

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: P966581

Luminaire Tested: **NAV-SB4C-722-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P966581
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-SB4C-722-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25142.2 lumens
Efficiency: N/A
Efficacy: 125.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

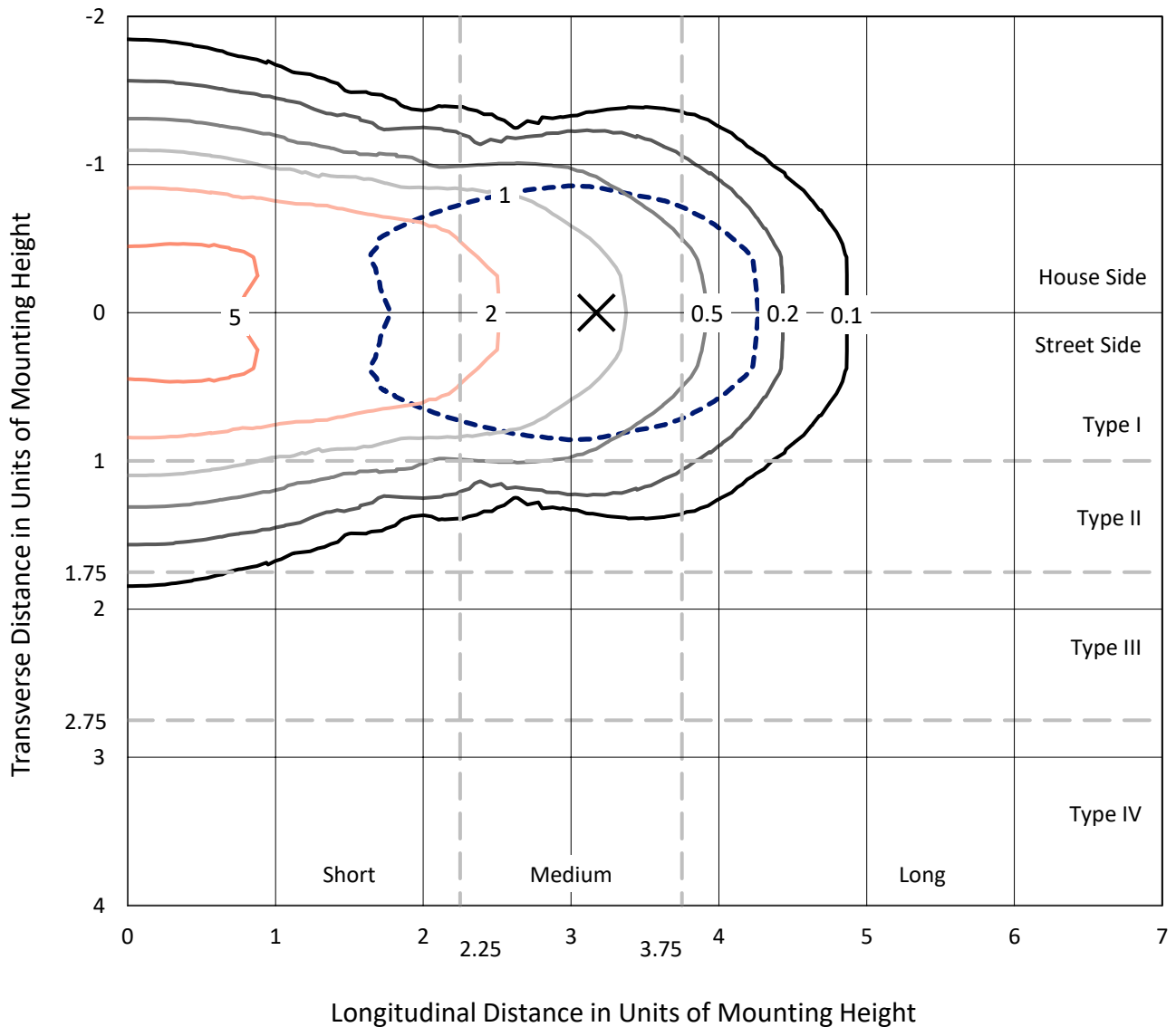
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

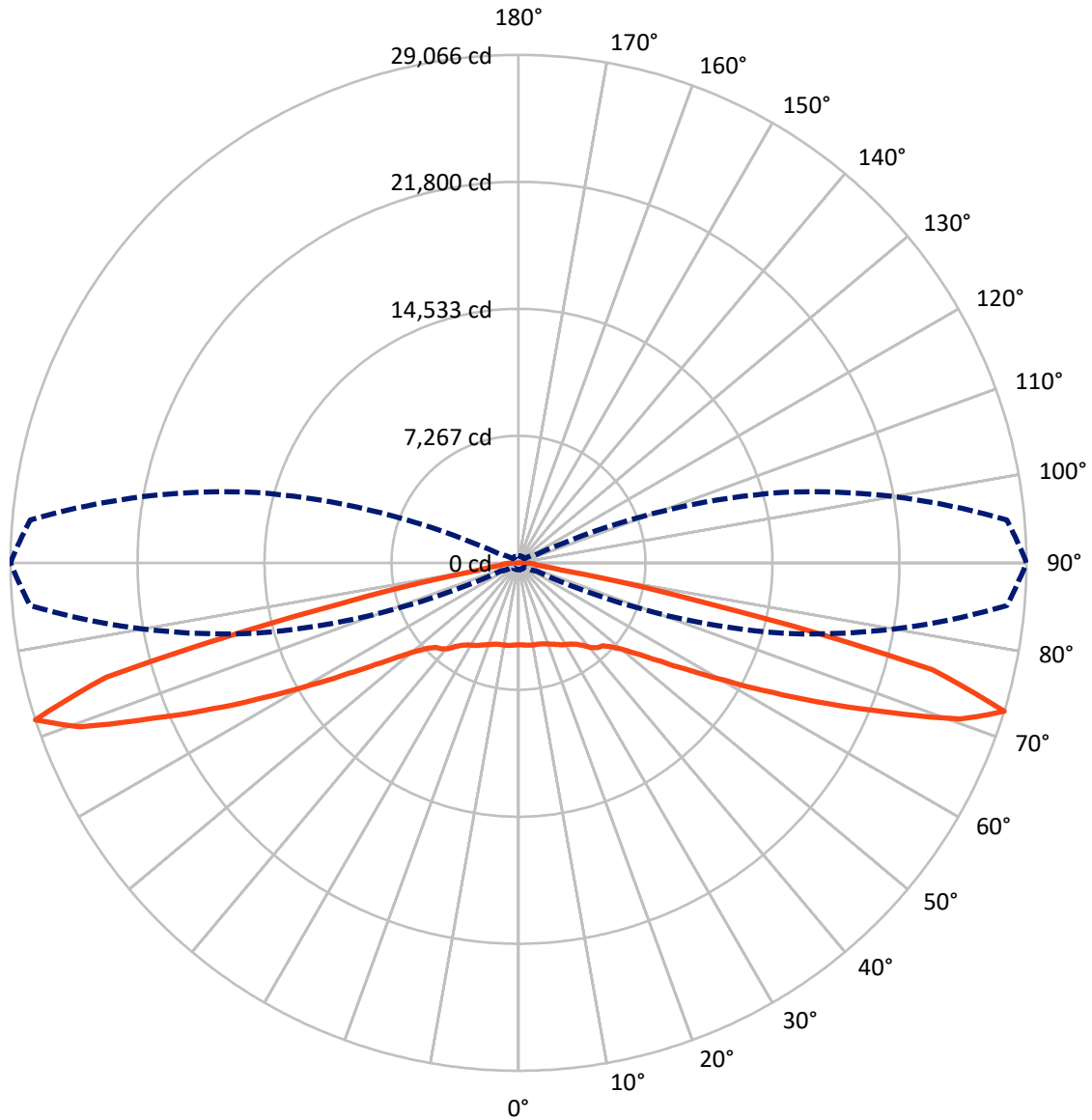
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 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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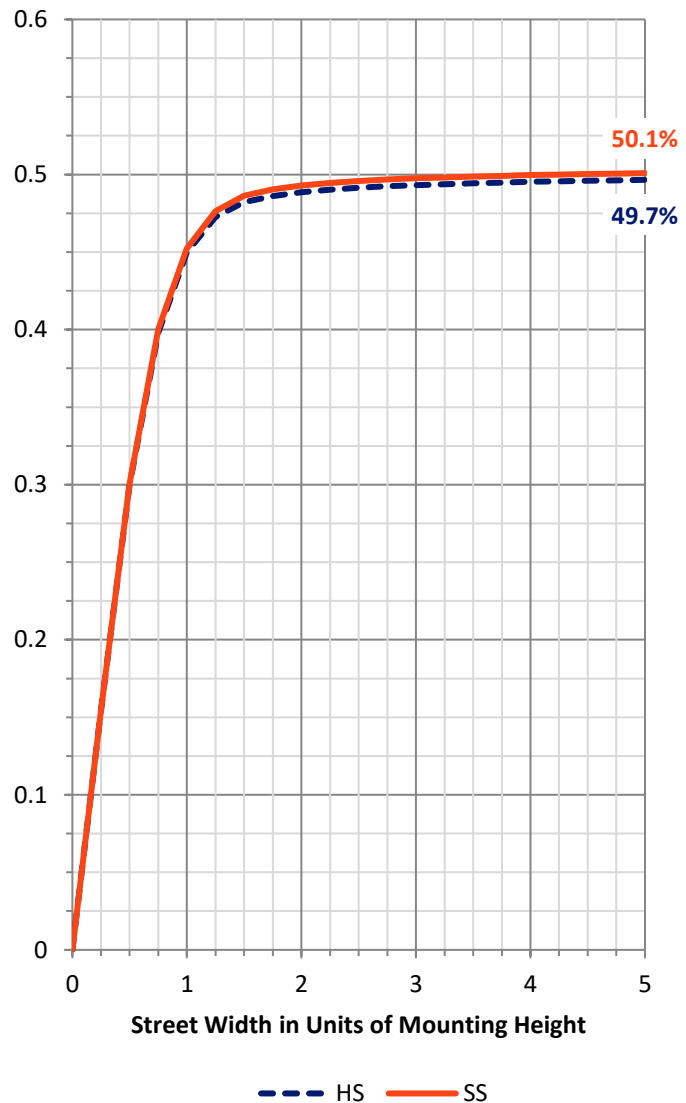
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12571.1	0.0	12571.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12571.1	0.0	12571.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	25142.2	0.0	25142.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	455.5	1.8
10°-20°	1392.9	5.5
20°-30°	2322.5	9.2
30°-40°	3194.1	12.7
40°-50°	3900.9	15.5
50°-60°	4511.7	17.9
60°-70°	5379.5	21.4
70°-80°	3754.5	14.9
80°-90°	230.6	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°	25142.2	100.0
0°-180°	25142.2	100.0

Coefficient of Utilization

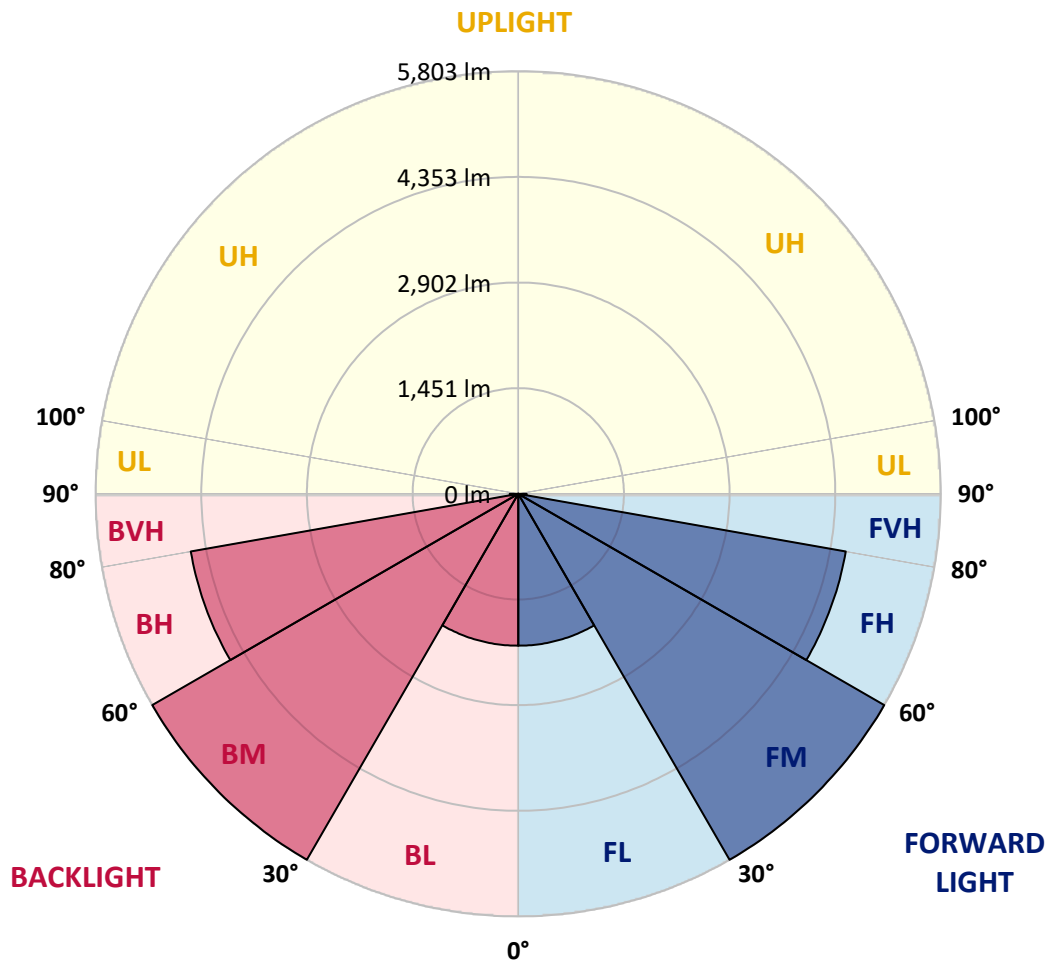


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2085.4	8.3			
FM (30°-60°)	5803.3	23.1			
FH (60°-80°)	4567.0	18.2			G2/5000
FVH (80°-90°)	115.3	0.5			G2/225
BL (0°-30°)	2085.4	8.3	B3/2500		
BM (30°-60°)	5803.3	23.1	B4/8500		
BH (60°-80°)	4567.0	18.2	B4/5000		G4/5000
BVH (80°-90°)	115.3	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°	4698.1	4698.1	4698.1	4698.1	4698.1	4698.1	4698.1	4698.1	4698.1	4698.1	4698.1
2.5°	4702.1	4707.4	4707.4	4703.4	4712.7	4704.8	4704.8	4700.8	4704.8	4700.8	4700.8
5°	4726.2	4732.8	4735.5	4734.2	4746.2	4739.5	4739.5	4734.2	4735.5	4731.5	4731.5
7.5°	4771.6	4780.9	4786.2	4793.0	4810.3	4802.3	4797.0	4780.9	4774.2	4763.6	4763.6
10°	4786.2	4797.0	4814.3	4849.1	4889.1	4890.5	4874.5	4834.4	4803.7	4779.6	4775.6
12.5°	4740.8	4755.6	4791.7	4862.4	4952.0	4988.1	4962.6	4895.8	4835.7	4793.0	4786.2
15°	4683.4	4699.4	4754.3	4861.1	4993.4	5077.5	5074.9	4986.7	4890.5	4823.6	4813.0
17.5°	4593.8	4609.9	4688.8	4838.4	5025.5	5164.5	5201.9	5111.0	4976.1	4886.5	4871.8
20°	4432.2	4446.9	4556.4	4766.2	5036.1	5256.6	5354.2	5274.0	5105.6	4984.1	4961.3
22.5°	4222.4	4245.1	4373.4	4642.0	5010.7	5352.9	5527.8	5473.1	5256.6	5088.3	5057.6
25°	3997.9	4022.0	4171.6	4489.6	4945.3	5422.4	5733.6	5698.9	5427.7	5217.9	5175.1
27.5°	3804.2	3829.6	3992.6	4338.6	4843.7	5449.0	5936.8	5954.1	5634.7	5360.9	5315.4
30°	3651.9	3675.9	3849.6	4217.1	4712.7	5422.4	6114.4	6234.8	5845.9	5485.1	5419.7
32.5°	3484.8	3515.5	3698.6	4068.7	4557.8	5358.2	6269.5	6538.1	6090.4	5618.7	5535.9
35°	3273.7	3301.7	3494.1	3865.7	4354.7	5255.3	6399.1	6874.8	6440.5	5821.8	5729.6
37.5°	3017.2	3043.8	3234.9	3611.8	4152.9	5111.0	6498.0	7254.2	6857.4	6114.4	5991.5
40°	2759.3	2784.6	2963.7	3328.5	3911.1	4926.6	6532.7	7625.7	7335.7	6516.6	6385.7
42.5°	2522.7	2545.5	2709.8	3049.2	3639.8	4691.4	6487.2	7949.1	7764.7	6797.3	6628.9
45°	2304.9	2325.0	2470.7	2787.3	3357.9	4405.4	6351.0	8296.5	8275.1	6997.7	6770.5
47.5°	2056.5	2076.4	2227.4	2533.4	3075.9	4070.1	6119.8	8638.6	8984.6	7452.0	7190.1
50°	1753.1	1770.5	1925.5	2240.9	2783.3	3713.3	5799.1	8907.1	9879.9	8140.1	7811.4
52.5°	1393.7	1412.3	1563.3	1878.7	2435.9	3329.8	5376.8	9082.2	10914.1	9144.9	8740.1
55°	1036.9	1050.2	1181.2	1464.5	2005.6	2892.9	4847.7	9131.6	12087.3	10518.6	10012.2
57.5°	752.2	760.3	844.5	1055.6	1520.6	2346.3	4205.1	9003.3	13483.7	12279.7	11642.4
60°	609.3	612.0	637.3	730.9	1057.0	1729.1	3428.7	8562.4	14998.9	14549.9	13746.9
62.5°	553.2	553.2	559.9	585.3	714.8	1141.1	2489.3	7648.4	16623.7	17418.7	16343.1
65°	514.4	514.4	517.1	529.1	563.9	726.9	1571.3	6159.9	17993.3	20779.3	19419.0
67.5°	479.7	481.0	479.7	483.7	503.8	537.2	911.3	4254.5	18730.8	24261.4	22792.9
70°	443.6	446.3	439.6	439.6	455.6	456.9	570.5	2333.0	18118.9	27179.7	26793.5
72.5°	400.9	404.9	394.2	391.5	403.5	398.2	429.0	1119.7	15556.1	28050.9	29066.4
75°	363.5	368.8	344.7	338.0	338.0	334.0	348.7	574.6	10096.4	22882.5	24475.3
77.5°	330.0	340.7	302.0	280.6	275.2	263.2	284.6	351.5	4416.1	10743.0	10519.9
80°	272.5	287.3	248.6	223.1	213.8	200.4	224.5	245.9	1313.5	2494.6	2389.2
82.5°	203.1	209.8	176.4	159.0	151.0	141.7	168.4	171.1	427.6	883.2	998.1
85°	129.7	132.3	108.2	93.6	89.5	85.5	106.9	93.6	163.0	649.4	943.4
87.5°	45.4	52.1	41.4	37.4	40.1	33.4	49.4	28.1	45.4	458.3	567.8
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)