

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: P883975

Luminaire Tested: **NAV-SB4C-827-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883975
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-SB4C-827-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24395 lumens
Efficiency: N/A
Efficacy: 121.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

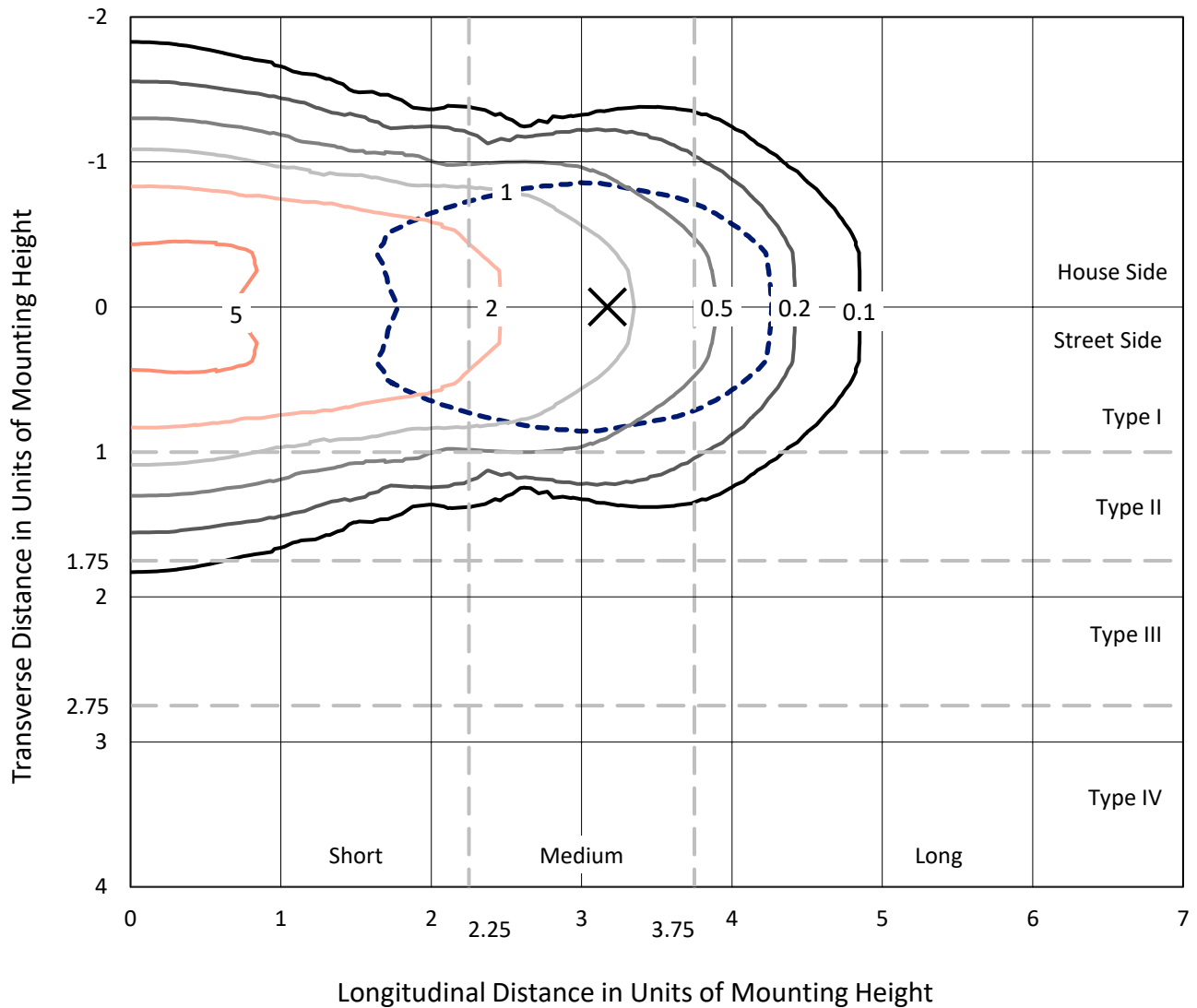
Input Watts (W): 200.7
Input Voltage (V): 120.0
Input Current (Ain): 1.714
Voltage Rise (V): NR
Power Factor: 0.994
Total Harmonic Distortion (THDi): 9.472
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

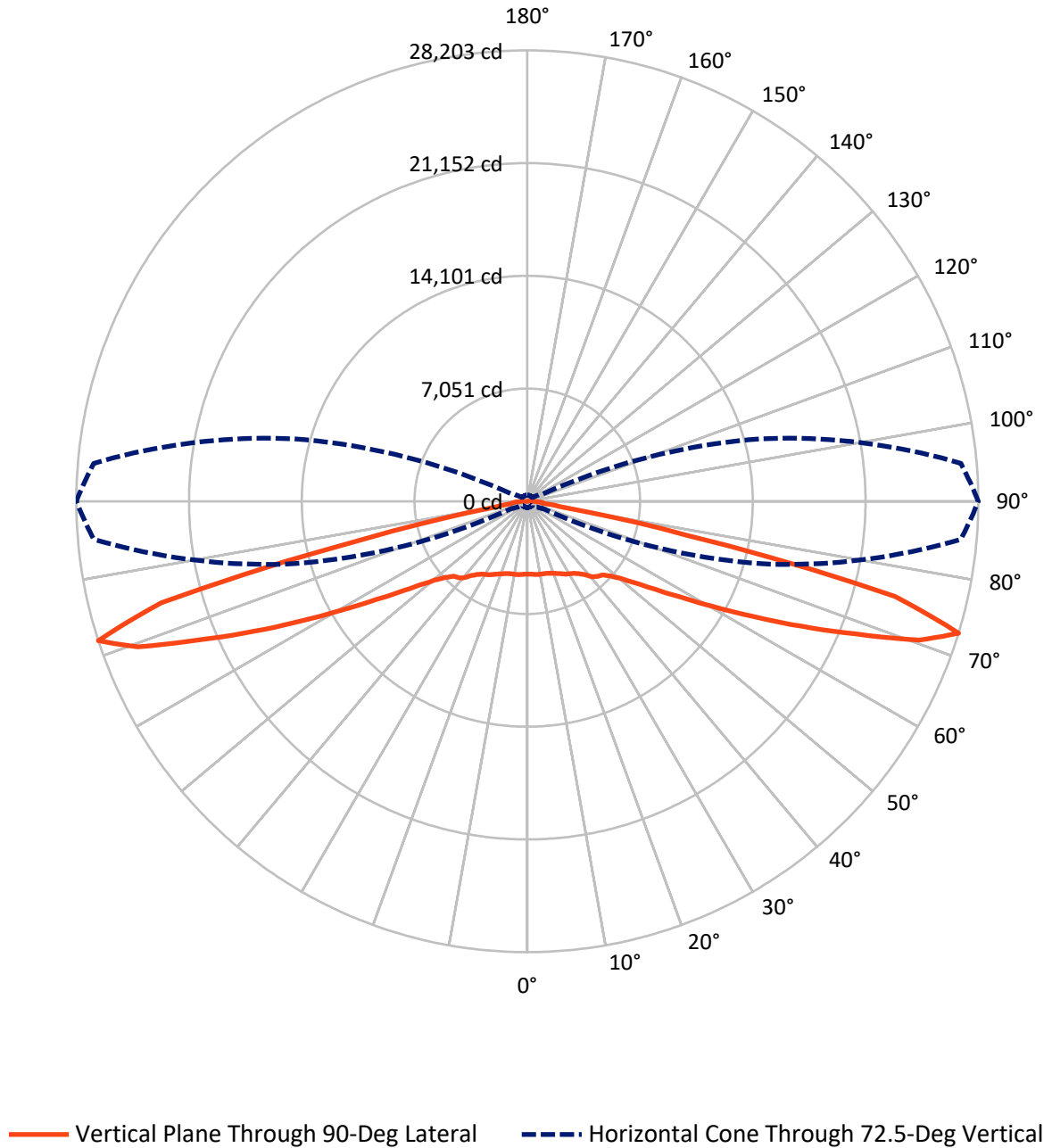
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 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	12197.5	0.0	12197.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12197.5	0.0	12197.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	24395.0	0.0	24395.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	442.0	1.8
10°-20°	1351.5	5.5
20°-30°	2253.4	9.2
30°-40°	3099.2	12.7
40°-50°	3784.9	15.5
50°-60°	4377.7	17.9
60°-70°	5219.6	21.4
70°-80°	3643.0	14.9
80°-90°	223.8	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°	24395.0	100.0
0°-180°	24395.0	100.0

Coefficient of Utilization



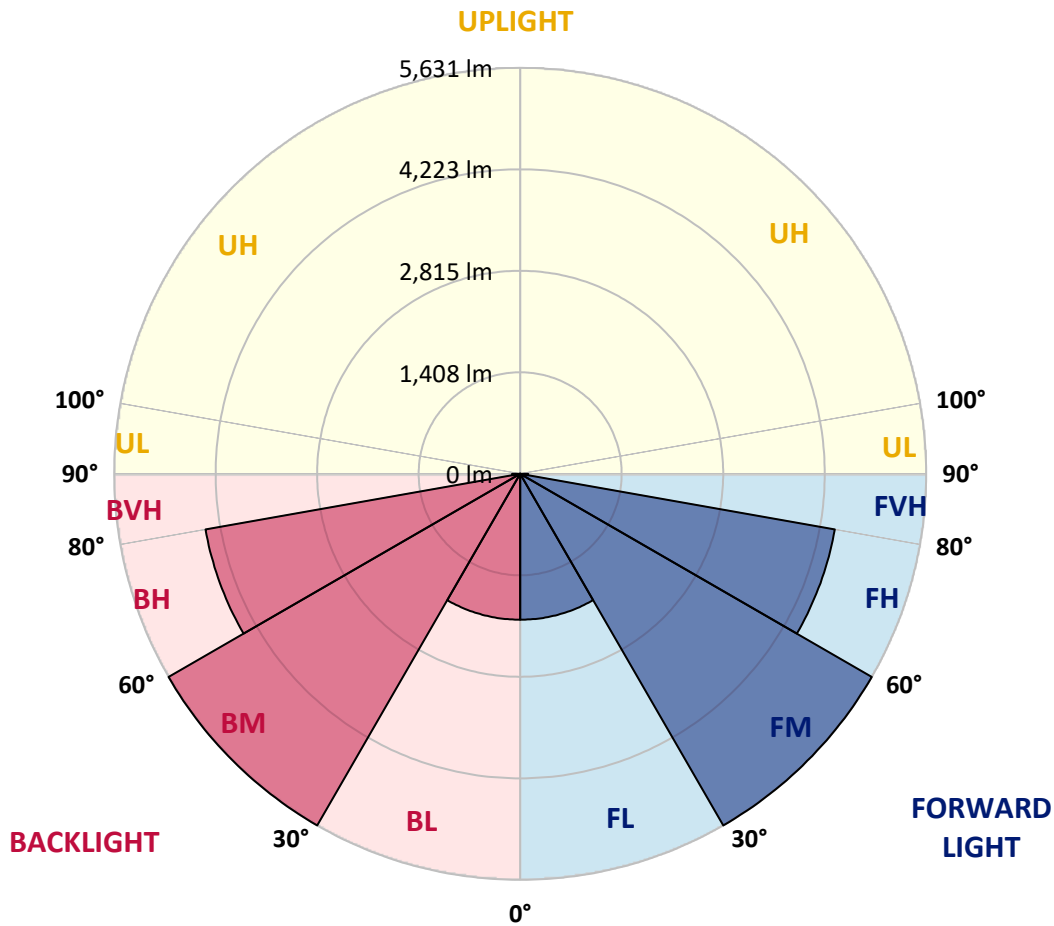
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2023.4	8.3			
FM (30°-60°)	5630.9	23.1			
FH (60°-80°)	4431.3	18.2			G2/5000
FVH (80°-90°)	111.9	0.5			G2/225
BL (0°-30°)	2023.4	8.3	B3/2500		
BM (30°-60°)	5630.9	23.1	B4/8500		
BH (60°-80°)	4431.3	18.2	B4/5000		G4/5000
BVH (80°-90°)	111.9	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°	4558.5	4558.5	4558.5	4558.5	4558.5	4558.5	4558.5	4558.5	4558.5	4558.5	4558.5
2.5°	4562.4	4567.5	4567.5	4563.6	4572.7	4564.9	4564.9	4561.1	4564.9	4561.1	4561.1
5°	4585.7	4592.2	4594.8	4593.5	4605.1	4598.7	4598.7	4593.5	4594.8	4590.9	4590.9
7.5°	4629.8	4638.8	4644.0	4650.5	4667.4	4659.6	4654.4	4638.8	4632.4	4622.0	4622.0
10°	4644.0	4654.4	4671.3	4705.0	4743.9	4745.2	4729.6	4690.7	4660.9	4637.5	4633.7
12.5°	4600.0	4614.2	4649.2	4717.9	4804.8	4839.8	4815.2	4750.3	4692.0	4650.5	4644.0
15°	4544.2	4559.8	4612.9	4716.6	4845.0	4926.7	4924.1	4838.5	4745.2	4680.3	4670.0
17.5°	4457.3	4472.9	4549.4	4694.6	4876.1	5010.9	5047.2	4959.1	4828.1	4741.3	4727.0
20°	4300.5	4314.7	4421.0	4624.6	4886.5	5100.4	5195.0	5117.3	4953.9	4835.9	4813.9
22.5°	4096.9	4119.0	4243.4	4504.0	4861.8	5193.7	5363.6	5310.4	5100.4	4937.0	4907.2
25°	3879.1	3902.4	4047.6	4356.2	4798.3	5261.2	5563.2	5529.5	5266.3	5062.8	5021.3
27.5°	3691.1	3715.7	3873.9	4209.7	4699.8	5287.1	5760.3	5777.2	5467.3	5201.5	5157.4
30°	3543.3	3566.6	3735.2	4091.7	4572.7	5261.2	5932.7	6049.4	5672.1	5322.1	5258.6
32.5°	3381.2	3411.1	3588.7	3947.8	4422.3	5198.9	6083.1	6343.7	5909.4	5451.7	5371.4
35°	3176.4	3203.6	3390.3	3750.7	4225.3	5099.1	6208.9	6670.4	6249.1	5648.8	5559.4
37.5°	2927.5	2953.4	3138.8	3504.4	4029.5	4959.1	6304.8	7038.7	6653.6	5932.7	5813.5
40°	2677.3	2701.9	2875.6	3229.6	3794.8	4780.2	6338.5	7399.1	7117.7	6323.0	6195.9
42.5°	2447.8	2469.8	2629.3	2958.6	3531.6	4552.0	6294.5	7712.8	7533.9	6595.3	6431.9
45°	2236.4	2255.9	2397.2	2704.5	3258.1	4274.5	6162.2	8049.9	8029.2	6789.7	6569.3
47.5°	1995.3	2014.7	2161.3	2458.1	2984.5	3949.1	5937.9	8381.8	8717.6	7230.5	6976.4
50°	1701.0	1717.9	1868.2	2174.2	2700.6	3602.9	5626.8	8642.4	9586.3	7898.2	7579.3
52.5°	1352.2	1370.4	1516.9	1822.9	2363.5	3230.9	5217.1	8812.3	10589.7	8873.2	8480.3
55°	1006.1	1019.0	1146.1	1421.0	1946.0	2806.9	4703.7	8860.2	11728.1	10206.0	9714.6
57.5°	729.9	737.7	819.4	1024.2	1475.4	2276.6	4080.1	8735.8	13082.9	11914.8	11296.3
60°	591.2	593.8	618.4	709.2	1025.5	1677.7	3326.8	8307.9	14553.1	14117.5	13338.3
62.5°	536.7	536.7	543.2	567.9	693.6	1107.2	2415.4	7421.1	16129.6	16901.1	15857.4
65°	499.1	499.1	501.7	513.4	547.1	705.3	1524.7	5976.8	17458.6	20161.7	18841.9
67.5°	465.4	466.7	465.4	469.3	488.8	521.2	884.2	4128.0	18174.2	23540.4	22115.5
70°	430.4	433.0	426.5	426.5	442.1	443.4	553.6	2263.7	17580.4	26371.9	25997.2
72.5°	388.9	392.8	382.5	379.9	391.5	386.4	416.2	1086.5	15093.8	27217.2	28202.6
75°	352.6	357.8	334.5	328.0	328.0	324.1	338.4	557.5	9796.3	22202.4	23747.8
77.5°	320.2	330.6	293.0	272.3	267.1	255.4	276.2	341.0	4284.9	10423.8	10207.3
80°	264.5	278.7	241.1	216.5	207.4	194.5	217.8	238.6	1274.5	2420.5	2318.1
82.5°	197.1	203.5	171.1	154.3	146.5	137.4	163.4	166.0	414.9	857.0	968.5
85°	125.8	128.4	105.0	90.8	86.9	83.0	103.7	90.8	158.2	630.1	915.3
87.5°	44.1	50.6	40.2	36.3	38.9	32.4	48.0	27.2	44.1	444.7	551.0
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)