

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: P883605

Luminaire Tested: **NAV-SB4A-740-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883605
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-SB4A-740-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19389 lumens
Efficiency: N/A
Efficacy: 170.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

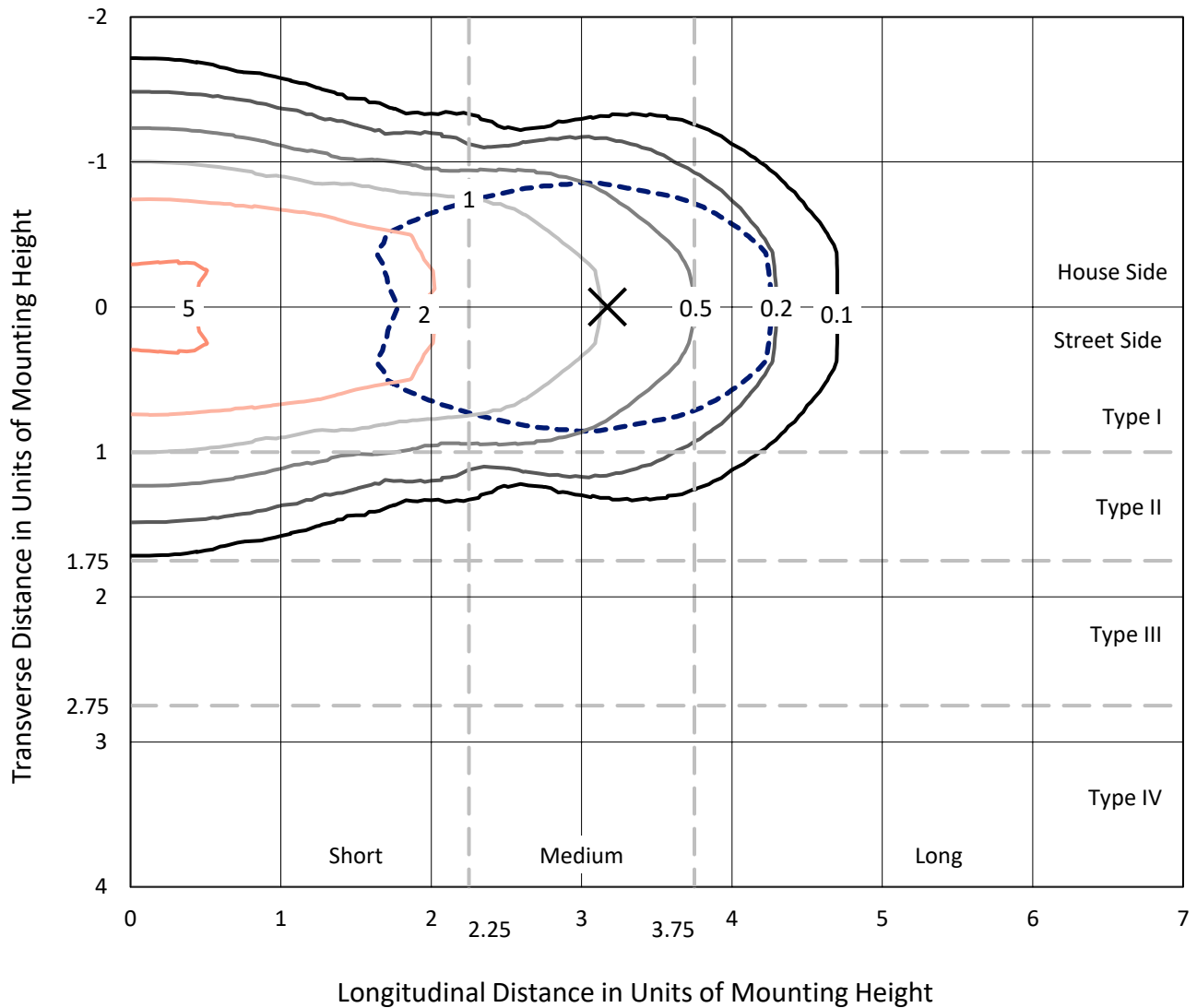
Input Watts (W): 114
Input Voltage (V): 120.0
Input Current (Ain): 0.952
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 8.206
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

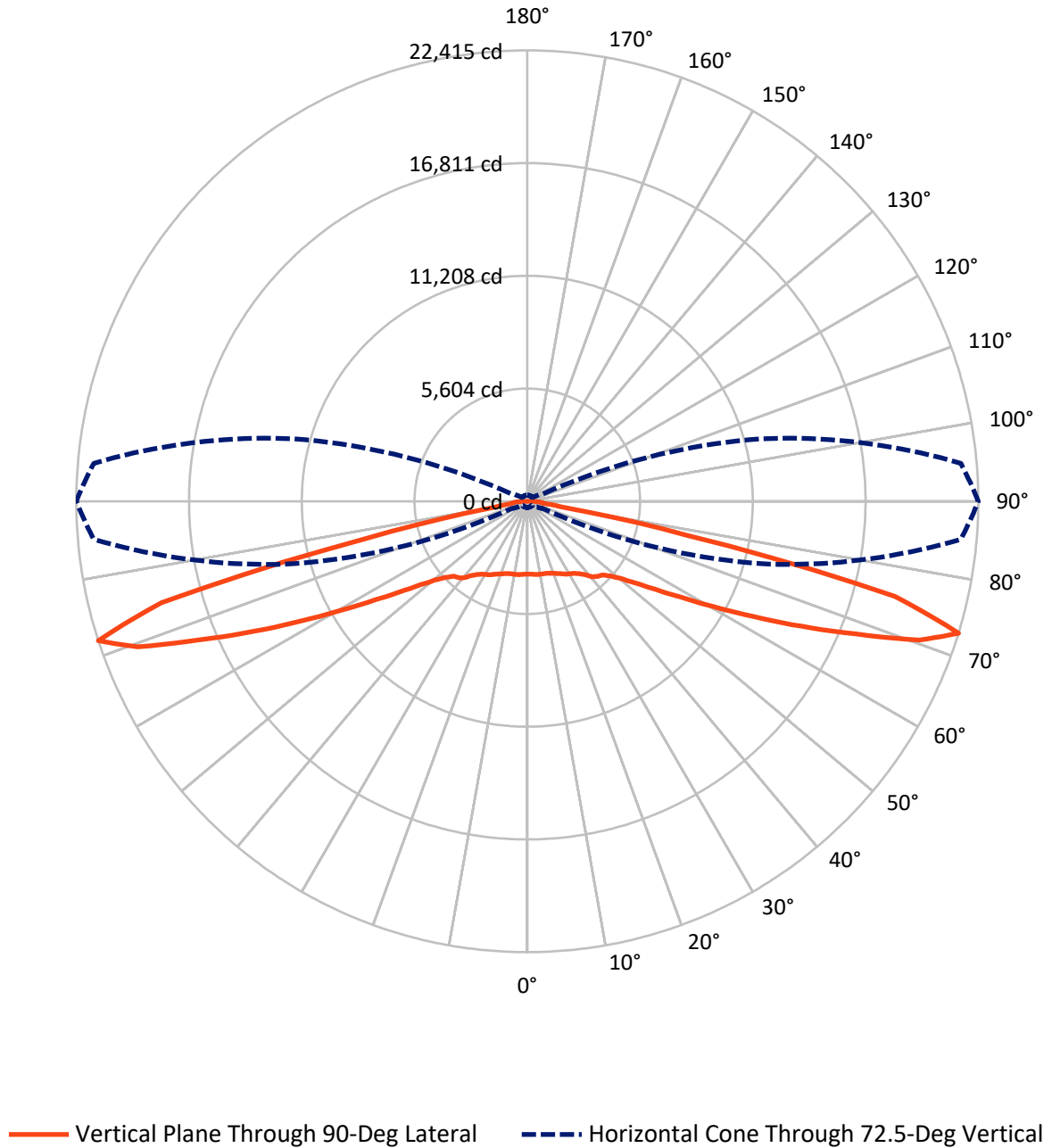
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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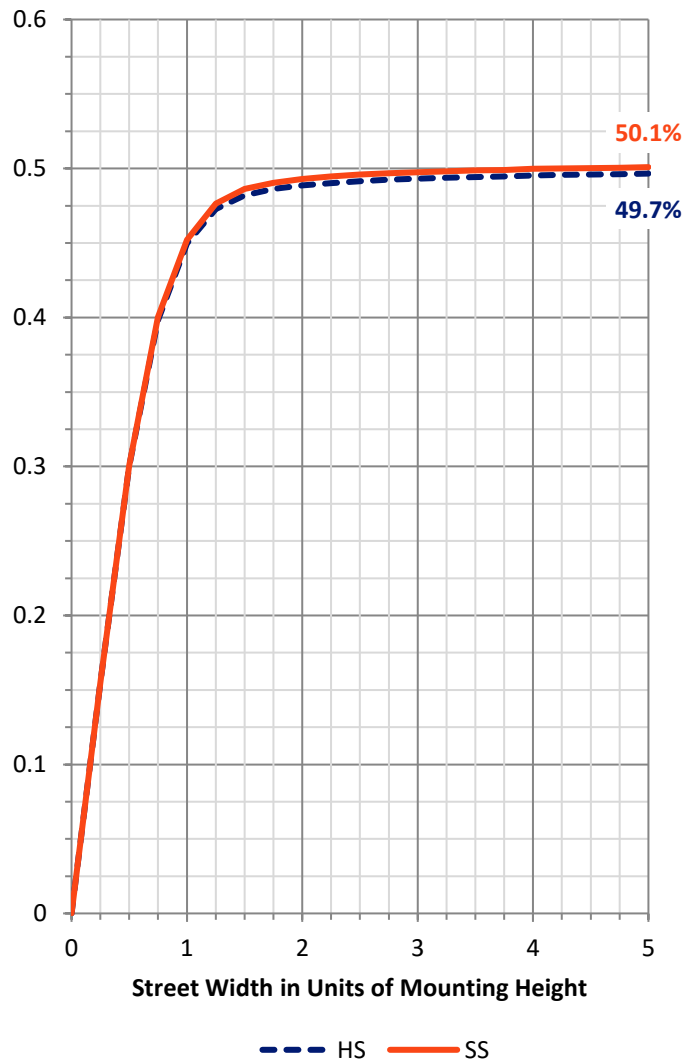
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9694.5	0.0	9694.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9694.5	0.0	9694.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	19389.0	0.0	19389.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	351.3	1.8
10°-20°	1074.1	5.5
20°-30°	1791.0	9.2
30°-40°	2463.2	12.7
40°-50°	3008.2	15.5
50°-60°	3479.3	17.9
60°-70°	4148.5	21.4
70°-80°	2895.4	14.9
80°-90°	177.8	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°	19389.0	100.0
0°-180°	19389.0	100.0

Coefficient of Utilization



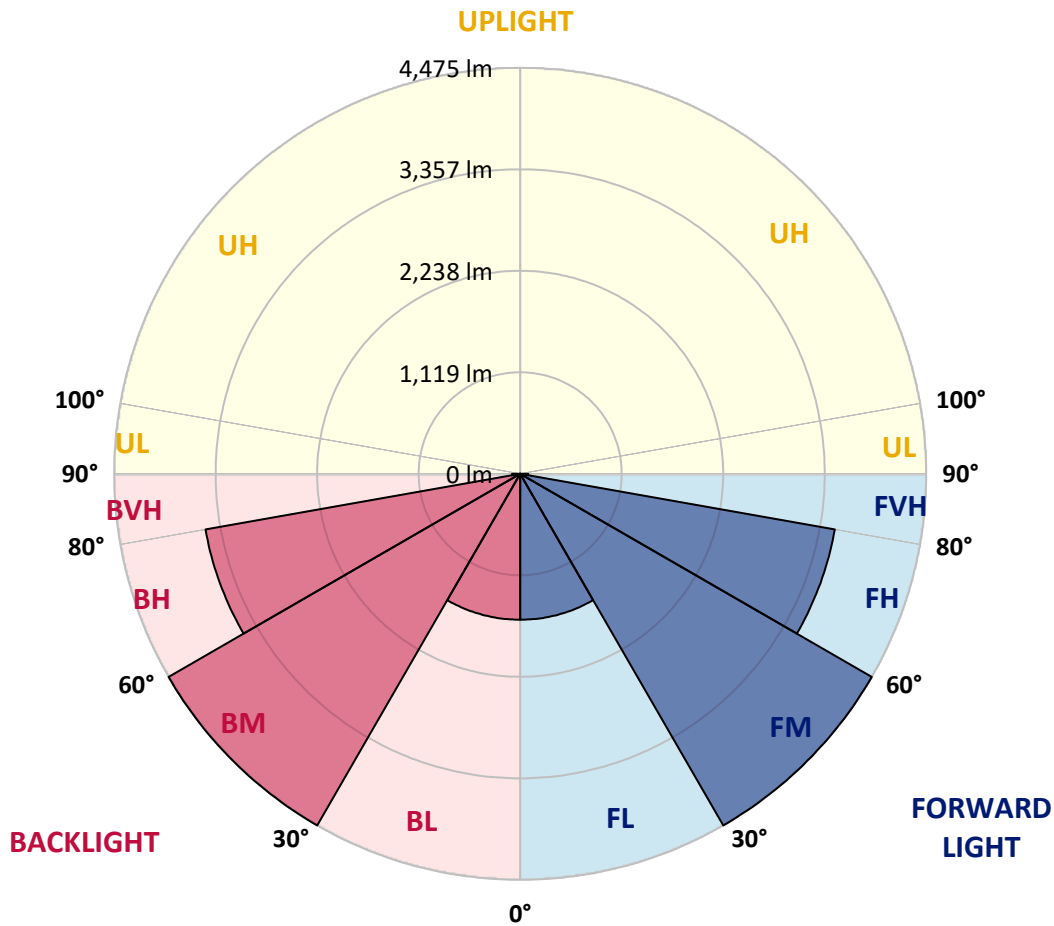
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1608.2	8.3			
FM (30°-60°)	4475.4	23.1			
FH (60°-80°)	3522.0	18.2			G2/5000
FVH (80°-90°)	88.9	0.5			G1/100
BL (0°-30°)	1608.2	8.3	B3/2500		
BM (30°-60°)	4475.4	23.1	B3/5000		
BH (60°-80°)	3522.0	18.2	B4/5000		G4/5000
BVH (80°-90°)	88.9	0.5			G1/100
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°	3623.0	3623.0	3623.0	3623.0	3623.0	3623.0	3623.0	3623.0	3623.0	3623.0	3623.0
2.5°	3626.1	3630.3	3630.3	3627.2	3634.4	3628.2	3628.2	3625.1	3628.2	3625.1	3625.1
5°	3644.7	3649.8	3651.9	3650.9	3660.1	3655.0	3655.0	3650.9	3651.9	3648.8	3648.8
7.5°	3679.7	3686.9	3691.0	3696.2	3709.6	3703.4	3699.3	3686.9	3681.8	3673.5	3673.5
10°	3691.0	3699.3	3712.7	3739.5	3770.4	3771.4	3759.1	3728.1	3704.4	3685.9	3682.8
12.5°	3656.0	3667.3	3695.2	3749.8	3818.8	3846.6	3827.1	3775.5	3729.2	3696.2	3691.0
15°	3611.7	3624.1	3666.3	3748.8	3850.8	3915.7	3913.6	3845.6	3771.4	3719.9	3711.7
17.5°	3542.7	3555.0	3615.8	3731.2	3875.5	3982.7	4011.5	3941.4	3837.4	3768.3	3757.0
20°	3418.0	3429.3	3513.8	3675.6	3883.7	4053.8	4129.0	4067.2	3937.3	3843.6	3826.0
22.5°	3256.2	3273.7	3372.6	3579.8	3864.2	4128.0	4262.9	4220.7	4053.8	3923.9	3900.2
25°	3083.1	3101.6	3217.0	3462.3	3813.7	4181.5	4421.6	4394.8	4185.7	4023.9	3990.9
27.5°	2933.7	2953.3	3079.0	3345.9	3735.4	4202.1	4578.3	4591.7	4345.4	4134.1	4099.1
30°	2816.2	2834.8	2968.7	3252.1	3634.4	4181.5	4715.3	4808.0	4508.2	4230.0	4179.5
32.5°	2687.4	2711.1	2852.3	3137.7	3514.8	4132.1	4834.8	5042.0	4696.8	4333.0	4269.1
35°	2524.6	2546.2	2694.6	2981.1	3358.2	4052.7	4934.8	5301.6	4966.7	4489.6	4418.5
37.5°	2326.7	2347.4	2494.7	2785.3	3202.6	3941.4	5011.0	5594.3	5288.2	4715.3	4620.5
40°	2127.9	2147.4	2285.5	2566.8	3016.1	3799.2	5037.8	5880.7	5657.1	5025.5	4924.5
42.5°	1945.5	1963.0	2089.7	2351.5	2806.9	3617.9	5002.8	6130.1	5987.9	5241.9	5112.0
45°	1777.5	1793.0	1905.3	2149.5	2589.5	3397.4	4897.7	6398.0	6381.5	5396.4	5221.3
47.5°	1585.9	1601.3	1717.7	1953.7	2372.1	3138.7	4719.4	6661.8	6928.7	5746.8	5544.8
50°	1351.9	1365.3	1484.9	1728.1	2146.4	2863.6	4472.1	6868.9	7619.1	6277.5	6024.0
52.5°	1074.8	1089.2	1205.6	1448.8	1878.5	2567.9	4146.5	7003.9	8416.7	7052.4	6740.1
55°	799.6	809.9	910.9	1129.4	1546.7	2230.9	3738.4	7042.1	9321.4	8111.7	7721.1
57.5°	580.1	586.3	651.2	814.1	1172.6	1809.5	3242.8	6943.1	10398.2	9469.8	8978.3
60°	469.9	471.9	491.5	563.7	815.1	1333.4	2644.1	6603.1	11566.7	11220.5	10601.2
62.5°	426.6	426.6	431.8	451.3	551.3	880.0	1919.7	5898.3	12819.7	13432.9	12603.4
65°	396.7	396.7	398.8	408.1	434.8	560.6	1211.8	4750.3	13876.0	16024.4	14975.4
67.5°	369.9	371.0	369.9	373.0	388.5	414.2	702.8	3280.9	14444.8	18709.8	17577.3
70°	342.1	344.2	339.0	339.0	351.4	352.4	440.0	1799.2	13972.8	20960.3	20662.5
72.5°	309.1	312.2	304.0	301.9	311.2	307.1	330.8	863.5	11996.4	21632.1	22415.2
75°	280.3	284.4	265.9	260.7	260.7	257.6	268.9	443.1	7786.0	17646.3	18874.6
77.5°	254.5	262.8	232.9	216.4	212.3	203.0	219.5	271.0	3405.6	8284.8	8112.7
80°	210.2	221.5	191.7	172.1	164.9	154.6	173.1	189.6	1012.9	1923.8	1842.4
82.5°	156.6	161.8	136.0	122.6	116.4	109.2	129.8	131.9	329.7	681.1	769.7
85°	100.0	102.0	83.5	72.1	69.0	65.9	82.4	72.1	125.7	500.8	727.5
87.5°	35.0	40.2	31.9	28.9	30.9	25.8	38.1	21.6	35.0	353.4	437.9
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)