

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: P881605

Luminaire Tested: **NAV-SB1A-830-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P881605
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1A-830-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3886 lumens
Efficiency: N/A
Efficacy: 125.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G2

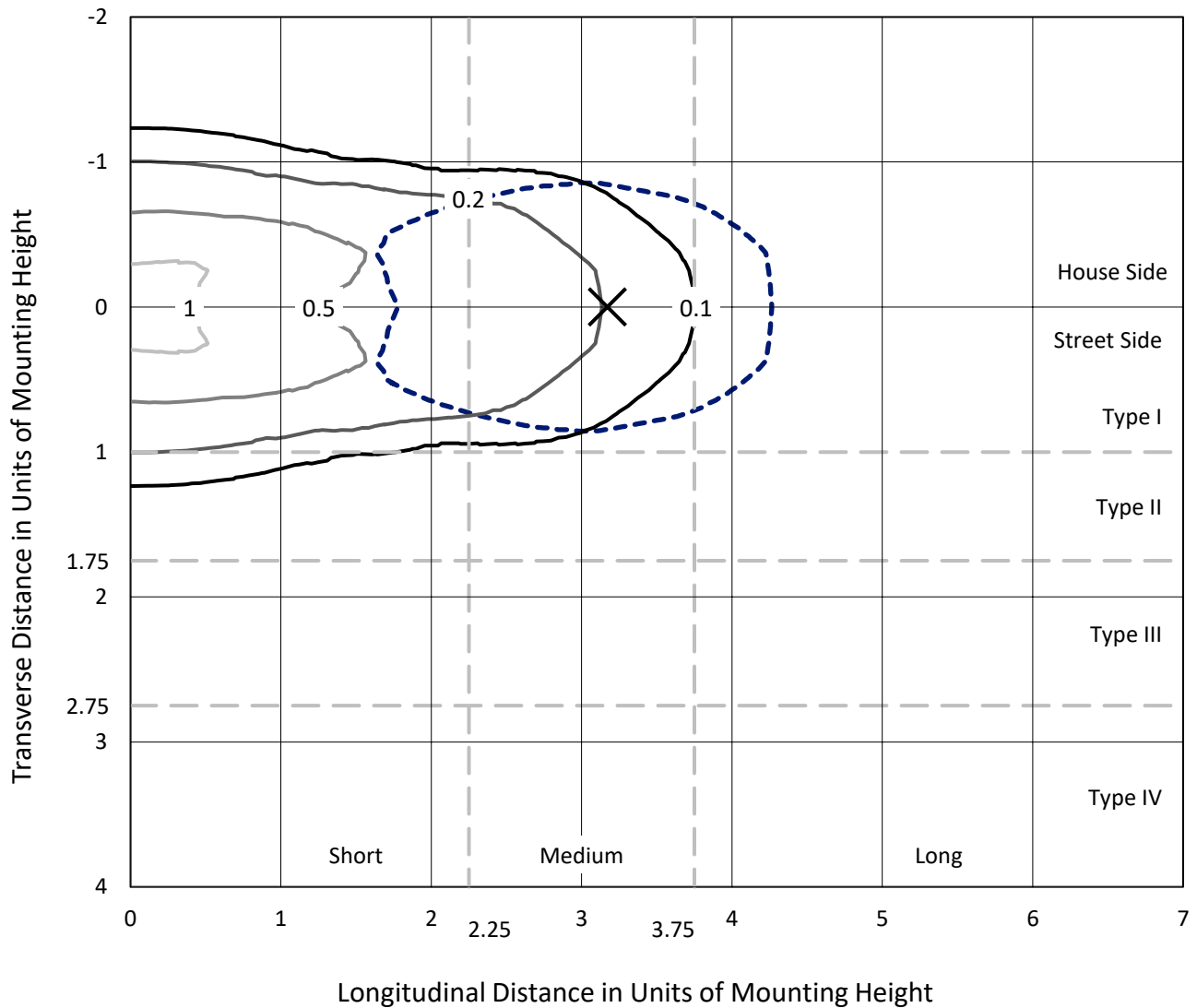
Input Watts (W): 30.9
Input Voltage (V): 120.0
Input Current (Ain): 0.263
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 6.356
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

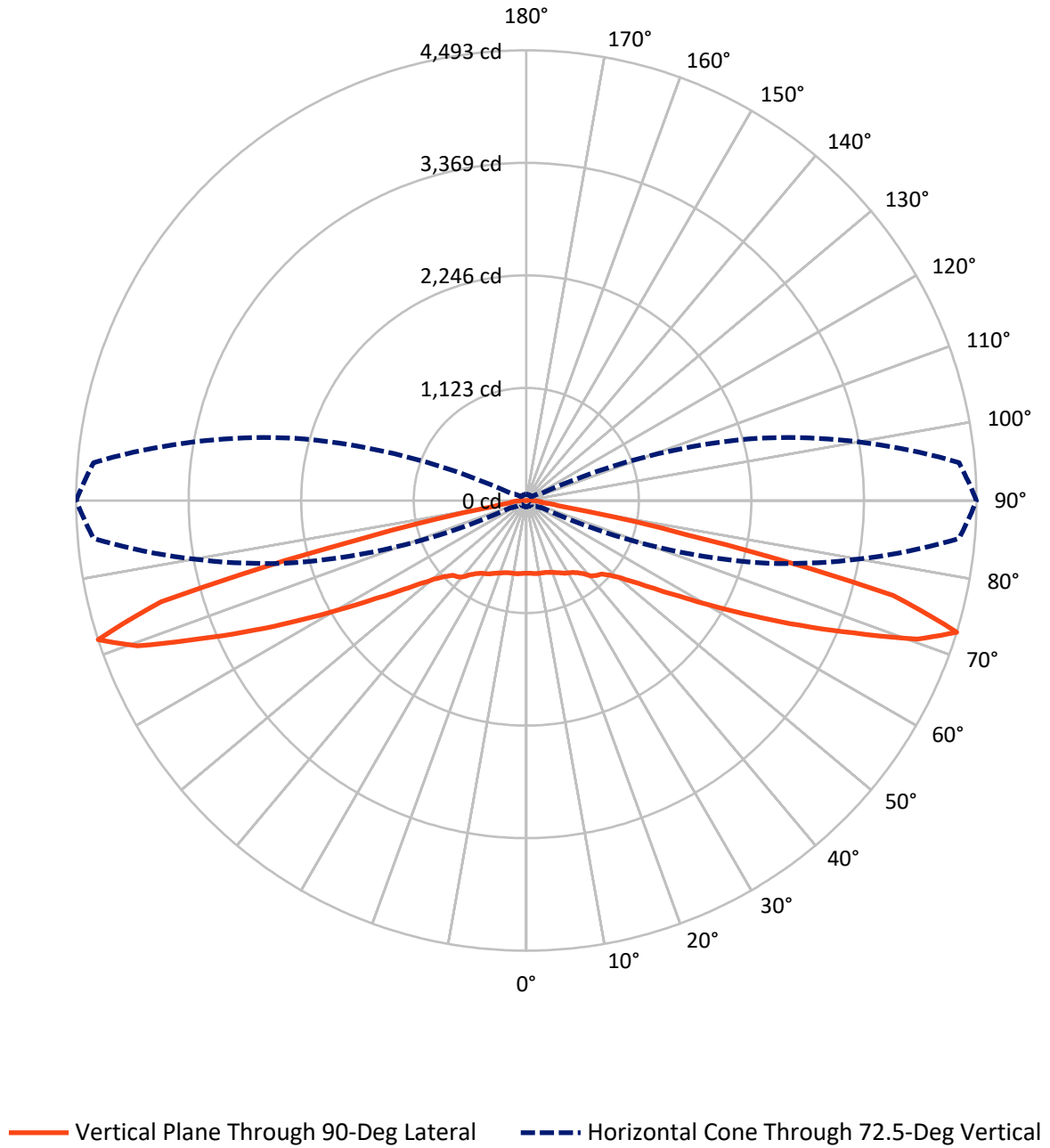
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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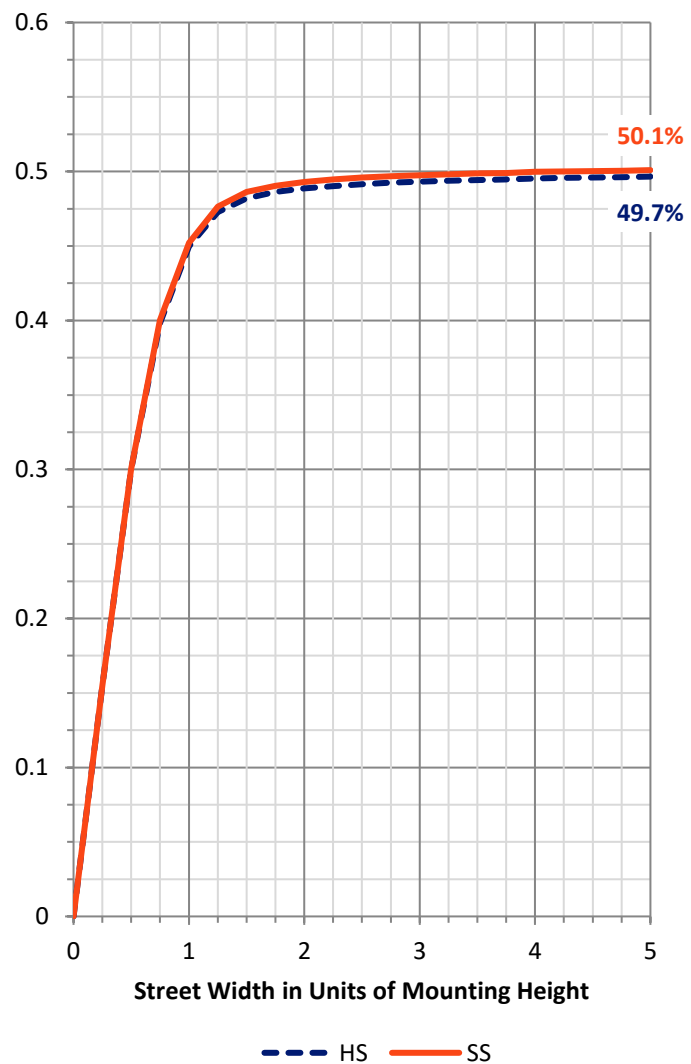
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1943.0	0.0	1943.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1943.0	0.0	1943.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	3886.0	0.0	3886.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.4	1.8
10°-20°	215.3	5.5
20°-30°	359.0	9.2
30°-40°	493.7	12.7
40°-50°	602.9	15.5
50°-60°	697.3	17.9
60°-70°	831.5	21.4
70°-80°	580.3	14.9
80°-90°	35.6	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°	3886.0	100.0
0°-180°	3886.0	100.0

Coefficient of Utilization

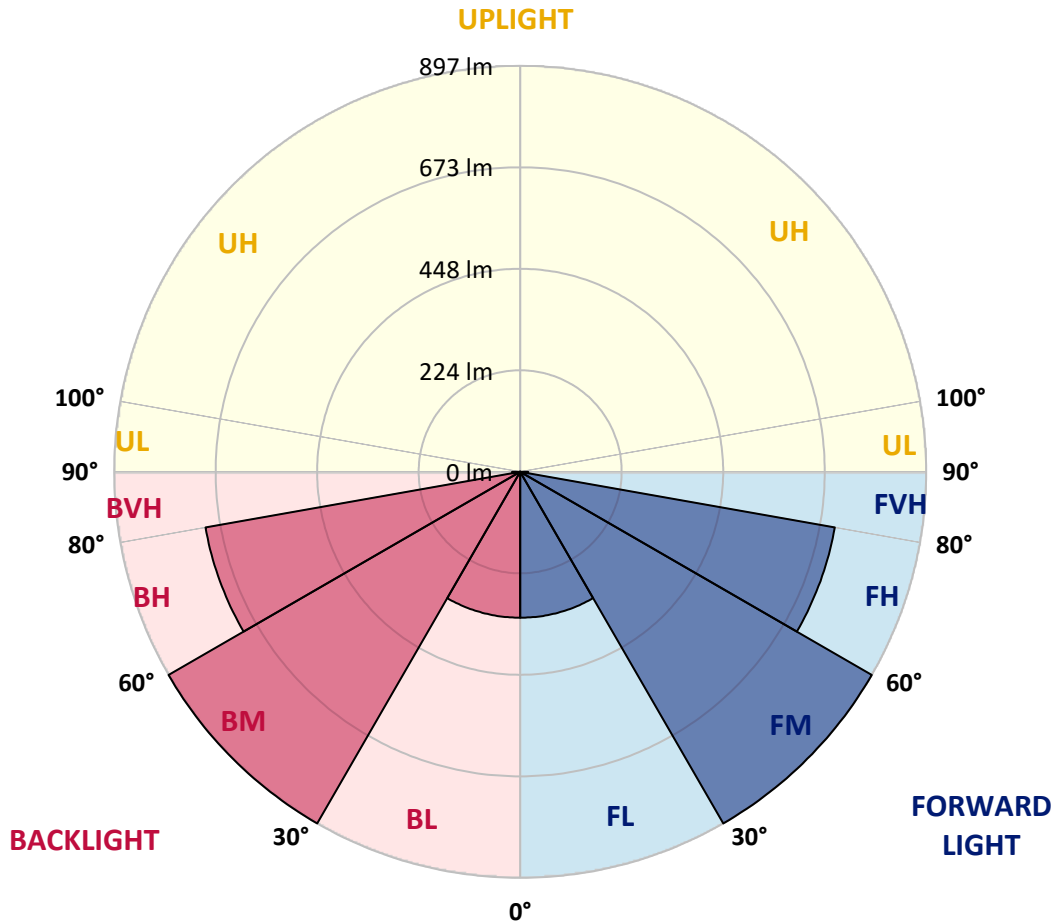


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	322.3	8.3			
FM (30°-60°)	897.0	23.1			
FH (60°-80°)	705.9	18.2			G1/1800
FVH (80°-90°)	17.8	0.5			G1/100
BL (0°-30°)	322.3	8.3	B1/500		
BM (30°-60°)	897.0	23.1	B1/1000		
BH (60°-80°)	705.9	18.2	B2/1000		G2/1000
BVH (80°-90°)	17.8	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	726.1	726.1	726.1	726.1	726.1	726.1	726.1	726.1	726.1	726.1	726.1
2.5°	726.8	727.6	727.6	727.0	728.4	727.2	727.2	726.6	727.2	726.6	726.6
5°	730.5	731.5	731.9	731.7	733.6	732.5	732.5	731.7	731.9	731.3	731.3
7.5°	737.5	738.9	739.8	740.8	743.5	742.2	741.4	738.9	737.9	736.3	736.3
10°	739.8	741.4	744.1	749.5	755.7	755.9	753.4	747.2	742.5	738.7	738.1
12.5°	732.7	735.0	740.6	751.5	765.4	771.0	767.0	756.7	747.4	740.8	739.8
15°	723.9	726.3	734.8	751.3	771.8	784.8	784.4	770.7	755.9	745.6	743.9
17.5°	710.0	712.5	724.7	747.8	776.7	798.2	804.0	790.0	769.1	755.3	753.0
20°	685.0	687.3	704.2	736.7	778.4	812.5	827.5	815.2	789.1	770.3	766.8
22.5°	652.6	656.1	676.0	717.5	774.5	827.3	854.4	845.9	812.5	786.4	781.7
25°	617.9	621.6	644.8	693.9	764.3	838.1	886.2	880.8	838.9	806.5	799.9
27.5°	588.0	591.9	617.1	670.6	748.7	842.2	917.6	920.3	870.9	828.6	821.6
30°	564.4	568.1	595.0	651.8	728.4	838.1	945.1	963.6	903.5	847.8	837.7
32.5°	538.6	543.4	571.7	628.9	704.5	828.2	969.0	1010.5	941.3	868.4	855.6
35°	506.0	510.3	540.1	597.5	673.1	812.3	989.0	1062.6	995.4	899.8	885.6
37.5°	466.3	470.5	500.0	558.2	641.9	790.0	1004.3	1121.2	1059.9	945.1	926.1
40°	426.5	430.4	458.1	514.5	604.5	761.5	1009.7	1178.6	1133.8	1007.2	987.0
42.5°	389.9	393.4	418.8	471.3	562.6	725.1	1002.7	1228.6	1200.1	1050.6	1024.6
45°	356.3	359.4	381.9	430.8	519.0	680.9	981.6	1282.3	1279.0	1081.6	1046.5
47.5°	317.8	320.9	344.3	391.6	475.4	629.1	945.9	1335.2	1388.7	1151.8	1111.3
50°	271.0	273.6	297.6	346.3	430.2	573.9	896.3	1376.7	1527.0	1258.1	1207.3
52.5°	215.4	218.3	241.6	290.4	376.5	514.7	831.1	1403.7	1686.9	1413.5	1350.9
55°	160.3	162.3	182.6	226.4	310.0	447.1	749.3	1411.4	1868.2	1625.8	1547.5
57.5°	116.3	117.5	130.5	163.2	235.0	362.7	649.9	1391.6	2084.0	1898.0	1799.4
60°	94.2	94.6	98.5	113.0	163.4	267.2	529.9	1323.4	2318.2	2248.8	2124.7
62.5°	85.5	85.5	86.5	90.5	110.5	176.4	384.8	1182.1	2569.4	2692.3	2526.0
65°	79.5	79.5	79.9	81.8	87.2	112.3	242.9	952.1	2781.1	3211.7	3001.4
67.5°	74.1	74.3	74.1	74.8	77.9	83.0	140.8	657.6	2895.1	3749.9	3522.9
70°	68.6	69.0	67.9	67.9	70.4	70.6	88.2	360.6	2800.5	4200.9	4141.2
72.5°	62.0	62.6	60.9	60.5	62.4	61.5	66.3	173.1	2404.4	4335.6	4492.5
75°	56.2	57.0	53.3	52.3	52.3	51.6	53.9	88.8	1560.5	3536.7	3782.9
77.5°	51.0	52.7	46.7	43.4	42.5	40.7	44.0	54.3	682.6	1660.5	1626.0
80°	42.1	44.4	38.4	34.5	33.0	31.0	34.7	38.0	203.0	385.6	369.3
82.5°	31.4	32.4	27.3	24.6	23.3	21.9	26.0	26.4	66.1	136.5	154.3
85°	20.0	20.4	16.7	14.5	13.8	13.2	16.5	14.5	25.2	100.4	145.8
87.5°	7.0	8.1	6.4	5.8	6.2	5.2	7.6	4.3	7.0	70.8	87.8
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)