

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: P964566

Luminaire Tested: **NAV-SB3C-735-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964566
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-SB3C-735-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22784.7 lumens
Efficiency: N/A
Efficacy: 152.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

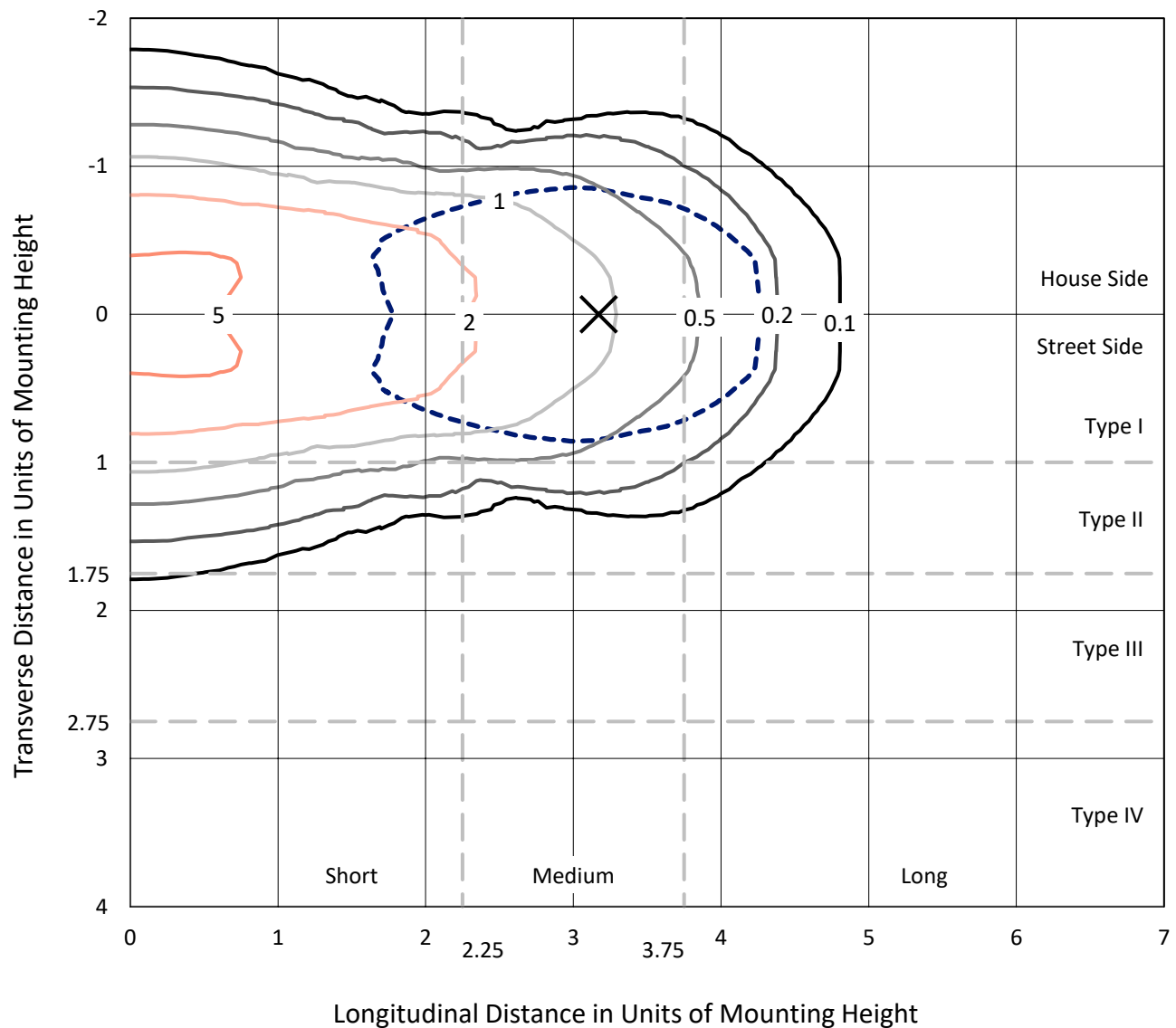
Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

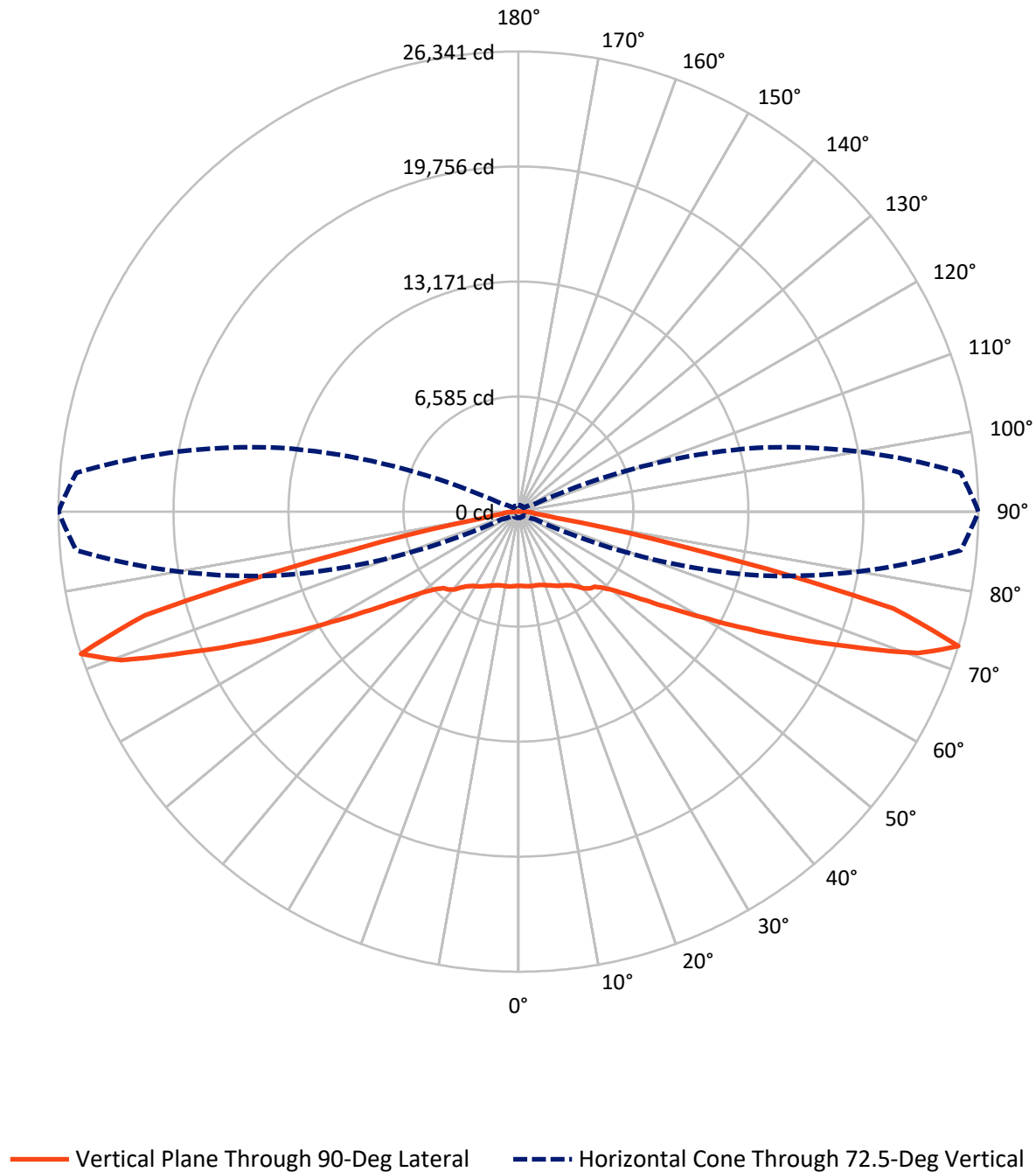
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 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	11392.4	0.0	11392.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11392.4	0.0	11392.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	22784.7	0.0	22784.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	412.8	1.8
10°-20°	1262.2	5.5
20°-30°	2104.7	9.2
30°-40°	2894.6	12.7
40°-50°	3535.1	15.5
50°-60°	4088.7	17.9
60°-70°	4875.1	21.4
70°-80°	3402.5	14.9
80°-90°	209.0	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°	22784.7	100.0
0°-180°	22784.7	100.0

Coefficient of Utilization



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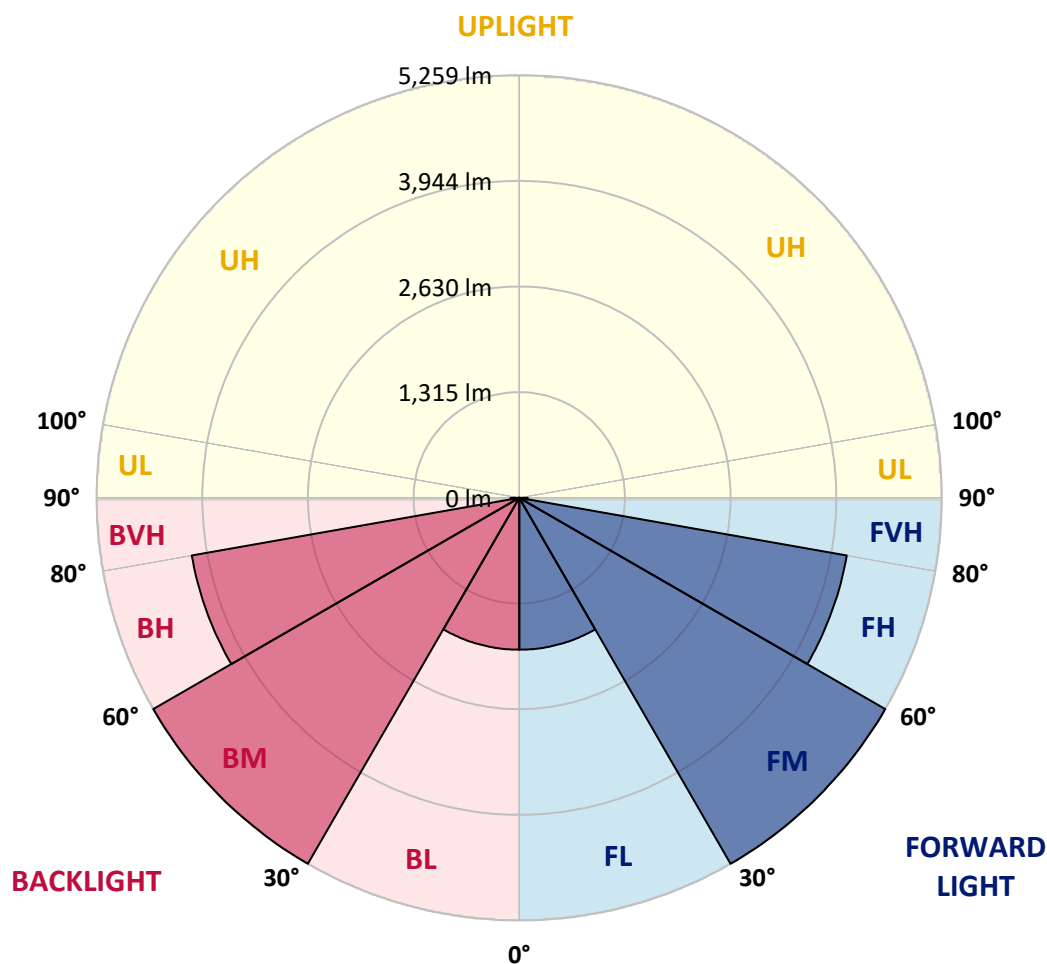
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1889.9	8.3			
FM	(30°-60°)	5259.2	23.1			
FH	(60°-80°)	4138.8	18.2			G2/5000
FVH	(80°-90°)	104.5	0.5			G2/225
BL	(0°-30°)	1889.9	8.3	B3/2500		
BM	(30°-60°)	5259.2	23.1	B4/8500		
BH	(60°-80°)	4138.8	18.2	B4/5000		G4/5000
BVH	(80°-90°)	104.5	0.5			G2/225
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°	4257.5	4257.5	4257.5	4257.5	4257.5	4257.5	4257.5	4257.5	4257.5	4257.5	4257.5
2.5°	4261.2	4266.0	4266.0	4262.4	4270.9	4263.6	4263.6	4260.0	4263.6	4260.0	4260.0
5°	4283.0	4289.0	4291.5	4290.2	4301.2	4295.1	4295.1	4290.2	4291.5	4287.9	4287.9
7.5°	4324.2	4332.7	4337.5	4343.5	4359.3	4352.0	4347.1	4332.7	4326.6	4316.9	4316.9
10°	4337.5	4347.1	4362.9	4394.4	4430.8	4431.9	4417.4	4381.1	4353.3	4331.4	4327.8
12.5°	4296.3	4309.6	4342.3	4406.5	4487.7	4520.4	4497.3	4436.8	4382.3	4343.5	4337.5
15°	4244.2	4258.8	4308.4	4405.3	4525.2	4601.4	4599.1	4519.1	4431.9	4371.4	4361.7
17.5°	4163.1	4177.7	4249.1	4384.7	4554.3	4680.2	4714.1	4631.8	4509.4	4428.3	4415.0
20°	4016.6	4029.9	4129.2	4319.3	4563.9	4763.7	4852.1	4779.5	4626.8	4516.7	4496.2
22.5°	3826.5	3847.0	3963.3	4206.7	4541.0	4850.9	5009.6	4959.9	4763.7	4611.2	4583.3
25°	3623.1	3644.8	3780.5	4068.6	4481.6	4913.8	5196.0	5164.6	4918.8	4728.6	4689.9
27.5°	3447.5	3470.4	3618.2	3931.8	4389.6	4938.1	5380.1	5395.8	5106.4	4858.2	4817.0
30°	3309.4	3331.2	3488.6	3821.6	4270.9	4913.8	5541.2	5650.1	5297.7	4970.8	4911.5
32.5°	3158.0	3185.9	3351.9	3687.2	4130.4	4855.7	5681.6	5925.0	5519.3	5091.9	5016.8
35°	2966.8	2992.2	3166.5	3503.1	3946.4	4762.6	5799.0	6230.2	5836.6	5276.0	5192.3
37.5°	2734.3	2758.5	2931.6	3273.1	3763.5	4631.8	5888.6	6574.0	6214.4	5541.2	5429.7
40°	2500.5	2523.5	2685.8	3016.4	3544.3	4464.6	5920.2	6910.7	6647.9	5905.6	5786.9
42.5°	2286.2	2306.8	2455.7	2763.3	3298.6	4251.5	5879.0	7203.7	7036.6	6159.9	6007.3
45°	2088.8	2107.0	2239.0	2526.0	3043.0	3992.4	5755.5	7518.6	7499.2	6341.6	6135.6
47.5°	1863.6	1881.8	2018.6	2295.9	2787.5	3688.5	5546.0	7828.5	8142.2	6753.2	6515.9
50°	1588.7	1604.4	1745.0	2030.7	2522.3	3365.1	5255.4	8072.0	8953.5	7376.9	7079.0
52.5°	1263.0	1279.9	1416.8	1702.5	2207.5	3017.6	4872.7	8230.5	9890.7	8287.4	7920.6
55°	939.6	951.8	1070.4	1327.2	1817.5	2621.6	4393.2	8275.3	10953.9	9532.3	9073.4
57.5°	681.7	689.0	765.3	956.6	1378.0	2126.4	3810.7	8159.1	12219.3	11128.3	10550.6
60°	552.2	554.6	577.6	662.4	957.9	1566.9	3107.2	7759.6	13592.5	13185.6	12457.8
62.5°	501.3	501.3	507.4	530.3	647.8	1034.1	2255.9	6931.3	15064.9	15785.4	14810.6
65°	466.2	466.2	468.6	479.5	511.0	658.8	1424.0	5582.4	16306.1	18830.9	17598.2
67.5°	434.7	435.9	434.7	438.4	456.5	486.8	825.8	3855.5	16974.5	21986.6	20655.7
70°	402.0	404.5	398.4	398.4	412.9	414.1	517.0	2114.3	16420.0	24631.2	24281.2
72.5°	363.3	367.0	357.2	354.8	365.7	360.9	388.7	1014.7	14097.4	25420.7	26341.0
75°	329.3	334.3	312.4	306.4	306.4	302.7	316.0	520.7	9149.7	20736.9	22180.3
77.5°	299.1	308.8	273.7	254.3	249.5	238.5	257.9	318.5	4002.1	9735.8	9533.5
80°	247.0	260.3	225.2	202.2	193.7	181.6	203.5	222.8	1190.3	2260.7	2165.1
82.5°	184.1	190.1	159.8	144.1	136.8	128.3	152.6	155.0	387.4	800.4	904.6
85°	117.5	119.9	98.1	84.8	81.2	77.5	96.9	84.8	147.7	588.5	855.0
87.5°	41.2	47.3	37.5	33.9	36.3	30.2	44.8	25.4	41.2	415.3	514.7
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)