

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: P884265

Luminaire Tested: **NAV-SB5A-730-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P884265
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-SB5A-730-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22166 lumens
Efficiency: N/A
Efficacy: 156.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

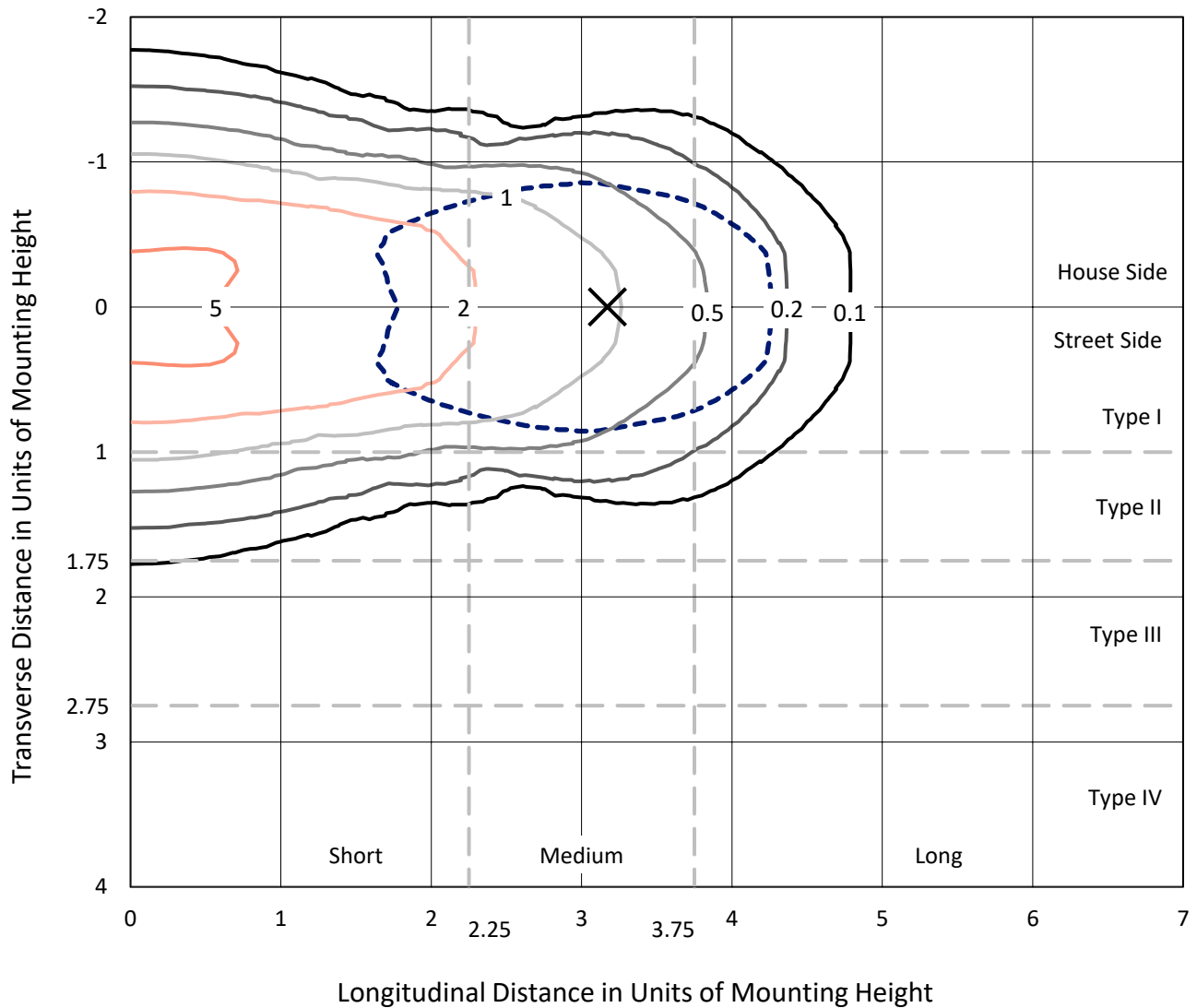
Input Watts (W): 141.7
Input Voltage (V): 120.0
Input Current (Ain): 1.201
Voltage Rise (V): NR
Power Factor: 0.992
Total Harmonic Distortion (THDi): 10.503
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

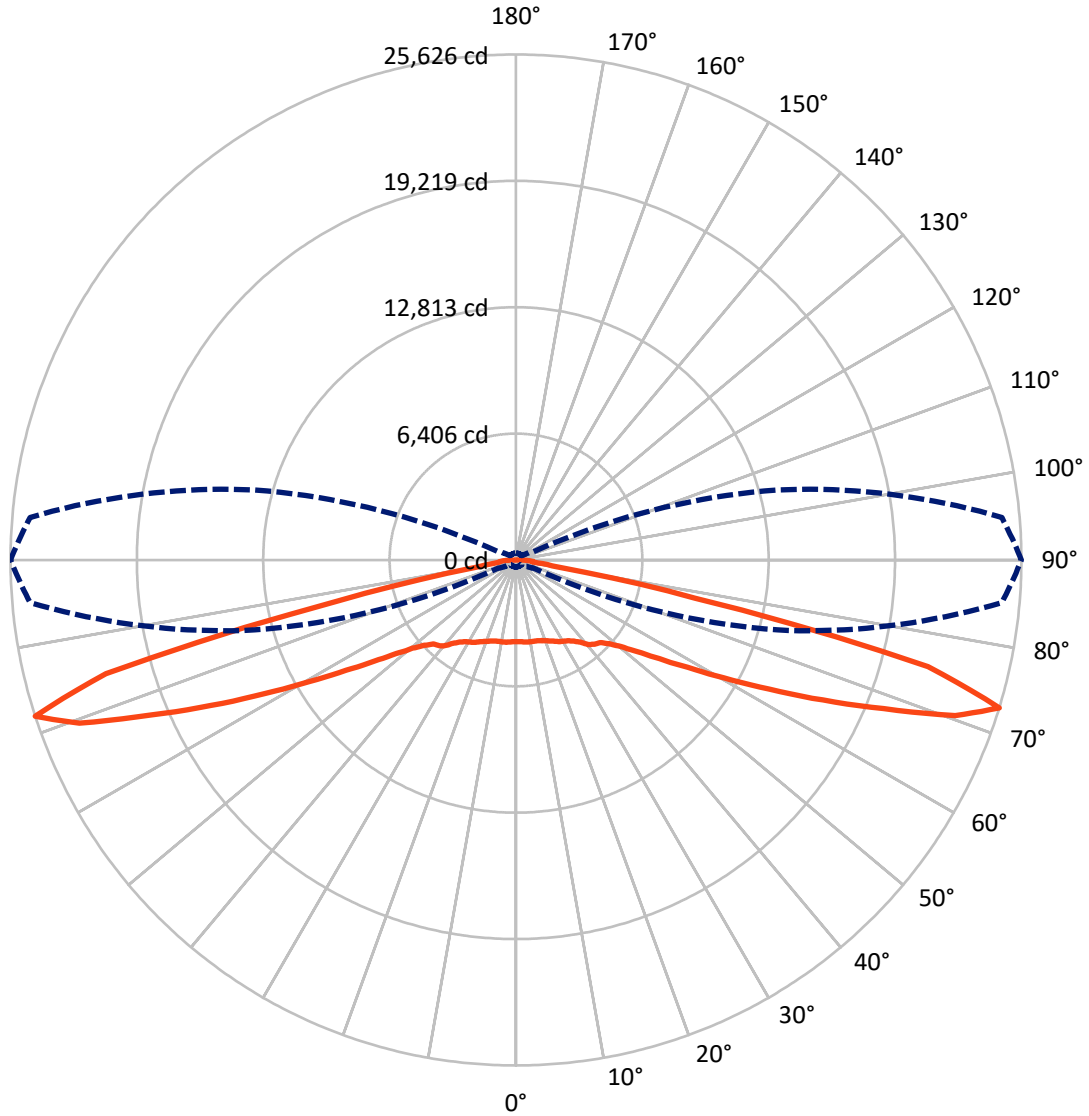
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 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	11083.0	0.0	11083.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11083.0	0.0	11083.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	22166.0	0.0	22166.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	401.6	1.8
10°-20°	1228.0	5.5
20°-30°	2047.5	9.2
30°-40°	2816.0	12.7
40°-50°	3439.1	15.5
50°-60°	3977.7	17.9
60°-70°	4742.7	21.4
70°-80°	3310.1	14.9
80°-90°	203.3	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°	22166.0	100.0
0°-180°	22166.0	100.0



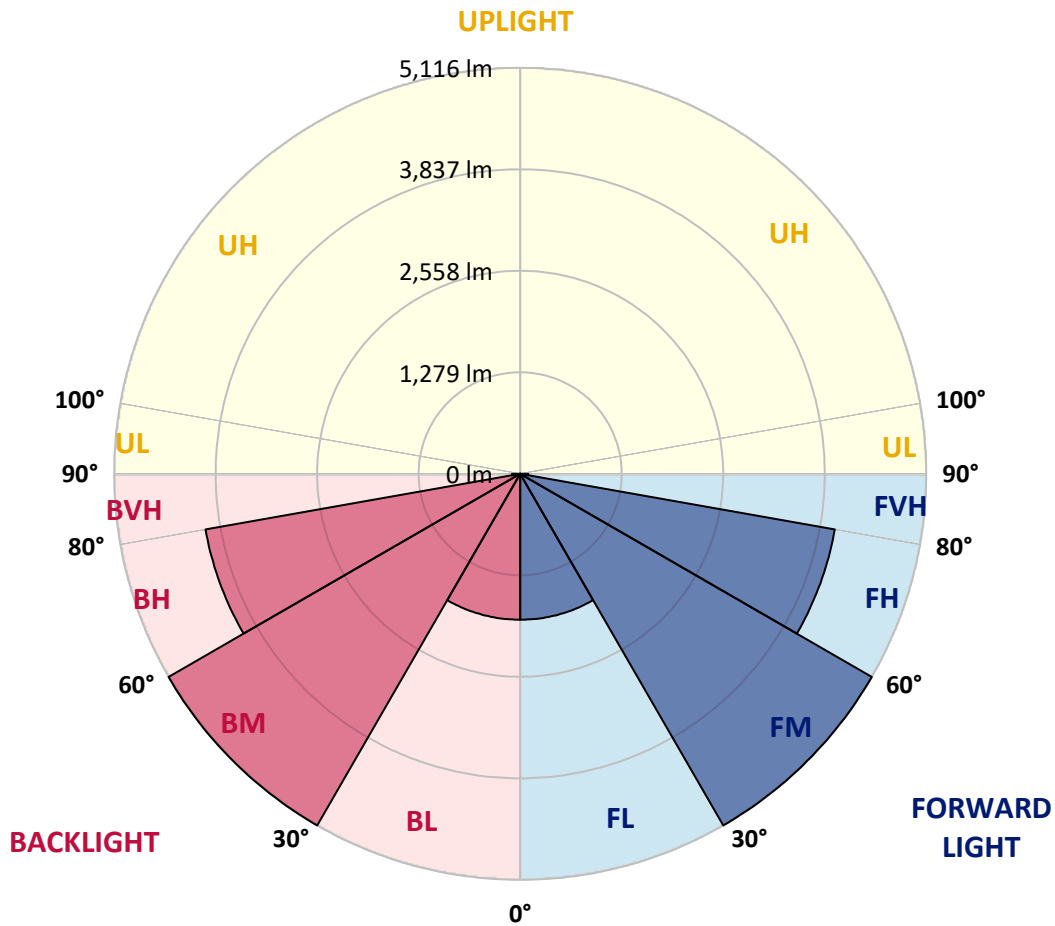
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1838.6	8.3			
FM (30°-60°)	5116.4	23.1			
FH (60°-80°)	4026.4	18.2			G2/5000
FVH (80°-90°)	101.7	0.5			G2/225
BL (0°-30°)	1838.6	8.3	B3/2500		
BM (30°-60°)	5116.4	23.1	B4/8500		
BH (60°-80°)	4026.4	18.2	B4/5000		G4/5000
BVH (80°-90°)	101.7	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°	4142.0	4142.0	4142.0	4142.0	4142.0	4142.0	4142.0	4142.0	4142.0	4142.0	4142.0
2.5°	4145.5	4150.2	4150.2	4146.7	4154.9	4147.8	4147.8	4144.3	4147.8	4144.3	4144.3
5°	4166.7	4172.6	4174.9	4173.8	4184.4	4178.5	4178.5	4173.8	4174.9	4171.4	4171.4
7.5°	4206.7	4215.0	4219.7	4225.6	4240.9	4233.8	4229.1	4215.0	4209.1	4199.7	4199.7
10°	4219.7	4229.1	4244.4	4275.1	4310.4	4311.6	4297.5	4262.1	4235.0	4213.8	4210.3
12.5°	4179.6	4192.6	4224.4	4286.8	4365.8	4397.6	4375.2	4316.3	4263.3	4225.6	4219.7
15°	4129.0	4143.1	4191.4	4285.7	4402.3	4476.5	4474.2	4396.4	4311.6	4252.7	4243.3
17.5°	4050.1	4064.2	4133.7	4265.6	4430.6	4553.1	4586.1	4506.0	4387.0	4308.1	4295.1
20°	3907.5	3920.5	4017.1	4202.0	4440.0	4634.4	4720.4	4649.7	4501.3	4394.0	4374.0
22.5°	3722.6	3742.6	3855.7	4092.5	4417.6	4719.2	4873.5	4825.2	4634.4	4485.9	4458.8
25°	3524.7	3545.9	3677.8	3958.2	4359.9	4780.4	5054.9	5024.3	4785.2	4600.2	4562.5
27.5°	3353.8	3376.2	3520.0	3825.1	4270.4	4804.0	5234.0	5249.3	4967.7	4726.3	4686.2
30°	3219.6	3240.8	3393.9	3717.9	4154.9	4780.4	5390.7	5496.7	5153.9	4835.8	4778.1
32.5°	3072.3	3099.4	3260.8	3587.1	4018.3	4723.9	5527.3	5764.1	5369.5	4953.6	4880.6
35°	2886.2	2910.9	3080.5	3408.0	3839.2	4633.2	5641.6	6061.0	5678.1	5132.7	5051.4
37.5°	2660.0	2683.6	2852.0	3184.2	3661.3	4506.0	5728.8	6395.5	6045.6	5390.7	5282.3
40°	2432.6	2455.0	2612.9	2934.5	3448.1	4343.4	5759.4	6723.0	6467.4	5745.2	5629.8
42.5°	2224.1	2244.1	2389.0	2688.3	3209.0	4136.1	5719.3	7008.1	6845.5	5992.6	5844.2
45°	2032.1	2049.8	2178.2	2457.4	2960.4	3884.0	5599.2	7314.4	7295.5	6169.3	5969.1
47.5°	1813.0	1830.7	1963.8	2233.5	2711.8	3588.3	5395.4	7616.0	7921.1	6569.9	6339.0
50°	1545.6	1560.9	1697.5	1975.6	2453.8	3273.7	5112.6	7852.7	8710.3	7176.6	6886.8
52.5°	1228.7	1245.2	1378.3	1656.3	2147.5	2935.6	4740.4	8007.1	9622.1	8062.4	7705.5
55°	914.2	925.9	1041.4	1291.1	1768.2	2550.4	4273.9	8050.7	10656.5	9273.4	8827.0
57.5°	663.2	670.3	744.5	930.6	1340.6	2068.6	3707.3	7937.6	11887.5	10826.1	10264.2
60°	537.2	539.5	561.9	644.4	931.8	1524.4	3022.8	7548.8	13223.4	12827.6	12119.6
62.5°	487.7	487.7	493.6	516.0	630.2	1006.0	2194.7	6743.0	14655.9	15356.8	14408.5
65°	453.5	453.5	455.9	466.5	497.1	640.8	1385.4	5430.7	15863.3	18319.5	17120.3
67.5°	422.9	424.1	422.9	426.4	444.1	473.6	803.4	3750.8	16513.6	21389.5	20094.8
70°	391.1	393.5	387.6	387.6	401.7	402.9	503.0	2056.8	15974.1	23962.3	23621.8
72.5°	353.4	356.9	347.5	345.2	355.8	351.1	378.1	987.2	13714.6	24730.4	25625.7
75°	320.4	325.1	303.9	298.0	298.0	294.5	307.5	506.6	8901.2	20173.8	21578.0
77.5°	291.0	300.4	266.2	247.4	242.7	232.1	250.9	309.8	3893.4	9471.4	9274.6
80°	240.3	253.3	219.1	196.7	188.5	176.7	197.9	216.8	1158.0	2199.4	2106.3
82.5°	179.1	185.0	155.5	140.2	133.1	124.9	148.4	150.8	377.0	778.7	880.0
85°	114.3	116.6	95.4	82.5	78.9	75.4	94.2	82.5	143.7	572.5	831.7
87.5°	40.1	45.9	36.5	33.0	35.3	29.5	43.6	24.7	40.1	404.1	500.7
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)