

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: P964597

Luminaire Tested: **NAV-SB3C-740-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964597
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-740-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24104.9 lumens
Efficiency: N/A
Efficacy: 161.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

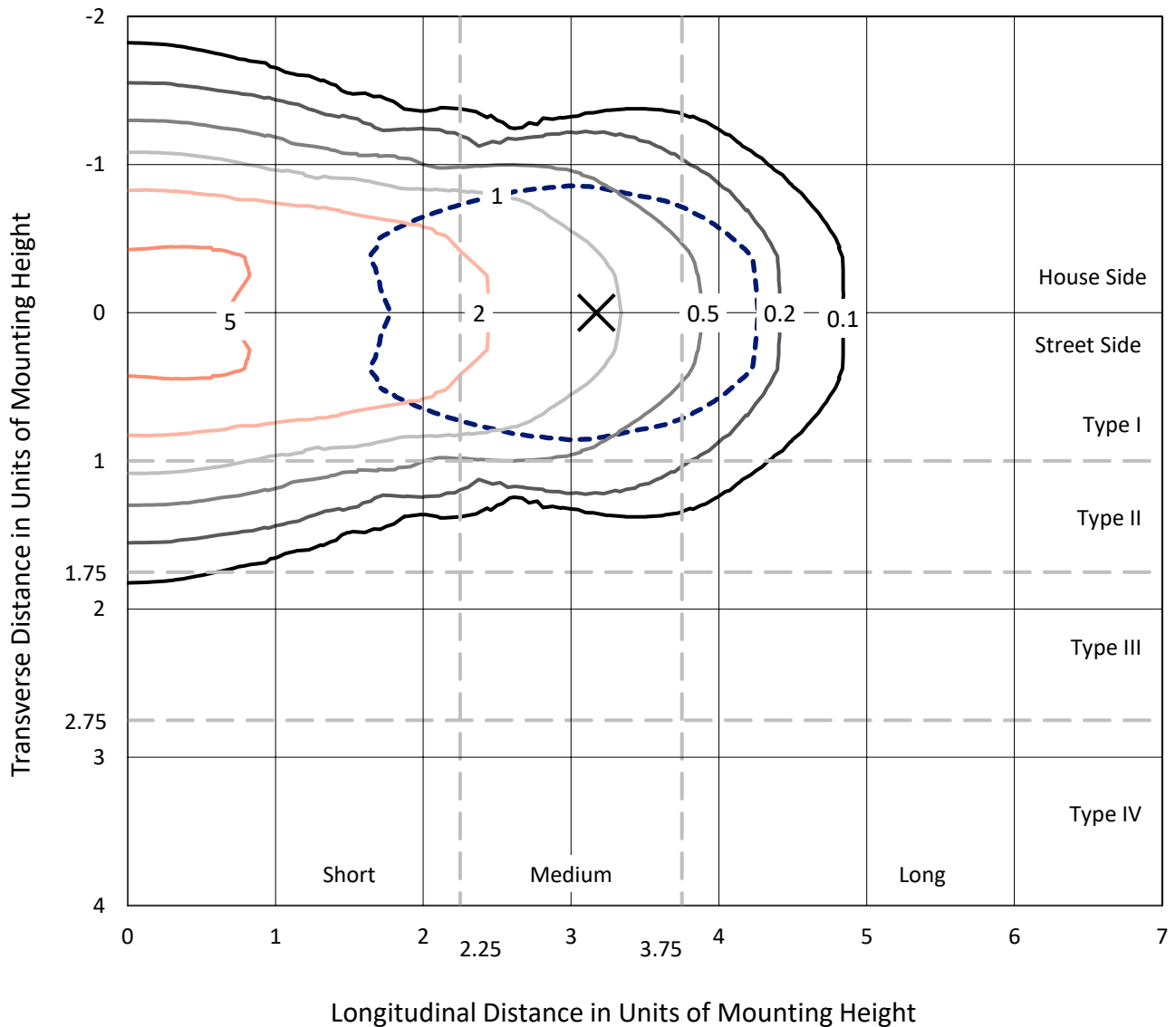
Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P964597
 CATALOG NUMBER: NAV-SB3C-740-U-T1

Iso-Footcandle Lines of Horizontal Illumination

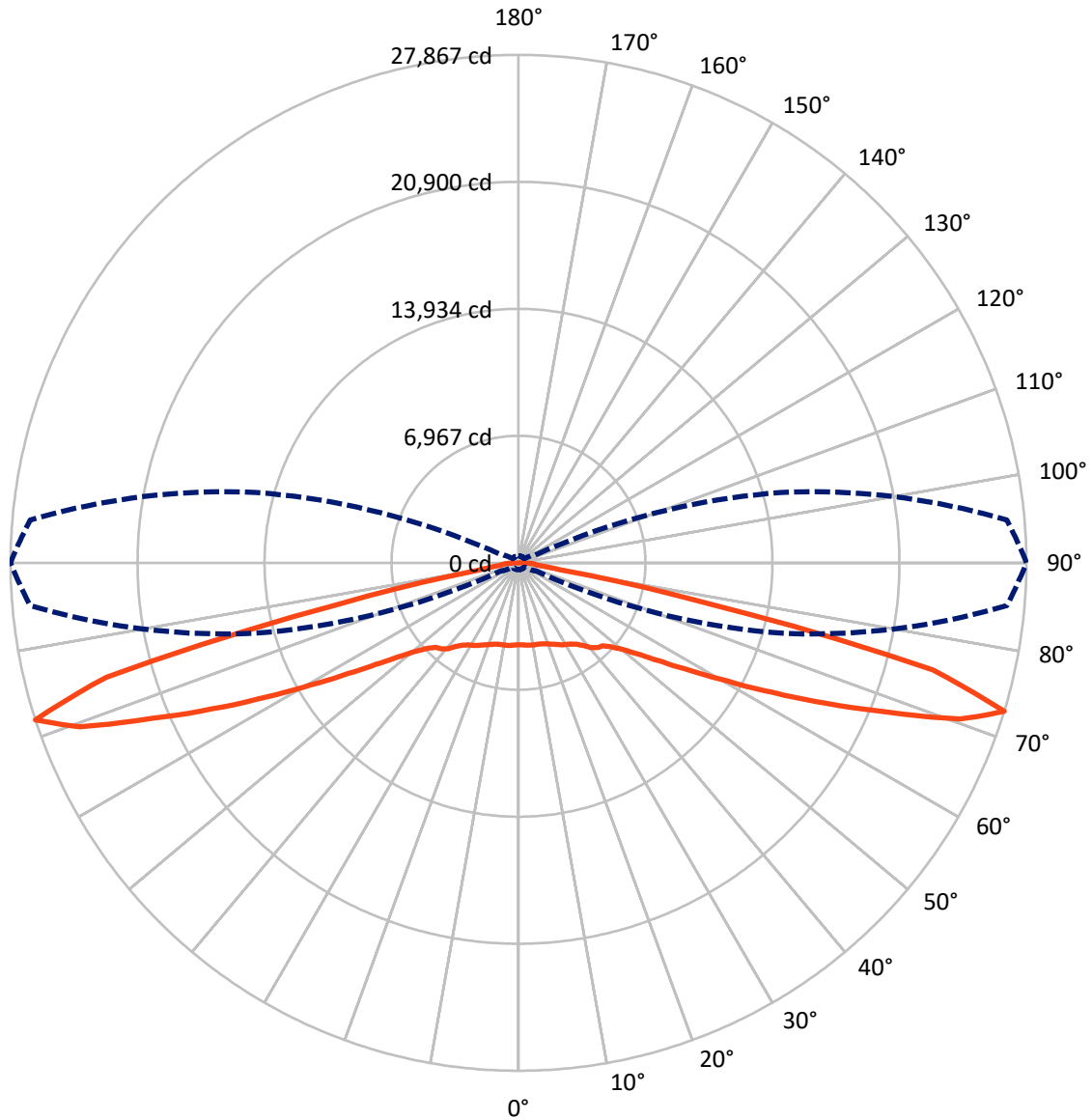
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type I - Short - N/A

REPORT NUMBER: P964597
CATALOG NUMBER: NAV-SB3C-740-U-T1

Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P964597
 CATALOG NUMBER: NAV-SB3C-740-U-T1

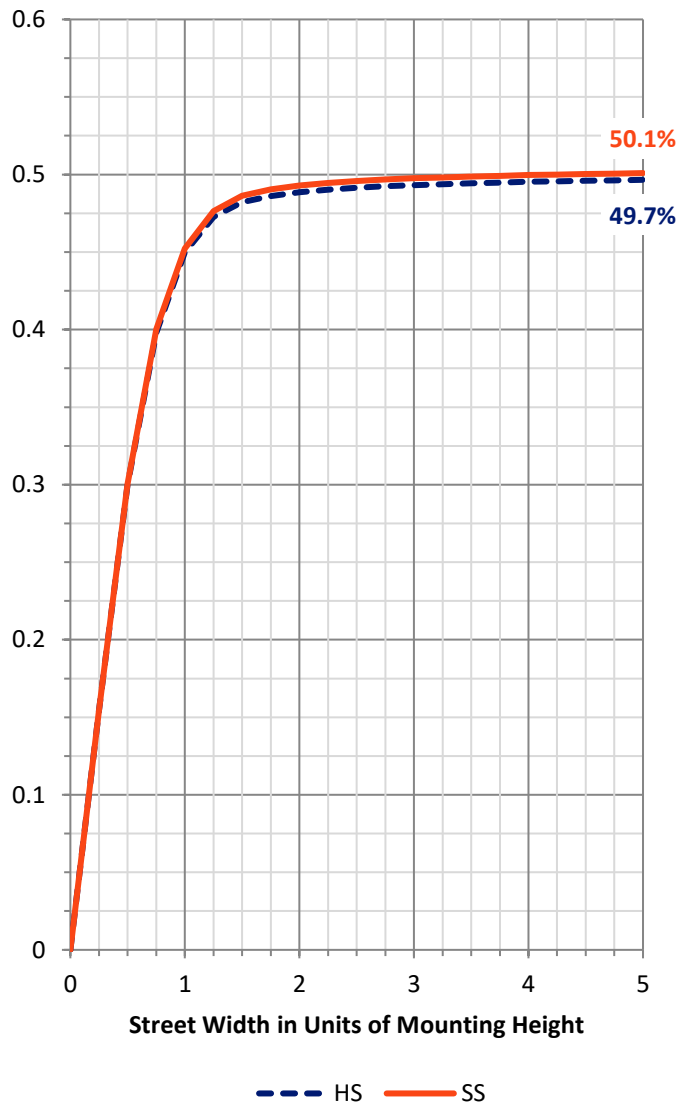
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12052.5	0.0	12052.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12052.5	0.0	12052.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	24104.9	0.0	24104.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	436.7	1.8
10°-20°	1335.4	5.5
20°-30°	2226.6	9.2
30°-40°	3062.3	12.7
40°-50°	3739.9	15.5
50°-60°	4325.6	17.9
60°-70°	5157.6	21.4
70°-80°	3599.7	14.9
80°-90°	221.1	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°	24104.9	100.0
0°-180°	24104.9	100.0

Coefficient of Utilization

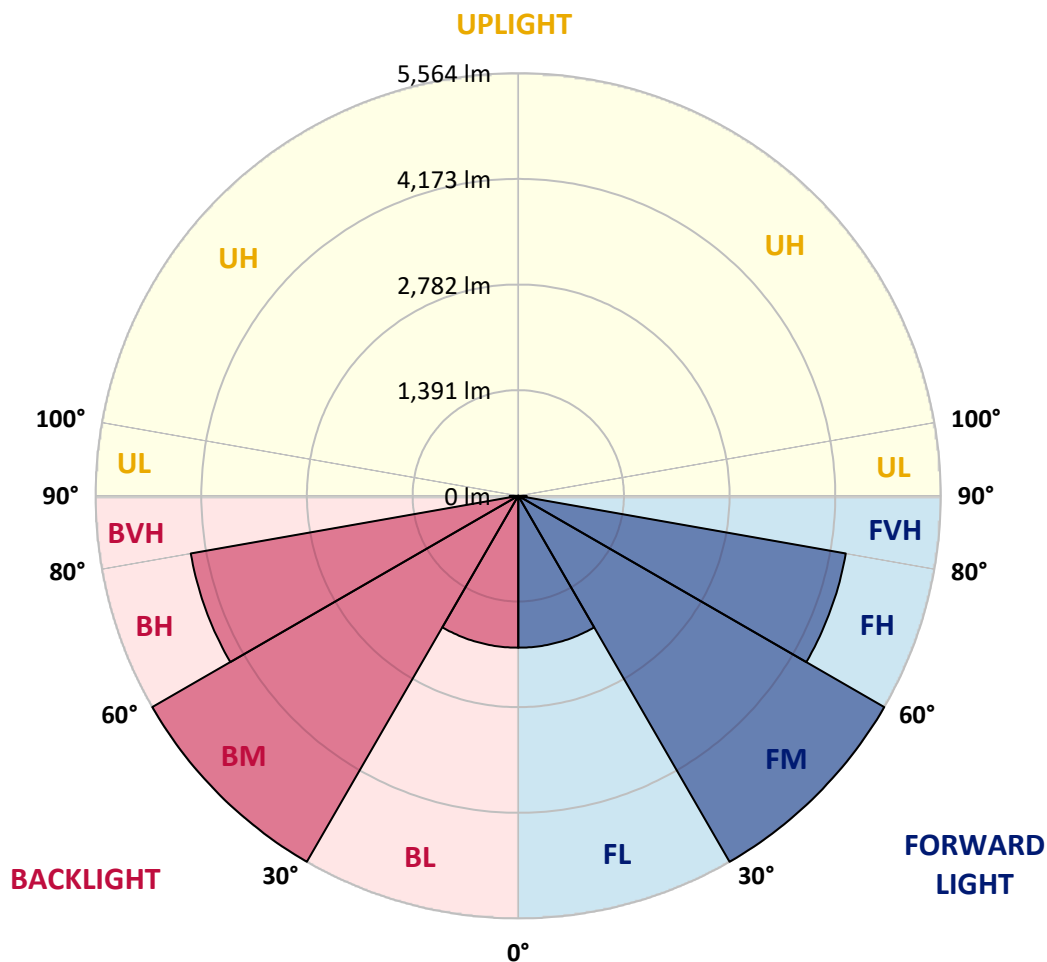


REPORT NUMBER: P964597
 CATALOG NUMBER: NAV-SB3C-740-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1999.4	8.3			
FM (30°-60°)	5563.9	23.1			
FH (60°-80°)	4378.6	18.2			G2/5000
FVH (80°-90°)	110.5	0.5			G2/225
BL (0°-30°)	1999.4	8.3	B3/2500		
BM (30°-60°)	5563.9	23.1	B4/8500		
BH (60°-80°)	4378.6	18.2	B4/5000		G4/5000
BVH (80°-90°)	110.5	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



REPORT NUMBER: P964597
 CATALOG NUMBER: NAV-SB3C-740-U-T1

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4504.3	4504.3	4504.3	4504.3	4504.3	4504.3	4504.3	4504.3	4504.3	4504.3	4504.3
2.5°	4508.1	4513.2	4513.2	4509.4	4518.3	4510.6	4510.6	4506.8	4510.6	4506.8	4506.8
5°	4531.1	4537.6	4540.1	4538.8	4550.4	4543.9	4543.9	4538.8	4540.1	4536.2	4536.2
7.5°	4574.7	4583.7	4588.8	4595.2	4611.9	4604.2	4599.1	4583.7	4577.2	4567.0	4567.0
10°	4588.8	4599.1	4615.7	4649.0	4687.4	4688.8	4673.4	4634.9	4605.4	4582.4	4578.6
12.5°	4545.3	4559.3	4593.9	4661.8	4747.7	4782.2	4757.9	4693.9	4636.2	4595.2	4588.8
15°	4490.2	4505.5	4558.1	4660.6	4787.4	4868.1	4865.6	4781.0	4688.8	4624.7	4614.4
17.5°	4404.3	4419.7	4495.3	4638.7	4818.1	4951.4	4987.2	4900.1	4770.8	4684.9	4670.8
20°	4249.3	4263.4	4368.4	4569.6	4828.4	5039.7	5133.3	5056.4	4895.0	4778.4	4756.6
22.5°	4048.2	4070.0	4193.0	4450.4	4804.1	5132.0	5299.8	5247.3	5039.7	4878.3	4848.9
25°	3833.0	3856.0	3999.6	4304.4	4741.2	5198.6	5497.1	5463.8	5203.7	5002.6	4961.6
27.5°	3647.3	3671.6	3827.9	4159.7	4643.9	5224.2	5691.8	5708.4	5402.3	5139.7	5096.1
30°	3501.2	3524.3	3690.8	4043.1	4518.3	5198.6	5862.2	5977.5	5604.7	5258.8	5196.0
32.5°	3341.1	3370.5	3546.0	3900.8	4369.8	5137.1	6010.8	6268.3	5839.1	5386.9	5307.4
35°	3138.7	3165.5	3350.0	3706.2	4175.0	5038.5	6135.0	6591.2	6174.8	5581.6	5493.3
37.5°	2892.7	2918.3	3101.4	3462.8	3981.6	4900.1	6229.8	6954.9	6574.5	5862.2	5744.3
40°	2645.4	2669.7	2841.4	3191.1	3749.8	4723.3	6263.2	7311.1	7033.1	6247.8	6122.2
42.5°	2418.7	2440.4	2598.1	2923.4	3489.6	4497.9	6219.6	7621.1	7444.4	6516.8	6355.4
45°	2209.9	2229.1	2368.7	2672.3	3219.3	4223.7	6088.9	7954.2	7933.7	6709.0	6491.2
47.5°	1971.6	1990.8	2135.6	2428.9	2949.0	3902.2	5867.3	8282.1	8614.0	7144.6	6893.4
50°	1680.8	1697.4	1846.0	2148.4	2668.5	3560.1	5559.9	8539.7	9472.2	7804.4	7489.2
52.5°	1336.2	1354.1	1498.9	1801.2	2335.4	3192.5	5155.0	8707.5	10463.8	8767.6	8379.5
55°	994.1	1007.0	1132.4	1404.0	1922.9	2773.5	4647.8	8754.8	11588.6	10084.7	9599.1
57.5°	721.3	729.0	809.6	1012.1	1457.9	2249.6	4031.5	8631.8	12927.3	11773.0	11162.0
60°	584.1	586.7	611.1	700.8	1013.3	1657.7	3287.3	8209.1	14380.0	13949.6	13179.7
62.5°	530.3	530.3	536.8	561.1	685.4	1094.1	2386.6	7332.8	15937.8	16700.1	15668.9
65°	493.2	493.2	495.8	507.3	540.6	696.9	1506.5	5905.7	17251.0	19922.0	18617.9
67.5°	459.9	461.1	459.9	463.7	483.0	515.0	873.7	4079.0	17958.1	23260.4	21852.6
70°	425.3	427.8	421.5	421.5	436.9	438.1	547.0	2236.8	17371.4	26058.4	25688.1
72.5°	384.3	388.2	377.9	375.4	386.8	381.7	411.2	1073.6	14914.3	26893.6	27867.2
75°	348.5	353.6	330.6	324.1	324.1	320.3	334.4	550.8	9679.8	21938.4	23465.4
77.5°	316.4	326.7	289.6	269.1	263.9	252.4	272.9	336.9	4234.0	10299.8	10085.9
80°	261.4	275.4	238.3	213.9	205.0	192.2	215.2	235.7	1259.3	2391.7	2290.6
82.5°	194.7	201.1	169.1	152.4	144.7	135.8	161.4	164.0	409.9	846.8	956.9
85°	124.2	126.8	103.7	89.7	85.8	82.0	102.5	89.7	156.3	622.6	904.5
87.5°	43.6	49.9	39.7	35.9	38.4	32.0	47.4	26.9	43.6	439.4	544.5
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)