

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: P884505

Luminaire Tested: **NAV-SB5B-835-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P884505
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-835-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23850 lumens
Efficiency: N/A
Efficacy: 130.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

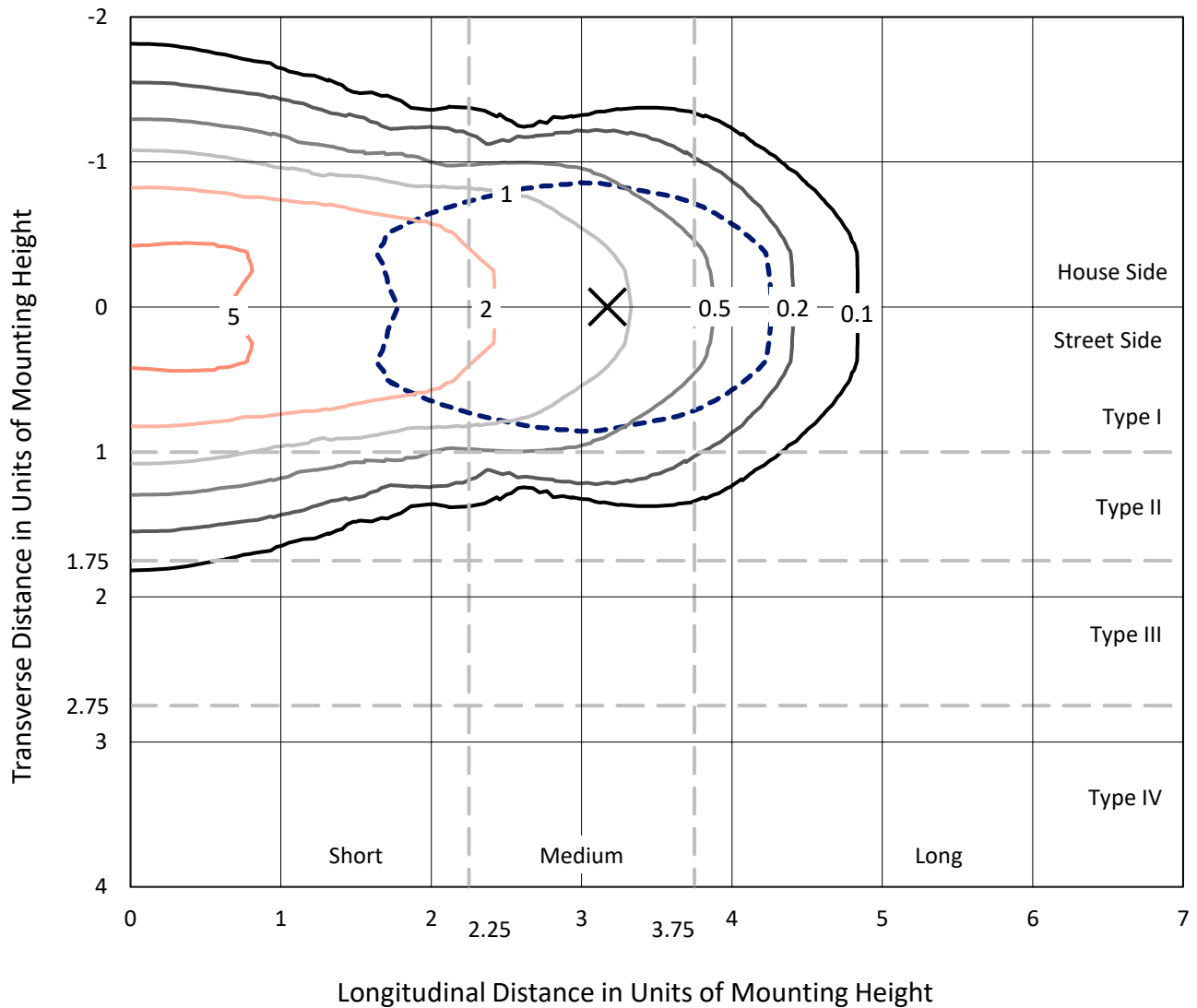
Input Watts (W): 182.7
Input Voltage (V): 120.0
Input Current (Ain): 1.547
Voltage Rise (V): NR
Power Factor: 0.992
Total Harmonic Distortion (THDi): 11.125
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

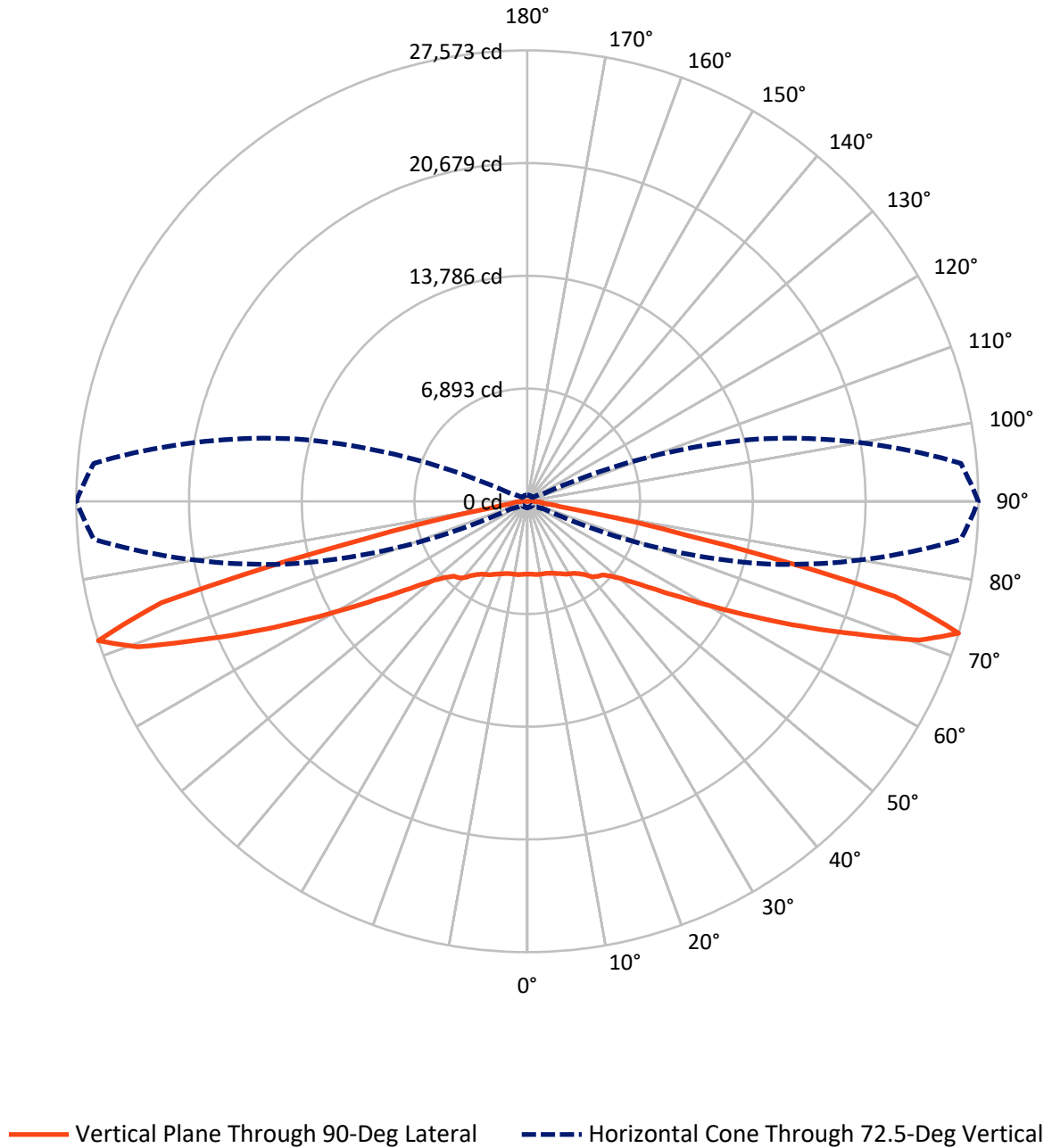
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 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	11925.0	0.0	11925.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11925.0	0.0	11925.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	23850.0	0.0	23850.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	432.1	1.8
10°-20°	1321.3	5.5
20°-30°	2203.1	9.2
30°-40°	3029.9	12.7
40°-50°	3700.4	15.5
50°-60°	4279.9	17.9
60°-70°	5103.0	21.4
70°-80°	3561.6	14.9
80°-90°	218.7	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°	23850.0	100.0
0°-180°	23850.0	100.0

Coefficient of Utilization



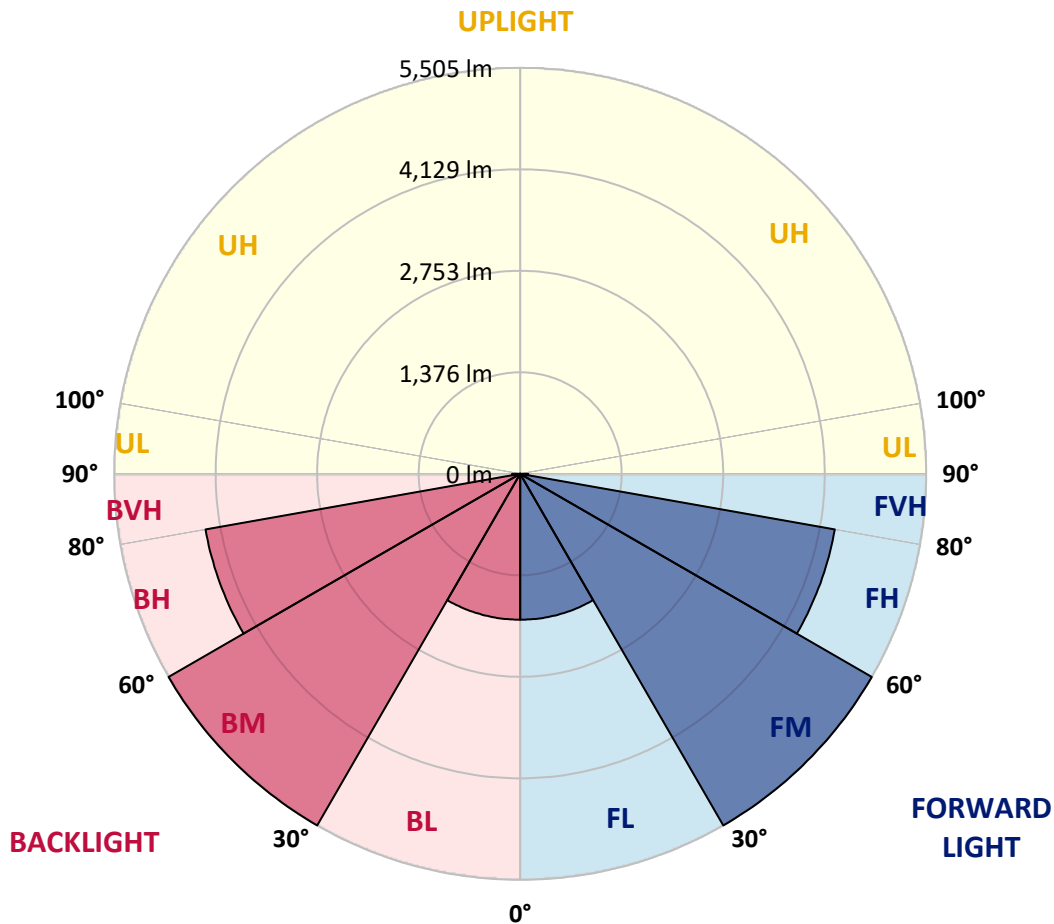
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1978.2	8.3			
FM (30°-60°)	5505.1	23.1			
FH (60°-80°)	4332.3	18.2			G2/5000
FVH (80°-90°)	109.4	0.5			G2/225
BL (0°-30°)	1978.2	8.3	B3/2500		
BM (30°-60°)	5505.1	23.1	B4/8500		
BH (60°-80°)	4332.3	18.2	B4/5000		G4/5000
BVH (80°-90°)	109.4	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°	4456.6	4456.6	4456.6	4456.6	4456.6	4456.6	4456.6	4456.6	4456.6	4456.6	4456.6
2.5°	4460.4	4465.5	4465.5	4461.7	4470.6	4463.0	4463.0	4459.2	4463.0	4459.2	4459.2
5°	4483.2	4489.6	4492.1	4490.8	4502.3	4495.9	4495.9	4490.8	4492.1	4488.3	4488.3
7.5°	4526.3	4535.2	4540.3	4546.6	4563.1	4555.5	4550.4	4535.2	4528.9	4518.7	4518.7
10°	4540.3	4550.4	4566.9	4599.9	4637.9	4639.1	4623.9	4585.9	4556.8	4533.9	4530.1
12.5°	4497.2	4511.1	4545.4	4612.5	4697.5	4731.7	4707.6	4644.2	4587.2	4546.6	4540.3
15°	4442.7	4457.9	4509.9	4611.3	4736.7	4816.6	4814.1	4730.4	4639.1	4575.8	4565.6
17.5°	4357.8	4373.0	4447.8	4589.7	4767.2	4899.0	4934.5	4848.3	4720.3	4635.3	4621.4
20°	4204.4	4218.3	4322.3	4521.3	4777.3	4986.5	5079.0	5002.9	4843.2	4727.9	4706.3
22.5°	4005.4	4026.9	4148.6	4403.4	4753.2	5077.7	5243.8	5191.8	4986.5	4826.7	4797.6
25°	3792.4	3815.3	3957.2	4258.9	4691.1	5143.6	5439.0	5406.0	5148.7	4949.7	4909.1
27.5°	3608.6	3632.7	3787.4	4115.7	4594.8	5169.0	5631.6	5648.1	5345.2	5085.3	5042.2
30°	3464.2	3487.0	3651.7	4000.3	4470.6	5143.6	5800.2	5914.3	5545.4	5203.2	5141.1
32.5°	3305.7	3334.9	3508.5	3859.6	4323.5	5082.8	5947.2	6202.0	5777.4	5330.0	5251.4
35°	3105.4	3132.1	3314.6	3667.0	4130.9	4985.2	6070.2	6521.4	6109.5	5522.6	5435.2
37.5°	2862.1	2887.4	3068.7	3426.1	3939.5	4848.3	6164.0	6881.4	6504.9	5800.2	5683.6
40°	2617.4	2641.5	2811.4	3157.4	3710.1	4673.4	6196.9	7233.8	6958.7	6181.7	6057.5
42.5°	2393.1	2414.6	2570.5	2892.5	3452.7	4450.3	6153.8	7540.5	7365.6	6447.9	6288.2
45°	2186.5	2205.5	2343.7	2644.1	3185.3	4179.0	6024.6	7870.1	7849.8	6638.0	6422.6
47.5°	1950.7	1969.7	2113.0	2403.2	2917.8	3860.9	5805.3	8194.6	8522.9	7069.0	6820.6
50°	1663.0	1679.5	1826.5	2125.6	2640.3	3522.5	5501.1	8449.3	9372.1	7721.8	7410.0
52.5°	1322.0	1339.8	1483.0	1782.1	2310.7	3158.7	5100.5	8615.4	10353.2	8675.0	8290.9
55°	983.6	996.3	1120.5	1389.2	1902.6	2744.2	4598.6	8662.3	11466.0	9978.0	9497.6
57.5°	713.6	721.2	801.1	1001.3	1442.4	2225.8	3988.9	8540.6	12790.6	11648.6	11044.0
60°	578.0	580.5	604.6	693.3	1002.6	1640.2	3252.5	8122.3	14228.0	13802.1	13040.3
62.5°	524.8	524.8	531.1	555.2	678.1	1082.5	2361.4	7255.3	15769.3	16523.5	15503.1
65°	488.0	488.0	490.5	501.9	534.9	689.5	1490.6	5843.3	17068.5	19711.3	18421.0
67.5°	455.0	456.3	455.0	458.8	477.9	509.5	864.5	4035.8	17768.2	23014.5	21621.5
70°	420.8	423.4	417.0	417.0	432.2	433.5	541.2	2213.1	17187.7	25782.8	25416.4
72.5°	380.3	384.1	373.9	371.4	382.8	377.7	406.9	1062.2	14756.5	26609.2	27572.5
75°	344.8	349.8	327.0	320.7	320.7	316.9	330.8	545.0	9577.4	21706.4	23217.3
77.5°	313.1	323.2	286.5	266.2	261.1	249.7	270.0	333.4	4189.2	10190.9	9979.2
80°	258.6	272.5	235.8	211.7	202.8	190.1	212.9	233.2	1246.0	2366.5	2266.3
82.5°	192.7	199.0	167.3	150.8	143.2	134.4	159.7	162.2	405.6	837.8	946.8
85°	123.0	125.5	102.7	88.7	84.9	81.1	101.4	88.7	154.6	616.0	894.9
87.5°	43.1	49.4	39.3	35.5	38.0	31.7	46.9	26.6	43.1	434.8	538.7
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)