

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: P884415

Luminaire Tested: **NAV-SB5B-722-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P884415
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-SB5B-722-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22525 lumens
Efficiency: N/A
Efficacy: 123.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

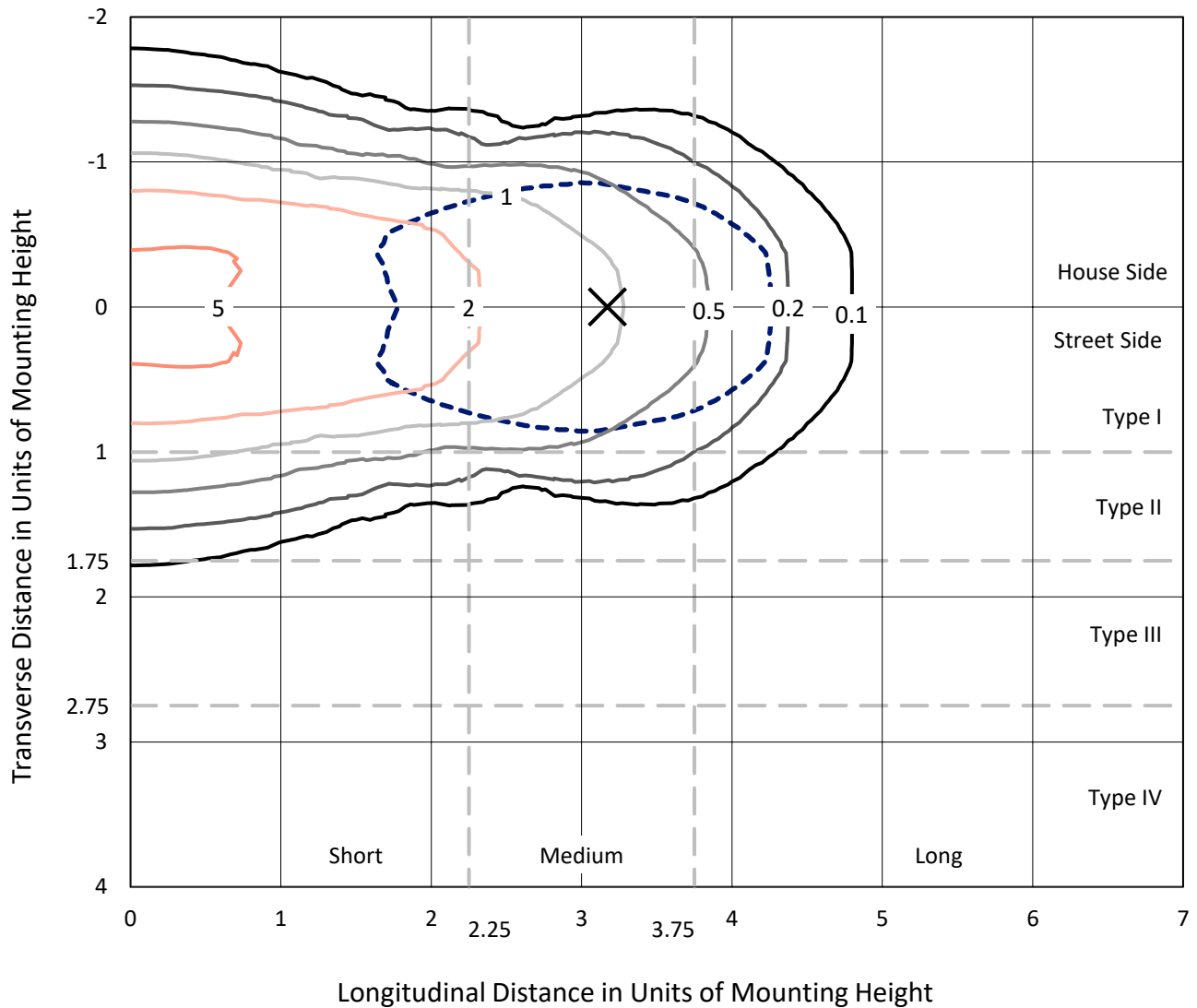
Input Watts (W): 182.7
Input Voltage (V): 120.0
Input Current (Ain): 1.547
Voltage Rise (V): NR
Power Factor: 0.992
Total Harmonic Distortion (THDi): 11.125
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

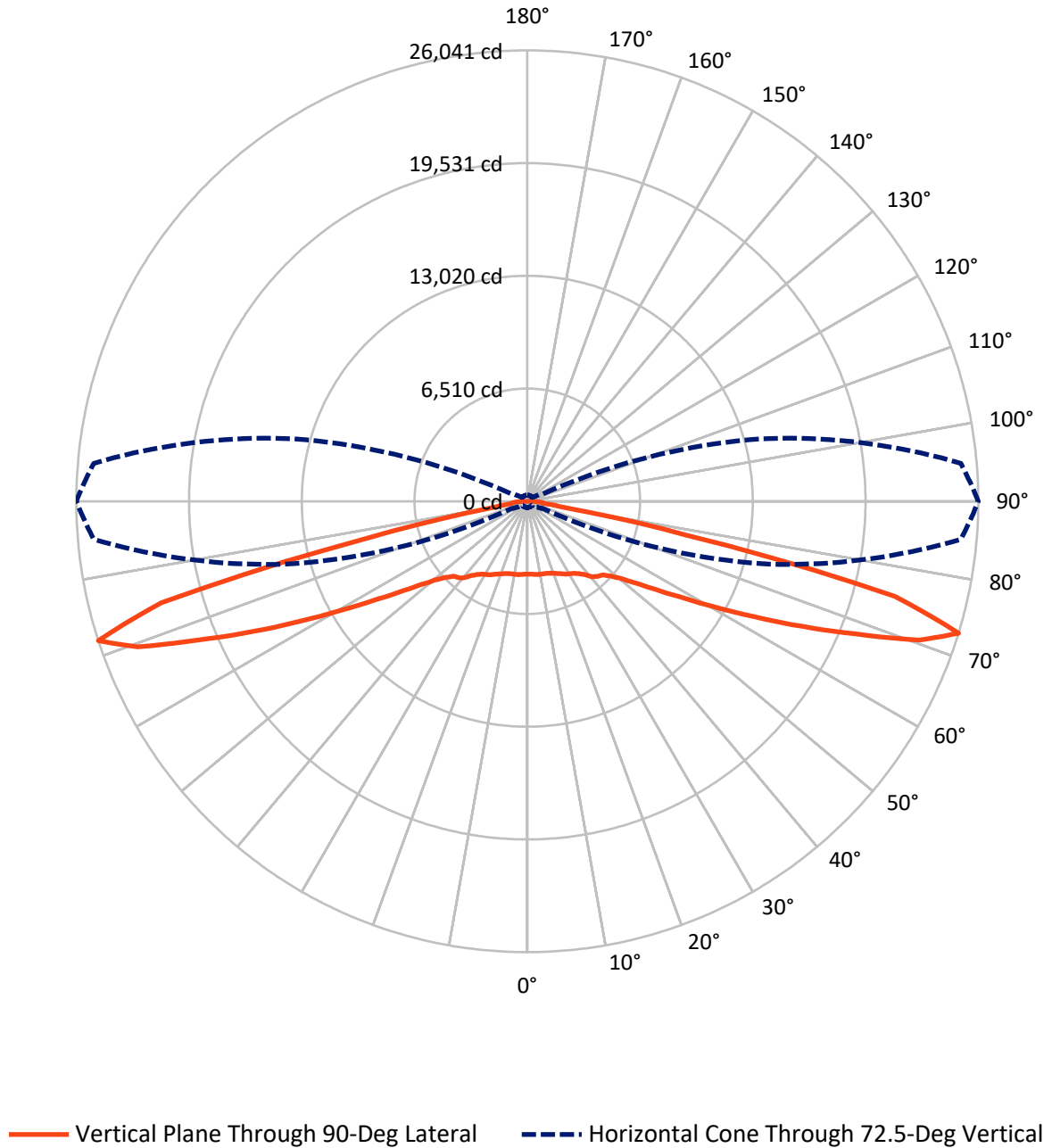
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 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	11262.5	0.0	11262.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11262.5	0.0	11262.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	22525.0	0.0	22525.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	408.1	1.8
10°-20°	1247.9	5.5
20°-30°	2080.7	9.2
30°-40°	2861.6	12.7
40°-50°	3494.8	15.5
50°-60°	4042.1	17.9
60°-70°	4819.5	21.4
70°-80°	3363.7	14.9
80°-90°	206.6	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°	22525.0	100.0
0°-180°	22525.0	100.0

Coefficient of Utilization



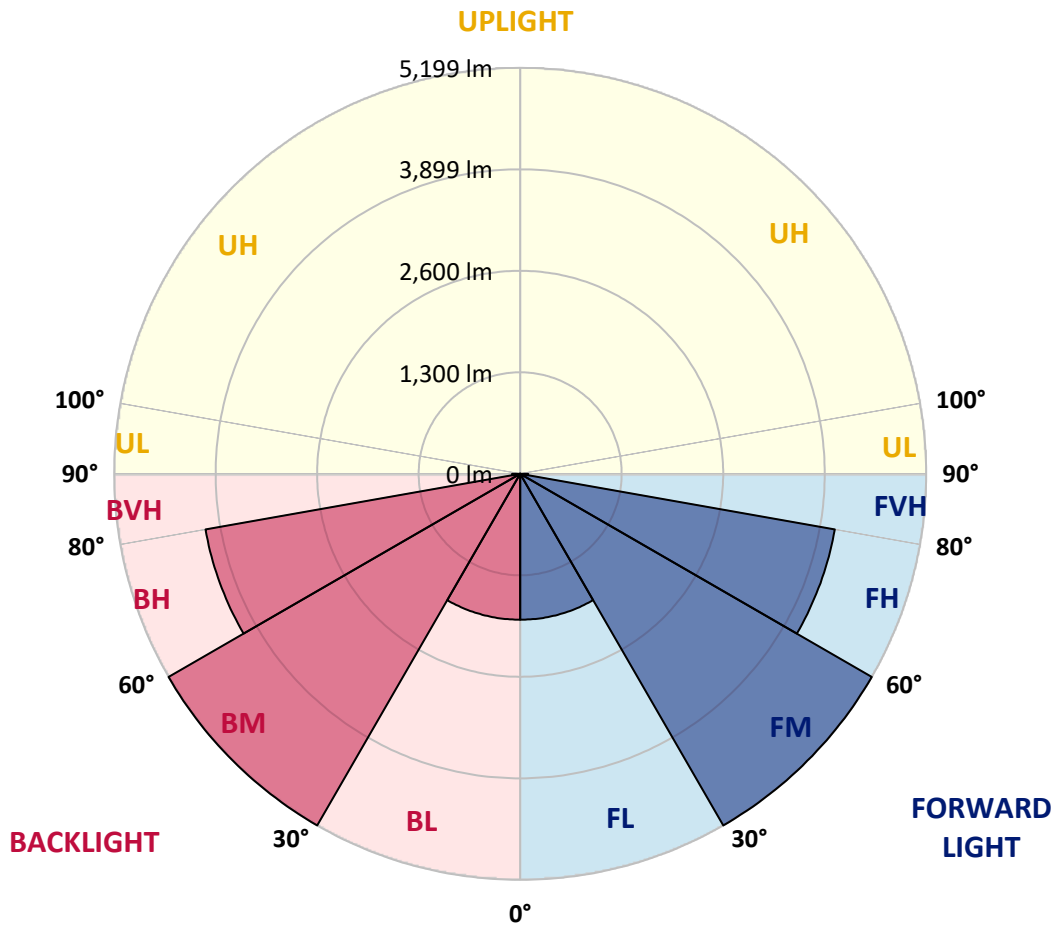
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1868.3	8.3			
FM (30°-60°)	5199.2	23.1			
FH (60°-80°)	4091.6	18.2			G2/5000
FVH (80°-90°)	103.3	0.5			G2/225
BL (0°-30°)	1868.3	8.3	B3/2500		
BM (30°-60°)	5199.2	23.1	B4/8500		
BH (60°-80°)	4091.6	18.2	B4/5000		G4/5000
BVH (80°-90°)	103.3	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°	4209.0	4209.0	4209.0	4209.0	4209.0	4209.0	4209.0	4209.0	4209.0	4209.0	4209.0
2.5°	4212.6	4217.4	4217.4	4213.8	4222.2	4215.0	4215.0	4211.4	4215.0	4211.4	4211.4
5°	4234.2	4240.2	4242.6	4241.4	4252.1	4246.1	4246.1	4241.4	4242.6	4239.0	4239.0
7.5°	4274.9	4283.3	4288.0	4294.0	4309.6	4302.4	4297.6	4283.3	4277.3	4267.7	4267.7
10°	4288.0	4297.6	4313.2	4344.3	4380.2	4381.4	4367.1	4331.1	4303.6	4282.1	4278.5
12.5°	4247.3	4260.5	4292.8	4356.3	4436.5	4468.8	4446.1	4386.2	4332.3	4294.0	4288.0
15°	4195.9	4210.2	4259.3	4355.1	4473.6	4549.0	4546.6	4467.6	4381.4	4321.6	4312.0
17.5°	4115.7	4130.0	4200.7	4334.7	4502.3	4626.8	4660.3	4578.9	4458.0	4377.8	4364.7
20°	3970.8	3984.0	4082.1	4270.1	4511.9	4709.4	4796.8	4725.0	4574.2	4465.2	4444.9
22.5°	3782.9	3803.2	3918.1	4158.8	4489.2	4795.6	4952.4	4903.4	4709.4	4558.6	4531.1
25°	3581.7	3603.3	3737.4	4022.3	4430.5	4857.9	5136.8	5105.7	4862.7	4674.7	4636.4
27.5°	3408.2	3430.9	3577.0	3887.0	4339.5	4881.8	5318.8	5334.3	5048.2	4802.8	4762.1
30°	3271.7	3293.2	3448.9	3778.1	4222.2	4857.9	5478.0	5585.7	5237.4	4914.1	4855.5
32.5°	3122.1	3149.6	3313.6	3645.2	4083.3	4800.4	5616.8	5857.5	5456.4	5033.8	4959.6
35°	2932.9	2958.1	3130.4	3463.2	3901.4	4708.2	5733.0	6159.1	5770.1	5215.8	5133.2
37.5°	2703.1	2727.0	2898.2	3235.8	3720.6	4578.9	5821.5	6499.1	6143.6	5478.0	5367.8
40°	2472.0	2494.8	2655.2	2982.0	3503.9	4413.7	5852.7	6831.9	6572.1	5838.3	5721.0
42.5°	2260.1	2280.5	2427.7	2731.8	3260.9	4203.0	5812.0	7121.6	6956.4	6089.7	5938.9
45°	2065.0	2083.0	2213.5	2497.2	3008.3	3946.9	5689.9	7432.8	7413.7	6269.3	6065.7
47.5°	1842.4	1860.3	1995.6	2269.7	2755.7	3646.4	5482.8	7739.3	8049.4	6676.3	6441.6
50°	1570.6	1586.2	1725.0	2007.6	2493.6	3326.8	5195.5	7979.9	8851.4	7292.8	6998.3
52.5°	1248.6	1265.3	1400.6	1683.1	2182.3	2983.2	4817.2	8136.7	9778.0	8193.0	7830.3
55°	929.0	940.9	1058.2	1312.0	1796.9	2591.7	4343.1	8181.0	10829.0	9423.6	8969.9
57.5°	674.0	681.2	756.6	945.7	1362.3	2102.1	3767.3	8066.1	12080.0	11001.4	10430.4
60°	545.9	548.3	571.0	654.8	946.9	1549.1	3071.8	7671.1	13437.5	13035.3	12315.9
62.5°	495.6	495.6	501.6	524.3	640.5	1022.3	2230.2	6852.2	14893.2	15605.5	14641.8
65°	460.9	460.9	463.3	474.1	505.2	651.2	1407.8	5518.7	16120.3	18616.2	17397.6
67.5°	429.8	431.0	429.8	433.4	451.3	481.2	816.4	3811.6	16781.1	21735.9	20420.3
70°	397.4	399.8	393.8	393.8	408.2	409.4	511.2	2090.2	16232.8	24350.4	24004.4
72.5°	359.1	362.7	353.1	350.8	361.5	356.7	384.3	1003.2	13936.7	25130.9	26040.7
75°	325.6	330.4	308.9	302.9	302.9	299.3	312.4	514.8	9045.4	20500.5	21927.4
77.5°	295.7	305.3	270.5	251.4	246.6	235.8	255.0	314.8	3956.4	9624.8	9424.8
80°	244.2	257.4	222.7	199.9	191.5	179.6	201.1	220.3	1176.8	2235.0	2140.4
82.5°	182.0	187.9	158.0	142.5	135.3	126.9	150.8	153.2	383.1	791.3	894.2
85°	116.1	118.5	97.0	83.8	80.2	76.6	95.8	83.8	146.0	581.8	845.2
87.5°	40.7	46.7	37.1	33.5	35.9	29.9	44.3	25.1	40.7	410.6	508.8
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)