

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: P883395

Luminaire Tested: **NAV-SB3D-722-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883395
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-SB3D-722-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24062 lumens
Efficiency: N/A
Efficacy: 110.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

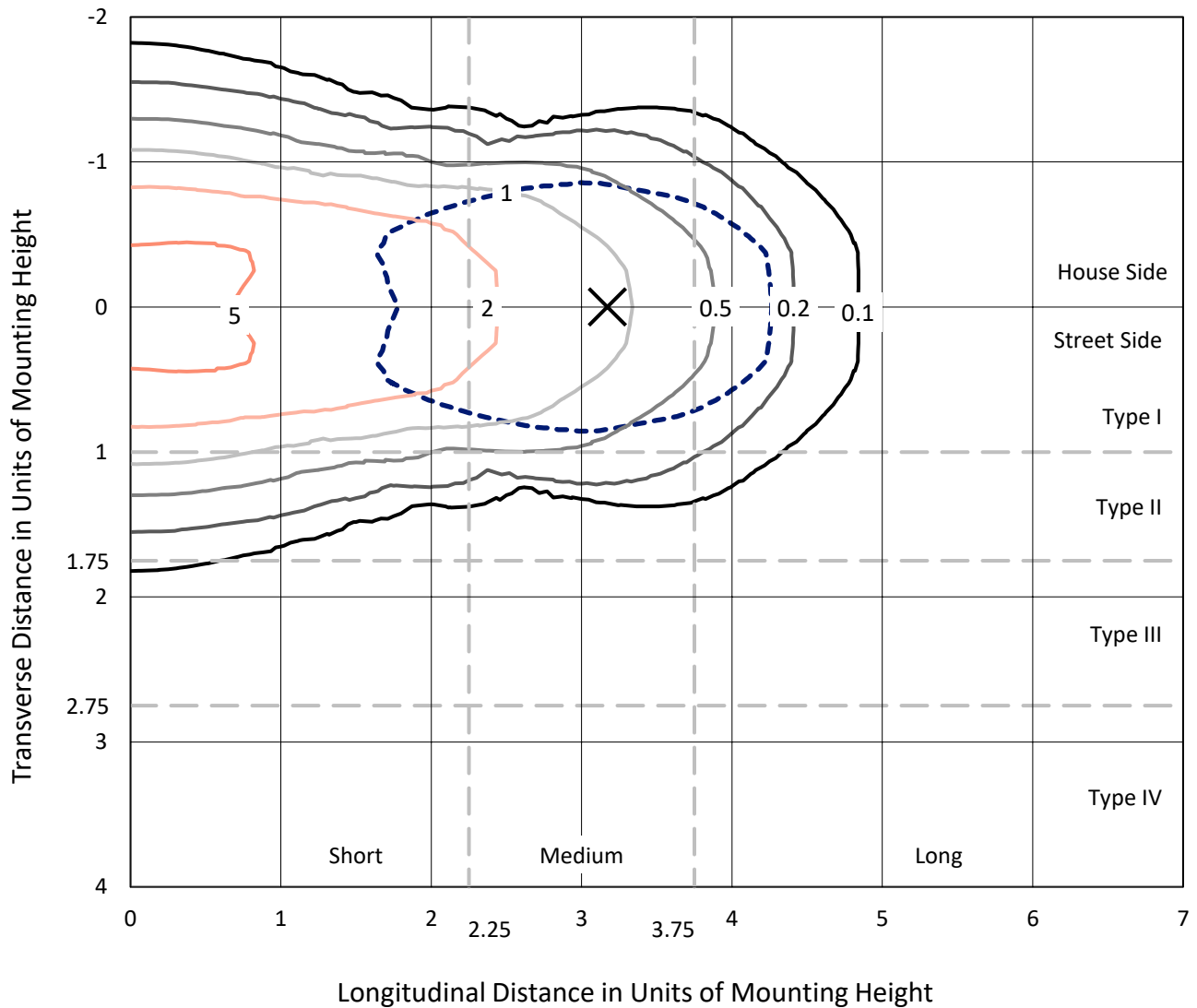
Input Watts (W): 218.1
Input Voltage (V): 120.0
Input Current (Ain): 1.84
Voltage Rise (V): NR
Power Factor: 0.998
Total Harmonic Distortion (THDi): 2.542
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

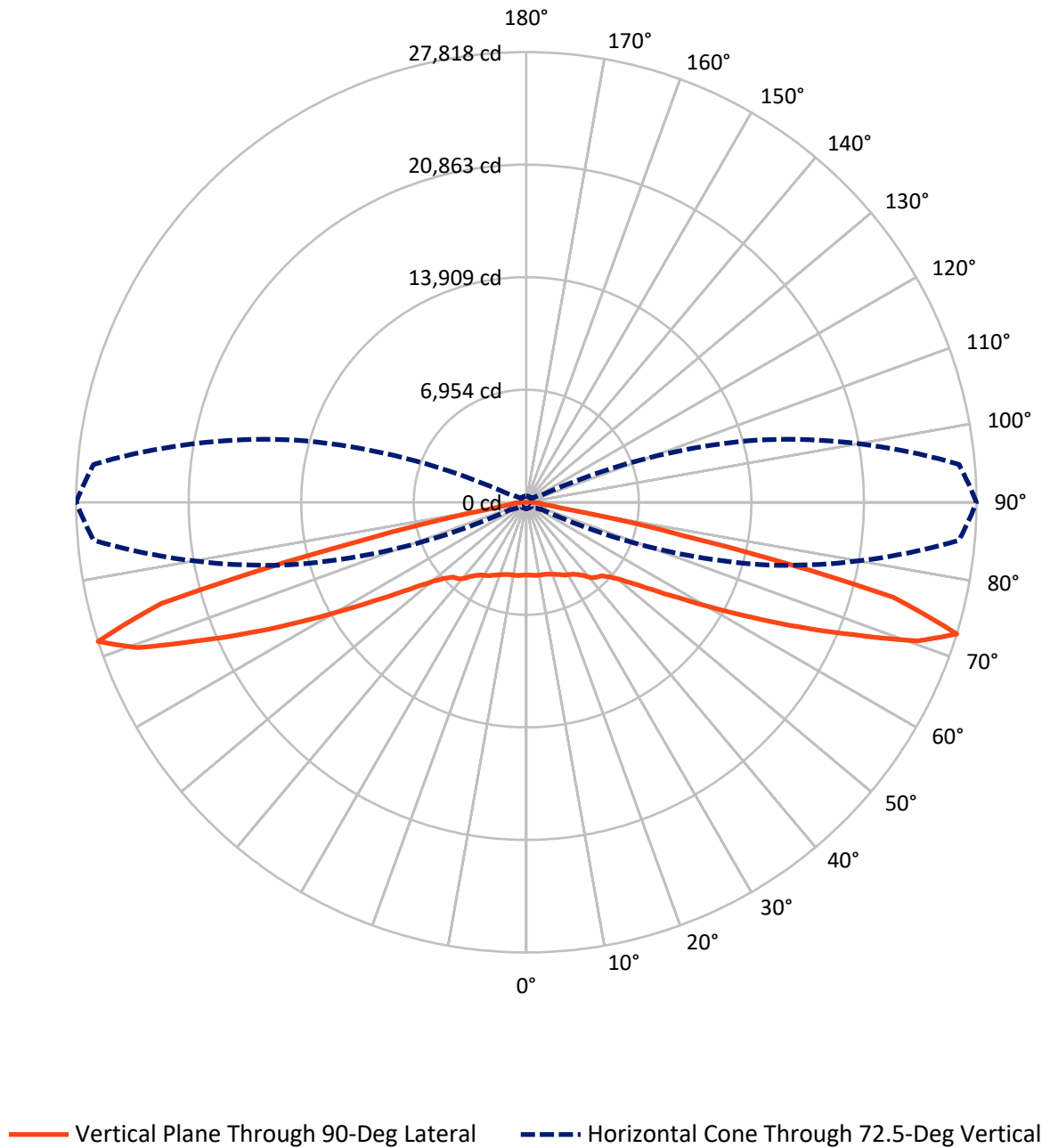
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 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	12031.0	0.0	12031.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12031.0	0.0	12031.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	24062.0	0.0	24062.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	436.0	1.8
10°-20°	1333.0	5.5
20°-30°	2222.7	9.2
30°-40°	3056.9	12.7
40°-50°	3733.3	15.5
50°-60°	4317.9	17.9
60°-70°	5148.4	21.4
70°-80°	3593.2	14.9
80°-90°	220.7	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°	24062.0	100.0
0°-180°	24062.0	100.0

Coefficient of Utilization



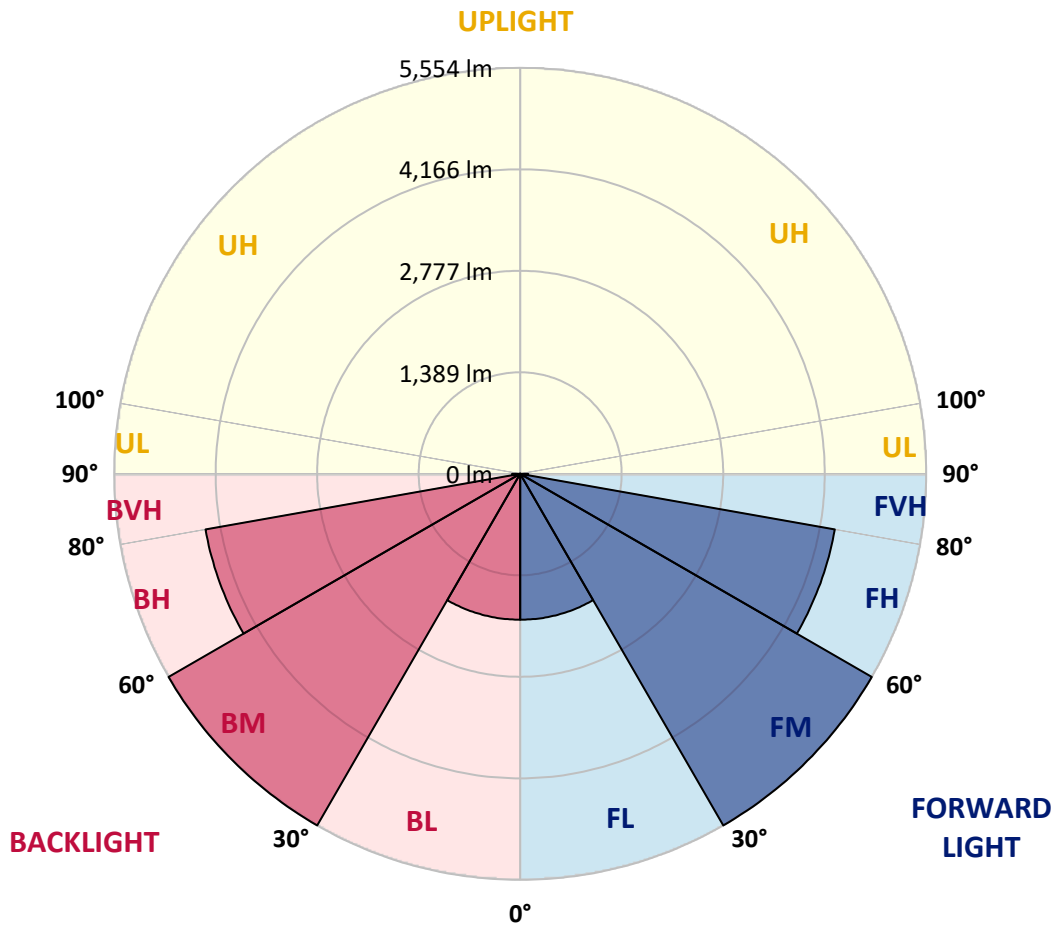
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1995.8	8.3			
FM (30°-60°)	5554.0	23.1			
FH (60°-80°)	4370.8	18.2			G2/5000
FVH (80°-90°)	110.4	0.5			G2/225
BL (0°-30°)	1995.8	8.3	B3/2500		
BM (30°-60°)	5554.0	23.1	B4/8500		
BH (60°-80°)	4370.8	18.2	B4/5000		G4/5000
BVH (80°-90°)	110.4	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°	4496.2	4496.2	4496.2	4496.2	4496.2	4496.2	4496.2	4496.2	4496.2	4496.2	4496.2
2.5°	4500.1	4505.2	4505.2	4501.4	4510.3	4502.6	4502.6	4498.8	4502.6	4498.8	4498.8
5°	4523.1	4529.5	4532.0	4530.8	4542.3	4535.9	4535.9	4530.8	4532.0	4528.2	4528.2
7.5°	4566.6	4575.5	4580.6	4587.0	4603.7	4596.0	4590.9	4575.5	4569.1	4558.9	4558.9
10°	4580.6	4590.9	4607.5	4640.7	4679.1	4680.4	4665.0	4626.7	4597.3	4574.2	4570.4
12.5°	4537.2	4551.2	4585.8	4653.5	4739.2	4773.7	4749.4	4685.5	4628.0	4587.0	4580.6
15°	4482.2	4497.5	4549.9	4652.3	4778.9	4859.4	4856.9	4772.5	4680.4	4616.4	4606.2
17.5°	4396.5	4411.8	4487.3	4630.5	4809.5	4942.5	4978.3	4891.4	4762.2	4676.5	4662.5
20°	4241.8	4255.8	4360.7	4561.5	4819.8	5030.8	5124.1	5047.4	4886.3	4769.9	4748.2
22.5°	4041.0	4062.7	4185.5	4442.5	4795.5	5122.8	5290.4	5237.9	5030.8	4869.6	4840.2
25°	3826.2	3849.2	3992.4	4296.7	4732.8	5189.3	5487.3	5454.1	5194.5	4993.7	4952.8
27.5°	3640.7	3665.0	3821.0	4152.2	4635.6	5214.9	5681.7	5698.3	5392.7	5130.5	5087.0
30°	3494.9	3518.0	3684.2	4035.9	4510.3	5189.3	5851.8	5966.9	5594.7	5249.4	5186.8
32.5°	3335.1	3364.5	3539.7	3893.9	4362.0	5128.0	6000.1	6257.1	5828.7	5377.3	5298.0
35°	3133.0	3159.9	3344.0	3699.6	4167.6	5029.5	6124.1	6579.4	6163.8	5571.7	5483.5
37.5°	2887.5	2913.1	3096.0	3456.6	3974.5	4891.4	6218.8	6942.6	6562.8	5851.8	5734.1
40°	2640.7	2665.0	2836.4	3185.5	3743.0	4714.9	6252.0	7298.1	7020.6	6236.7	6111.4
42.5°	2414.4	2436.1	2593.4	2918.2	3483.4	4489.8	6208.5	7607.5	7431.1	6505.2	6344.1
45°	2205.9	2225.1	2364.5	2667.6	3213.6	4216.2	6078.1	7940.0	7919.6	6697.0	6479.6
47.5°	1968.1	1987.2	2131.7	2424.6	2943.8	3895.2	5856.9	8267.4	8598.6	7131.8	6881.2
50°	1677.8	1694.4	1842.7	2144.5	2663.7	3553.8	5550.0	8524.4	9455.4	7790.4	7475.8
52.5°	1333.8	1351.7	1496.2	1798.0	2331.2	3186.8	5145.9	8692.0	10445.2	8752.1	8364.6
55°	992.3	1005.1	1130.5	1401.6	1919.5	2768.6	4639.5	8739.3	11568.0	10066.7	9582.0
57.5°	720.0	727.6	808.2	1010.2	1455.3	2245.6	4024.4	8616.5	12904.3	11752.1	11142.1
60°	583.1	585.7	610.0	699.5	1011.5	1654.8	3281.4	8194.5	14354.5	13924.8	13156.2
62.5°	529.4	529.4	535.8	560.1	684.2	1092.1	2382.4	7319.8	15909.5	16670.4	15640.9
65°	492.3	492.3	494.9	506.4	539.7	695.7	1503.9	5895.2	17220.2	19886.5	18584.7
67.5°	459.1	460.4	459.1	462.9	482.1	514.1	872.1	4071.7	17926.1	23219.1	21813.7
70°	424.6	427.1	420.7	420.7	436.1	437.3	546.0	2232.8	17340.4	26011.9	25642.4
72.5°	383.6	387.5	377.2	374.7	386.2	381.1	410.5	1071.6	14887.7	26845.7	27817.6
75°	347.8	352.9	329.9	323.5	323.5	319.7	333.8	549.9	9662.6	21899.3	23423.7
77.5°	315.9	326.1	289.0	268.5	263.4	251.9	272.4	336.3	4226.4	10281.5	10067.9
80°	260.9	274.9	237.9	213.6	204.6	191.8	214.8	235.3	1257.1	2387.5	2286.5
82.5°	194.4	200.8	168.8	152.2	144.5	135.6	161.1	163.7	409.2	845.3	955.3
85°	124.0	126.6	103.6	89.5	85.7	81.8	102.3	89.5	156.0	621.5	902.8
87.5°	43.5	49.9	39.6	35.8	38.4	32.0	47.3	26.9	43.5	438.6	543.5
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)