

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: P968720

Luminaire Tested: **NAV-SB5C-727-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968720
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-SB5C-727-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35580.8 lumens
Efficiency: N/A
Efficacy: 142.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

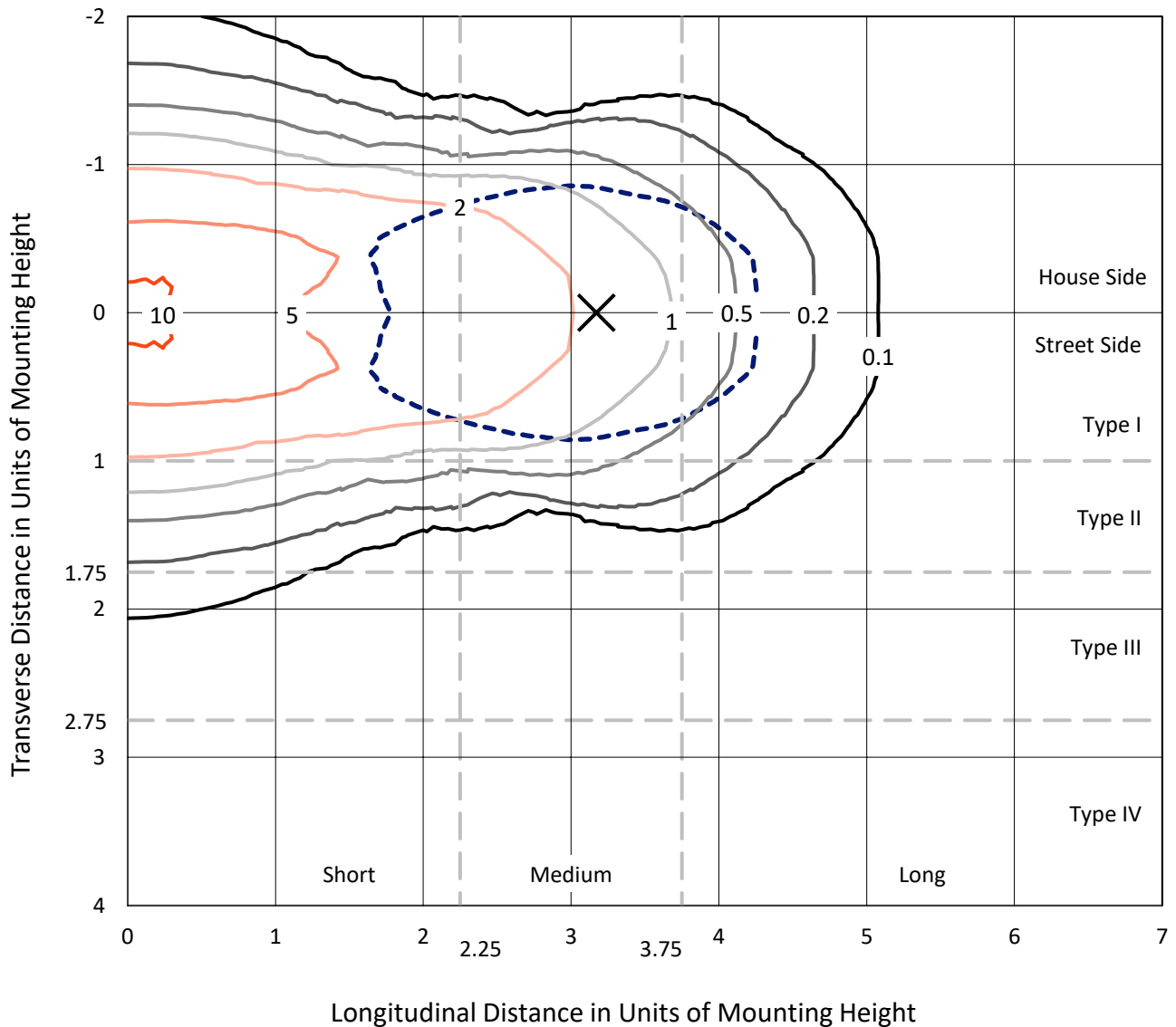
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

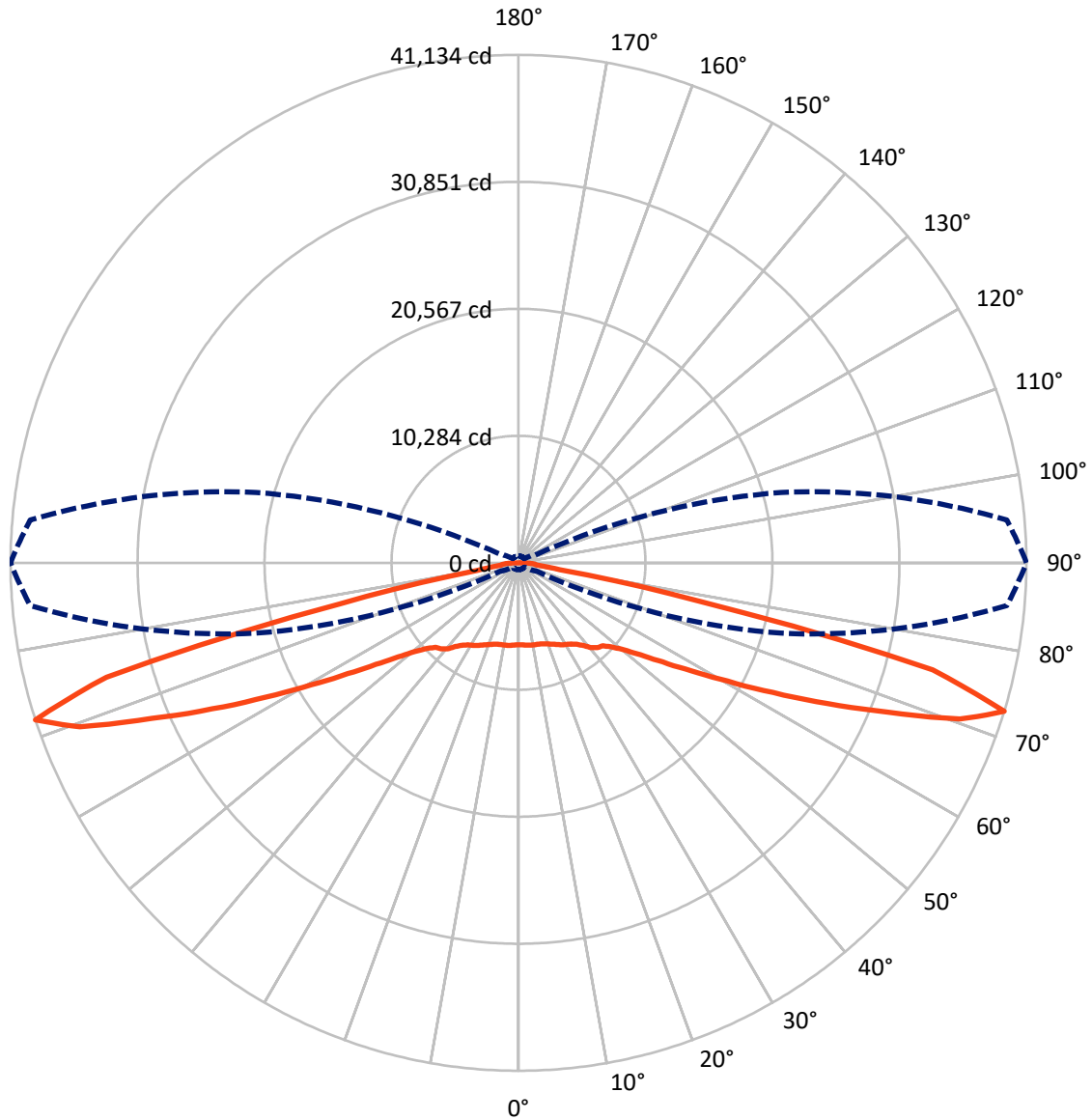
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 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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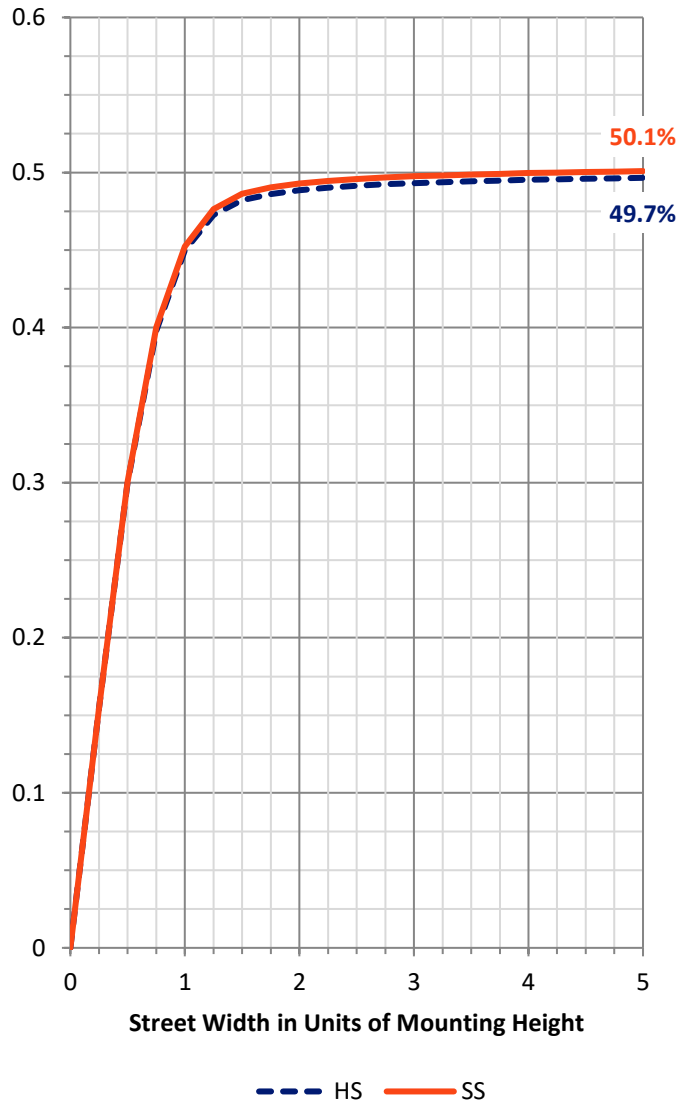
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17790.4	0.0	17790.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17790.4	0.0	17790.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	35580.8	0.0	35580.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	644.7	1.8
10°-20°	1971.1	5.5
20°-30°	3286.7	9.2
30°-40°	4520.2	12.7
40°-50°	5520.4	15.5
50°-60°	6384.9	17.9
60°-70°	7613.0	21.4
70°-80°	5313.4	14.9
80°-90°	326.3	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°	35580.8	100.0
0°-180°	35580.8	100.0

Coefficient of Utilization

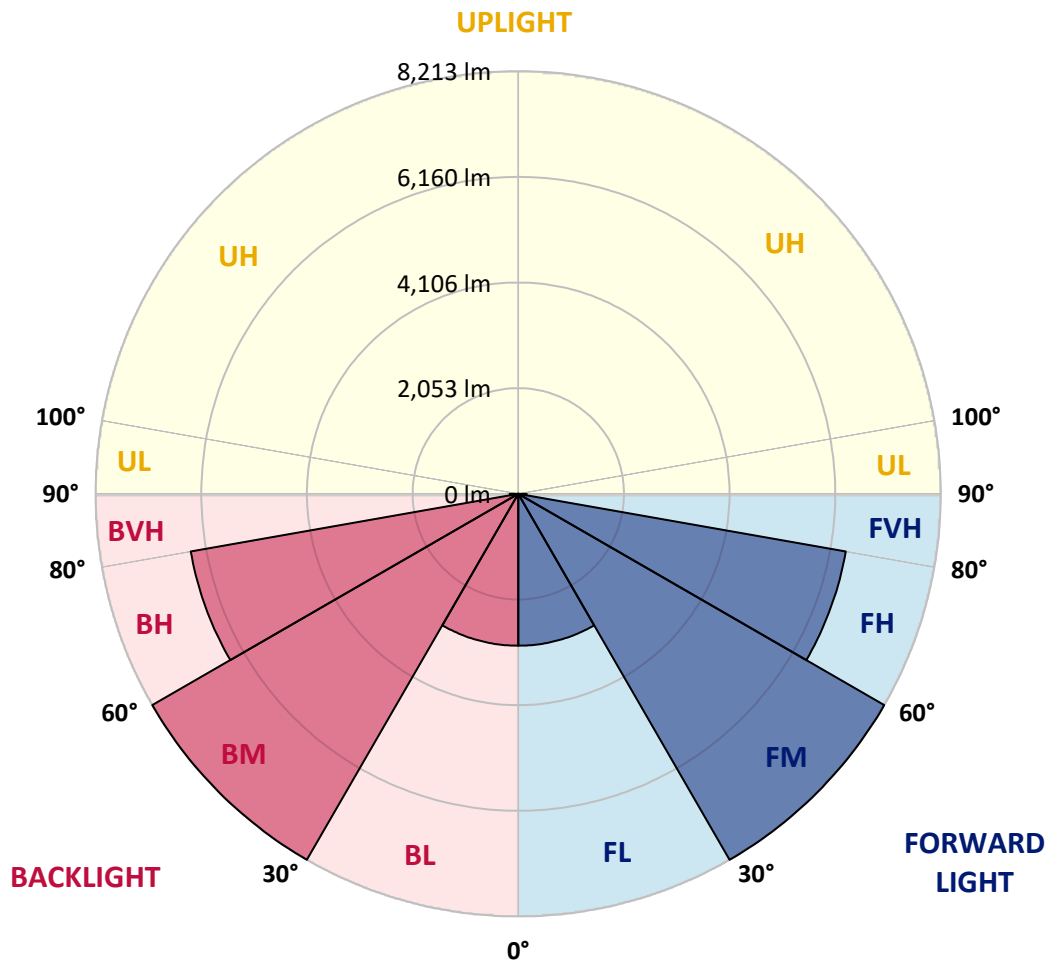


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2951.2	8.3			
FM (30°-60°)	8212.8	23.1			
FH (60°-80°)	6463.2	18.2			G3/7500
FVH (80°-90°)	163.2	0.5			G2/225
BL (0°-30°)	2951.2	8.3	B4/5000		
BM (30°-60°)	8212.8	23.1	B4/8500		
BH (60°-80°)	6463.2	18.2	B5		G5
BVH (80°-90°)	163.2	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5
 Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6648.7	6648.7	6648.7	6648.7	6648.7	6648.7	6648.7	6648.7	6648.7	6648.7	6648.7
2.5°	6654.3	6661.9	6661.9	6656.2	6669.5	6658.1	6658.1	6652.5	6658.1	6652.5	6652.5
5°	6688.3	6697.9	6701.6	6699.7	6716.7	6707.3	6707.3	6699.7	6701.6	6695.9	6695.9
7.5°	6752.7	6765.9	6773.5	6782.9	6807.5	6796.2	6788.6	6765.9	6756.4	6741.3	6741.3
10°	6773.5	6788.6	6813.2	6862.4	6919.1	6920.9	6898.2	6841.6	6798.0	6764.0	6758.3
12.5°	6709.1	6729.9	6781.0	6881.2	7007.9	7059.0	7023.1	6928.5	6843.4	6782.9	6773.5
15°	6627.9	6650.5	6728.1	6879.4	7066.6	7185.7	7181.9	7057.1	6920.9	6826.4	6811.2
17.5°	6501.2	6523.8	6635.4	6847.2	7112.0	7308.6	7361.6	7232.9	7042.0	6915.3	6894.5
20°	6272.4	6293.2	6448.2	6745.1	7127.0	7439.0	7577.1	7463.6	7225.4	7053.3	7021.1
22.5°	5975.4	6007.6	6189.2	6569.2	7091.2	7575.3	7822.9	7745.4	7439.0	7200.8	7157.4
25°	5657.8	5691.8	5903.6	6353.7	6998.5	7673.6	8114.1	8065.0	7681.1	7384.2	7323.7
27.5°	5383.6	5419.5	5650.2	6140.0	6854.8	7711.4	8401.6	8426.1	7974.2	7586.5	7522.3
30°	5168.0	5202.1	5447.9	5967.9	6669.5	7673.6	8653.0	8823.3	8273.0	7762.4	7669.8
32.5°	4931.7	4975.1	5234.2	5758.0	6450.1	7582.7	8872.4	9252.5	8619.0	7951.5	7834.3
35°	4632.9	4672.6	4944.9	5470.5	6162.7	7437.2	9055.9	9729.1	9114.5	8238.9	8108.5
37.5°	4269.8	4307.7	4578.1	5111.3	5877.1	7232.9	9195.8	10266.1	9704.5	8653.0	8479.1
40°	3904.8	3940.8	4194.2	4710.4	5534.9	6972.0	9245.0	10791.8	10381.4	9222.2	9036.9
42.5°	3570.2	3602.3	3834.9	4315.1	5151.0	6639.2	9180.6	11249.4	10988.4	9619.3	9381.1
45°	3262.0	3290.2	3496.4	3944.6	4752.0	6234.6	8987.8	11741.1	11710.8	9903.0	9581.6
47.5°	2910.2	2938.6	3152.3	3585.2	4353.0	5759.9	8660.6	12225.2	12714.9	10545.9	10175.3
50°	2480.9	2505.5	2724.9	3171.1	3938.9	5255.0	8206.8	12605.2	13981.8	11519.8	11054.6
52.5°	1972.3	1998.7	2212.5	2658.7	3447.3	4712.3	7609.3	12852.9	15445.4	12941.8	12368.9
55°	1467.4	1486.4	1671.6	2072.5	2838.3	4094.0	6860.4	12922.9	17105.7	14885.8	14169.1
57.5°	1064.7	1075.9	1195.0	1493.8	2151.9	3320.6	5950.8	12741.4	19081.8	17378.1	16476.1
60°	862.3	866.0	902.0	1034.3	1495.8	2446.9	4852.2	12117.3	21226.1	20590.8	19454.3
62.5°	782.9	782.9	792.3	828.2	1011.7	1614.9	3522.9	10823.9	23525.6	24650.7	23128.5
65°	728.1	728.1	731.8	748.9	798.0	1028.7	2223.7	8717.4	25463.8	29406.5	27481.5
67.5°	678.9	680.7	678.9	684.5	712.9	760.1	1289.7	6020.8	26507.6	34334.3	32256.1
70°	627.8	631.6	622.2	622.2	644.8	646.7	807.5	3301.6	25641.6	38464.3	37917.7
72.5°	567.3	573.0	557.8	554.0	571.0	563.5	607.0	1584.6	22014.6	39697.1	41134.3
75°	514.3	521.9	487.9	478.4	478.4	472.7	493.5	813.1	14288.2	32382.8	34636.9
77.5°	467.1	482.2	427.3	397.1	389.5	372.5	402.8	497.3	6249.6	15203.4	14887.6
80°	385.7	406.5	351.7	315.8	302.6	283.6	317.6	348.0	1858.8	3530.4	3381.1
82.5°	287.4	296.8	249.6	225.0	213.7	200.5	238.3	242.0	605.2	1249.9	1412.6
85°	183.5	187.2	153.1	132.3	126.7	121.1	151.3	132.3	230.7	919.0	1335.1
87.5°	64.3	73.7	58.6	53.0	56.7	47.3	70.0	39.7	64.3	648.6	803.7
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)