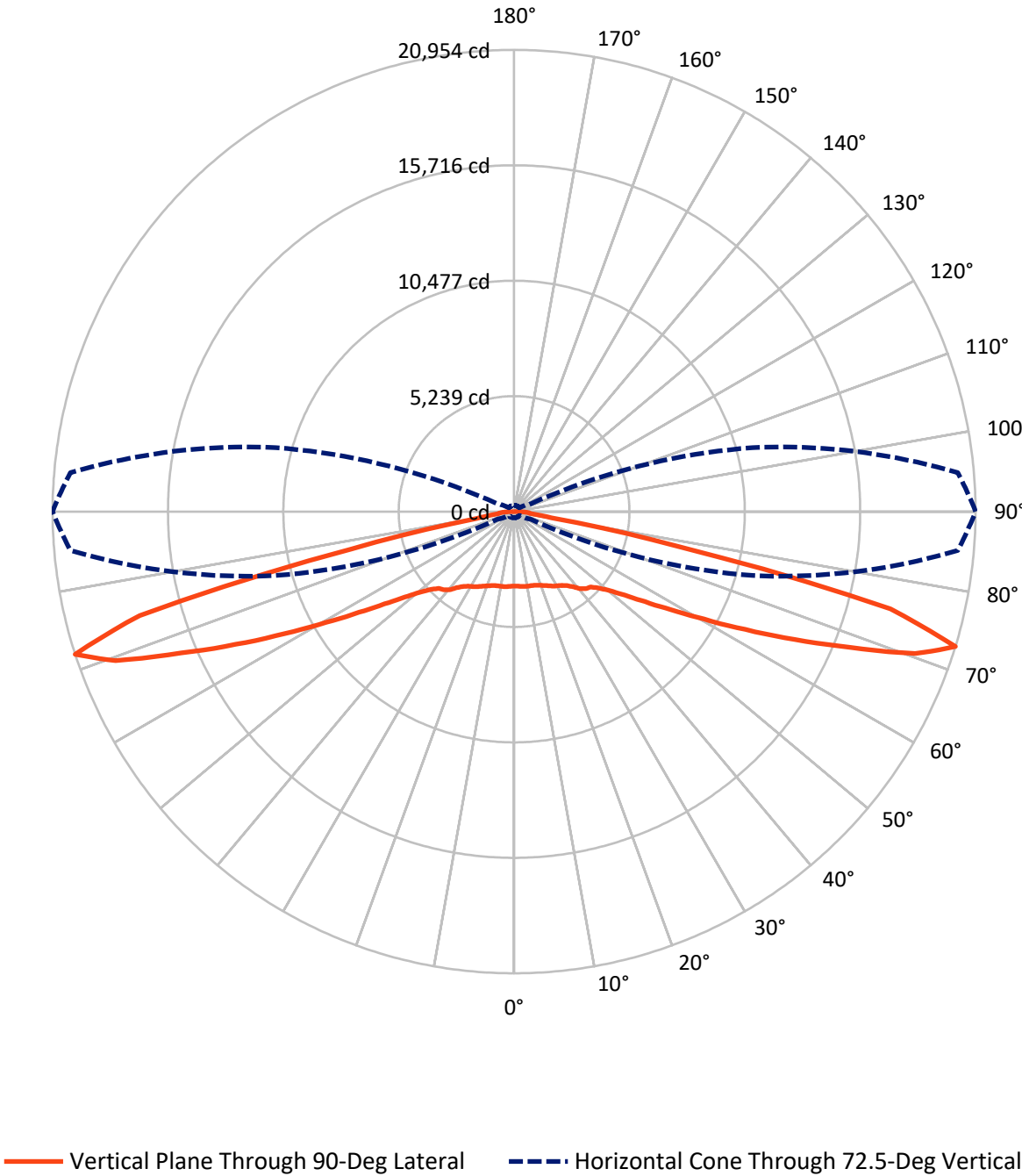
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
Type I - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9062.5	0.0	9062.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9062.5	0.0	9062.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	18125.1	0.0	18125.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	328.4	1.8
10°-20°	1004.1	5.5
20°-30°	1674.3	9.2
30°-40°	2302.6	12.7
40°-50°	2812.1	15.5
50°-60°	3252.5	17.9
60°-70°	3878.1	21.4
70°-80°	2706.7	14.9
80°-90°	166.2	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°	18125.1	100.0
0°-180°	18125.1	100.0

Coefficient of Utilization



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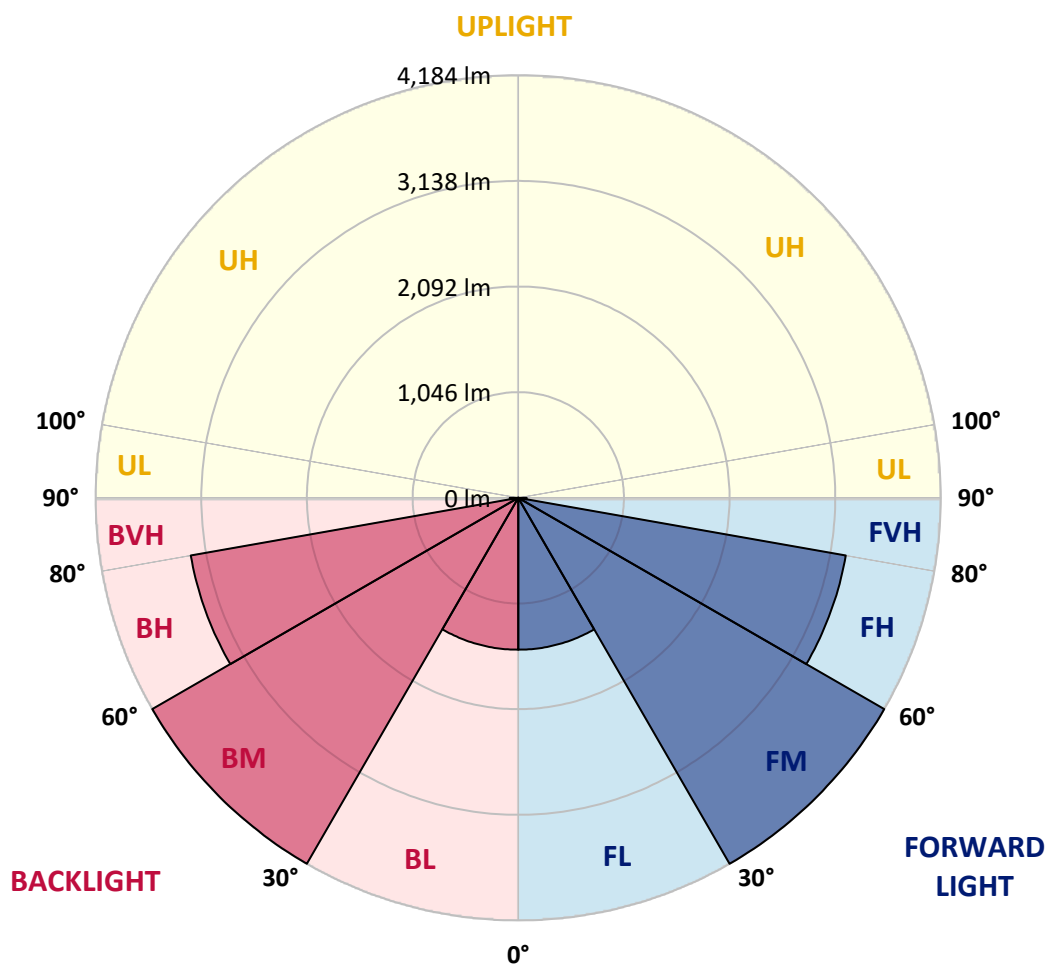
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1503.4	8.3			
FM	(30°-60°)	4183.6	23.1			
FH	(60°-80°)	3292.4	18.2			G2/5000
FVH	(80°-90°)	83.1	0.5			G1/100
BL	(0°-30°)	1503.4	8.3	B3/2500		
BM	(30°-60°)	4183.6	23.1	B3/5000		
BH	(60°-80°)	3292.4	18.2	B4/5000		G4/5000
BVH	(80°-90°)	83.1	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°	3386.9	3386.9	3386.9	3386.9	3386.9	3386.9	3386.9	3386.9	3386.9	3386.9	3386.9
2.5°	3389.8	3393.6	3393.6	3390.7	3397.5	3391.7	3391.7	3388.8	3391.7	3388.8	3388.8
5°	3407.1	3411.9	3413.9	3412.8	3421.6	3416.7	3416.7	3412.8	3413.9	3410.9	3410.9
7.5°	3439.8	3446.6	3450.5	3455.3	3467.8	3462.0	3458.1	3446.6	3441.7	3434.1	3434.1
10°	3450.5	3458.1	3470.6	3495.7	3524.6	3525.6	3514.0	3485.1	3463.0	3445.6	3442.8
12.5°	3417.7	3428.3	3454.2	3505.3	3569.9	3595.9	3577.6	3529.4	3486.1	3455.3	3450.5
15°	3376.2	3387.8	3427.3	3504.4	3599.7	3660.5	3658.5	3594.9	3525.6	3477.4	3469.7
17.5°	3311.8	3323.3	3380.1	3488.0	3622.9	3723.0	3750.1	3684.5	3587.2	3522.7	3512.1
20°	3195.1	3205.8	3284.7	3436.0	3630.6	3789.5	3859.8	3802.0	3680.7	3593.0	3576.6
22.5°	3043.9	3060.3	3152.8	3346.4	3612.3	3858.8	3985.1	3945.5	3789.5	3668.2	3646.0
25°	2882.1	2899.4	3007.4	3236.6	3565.1	3908.9	4133.4	4108.3	3912.8	3761.5	3730.8
27.5°	2742.4	2760.7	2878.3	3127.8	3491.9	3928.2	4279.8	4292.3	4062.1	3864.7	3831.9
30°	2632.6	2649.9	2775.2	3040.0	3397.5	3908.9	4407.9	4494.6	4214.3	3954.2	3907.0
32.5°	2512.2	2534.4	2666.3	2933.1	3285.7	3862.7	4519.6	4713.3	4390.6	4050.6	3990.8
35°	2360.1	2380.3	2518.9	2786.8	3139.3	3788.5	4613.1	4956.1	4642.9	4197.0	4130.5
37.5°	2175.0	2194.3	2332.1	2603.7	2993.8	3684.5	4684.4	5229.5	4943.5	4407.9	4319.3
40°	1989.1	2007.5	2136.5	2399.5	2819.5	3551.6	4709.5	5497.4	5288.4	4697.9	4603.5
42.5°	1818.7	1835.1	1953.5	2198.2	2624.0	3382.1	4676.7	5730.5	5597.5	4900.1	4778.8
45°	1661.6	1676.1	1781.0	2009.4	2420.7	3175.9	4578.5	5981.0	5965.5	5044.6	4880.8
47.5°	1482.5	1496.9	1605.8	1826.3	2217.5	2934.2	4411.8	6227.6	6477.1	5372.1	5183.3
50°	1263.8	1276.3	1388.1	1615.4	2006.5	2676.9	4180.6	6421.2	7122.4	5868.2	5631.2
52.5°	1004.7	1018.1	1127.0	1354.3	1756.0	2400.4	3876.2	6547.4	7868.0	6592.6	6300.8
55°	747.5	757.2	851.6	1055.8	1445.9	2085.5	3494.7	6583.0	8713.7	7582.8	7217.7
57.5°	542.3	548.1	608.7	761.0	1096.2	1691.5	3031.4	6490.5	9720.4	8852.4	8393.0
60°	439.2	441.2	459.5	527.0	762.0	1246.5	2471.8	6172.7	10812.7	10489.0	9910.1
62.5°	398.8	398.8	403.6	421.9	515.4	822.7	1794.6	5513.8	11984.1	12557.2	11781.8
65°	370.8	370.8	372.8	381.5	406.5	524.0	1132.8	4440.7	12971.4	14979.9	13999.2
67.5°	345.8	346.8	345.8	348.7	363.2	387.2	656.9	3067.0	13503.1	17490.1	16431.5
70°	319.8	321.7	316.9	316.9	328.5	329.4	411.3	1681.9	13062.0	19593.9	19315.5
72.5°	288.9	291.9	284.1	282.3	290.9	287.1	309.2	807.2	11214.4	20221.9	20954.1
75°	262.0	265.9	248.6	243.7	243.7	240.8	251.4	414.2	7278.5	16496.0	17644.2
77.5°	237.9	245.6	217.7	202.3	198.4	189.7	205.2	253.4	3183.6	7744.7	7583.9
80°	196.5	207.2	179.2	160.8	154.2	144.5	161.8	177.2	946.9	1798.5	1722.3
82.5°	146.4	151.2	127.2	114.6	108.9	102.1	121.4	123.3	308.2	636.7	719.6
85°	93.5	95.3	78.0	67.4	64.6	61.6	77.1	67.4	117.6	468.1	680.1
87.5°	32.8	37.6	29.8	27.0	28.9	24.1	35.7	20.2	32.8	330.4	409.4
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)