

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: P883595

Luminaire Tested: **NAV-SB4A-735-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883595
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-SB4A-735-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17984 lumens
Efficiency: N/A
Efficacy: 157.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

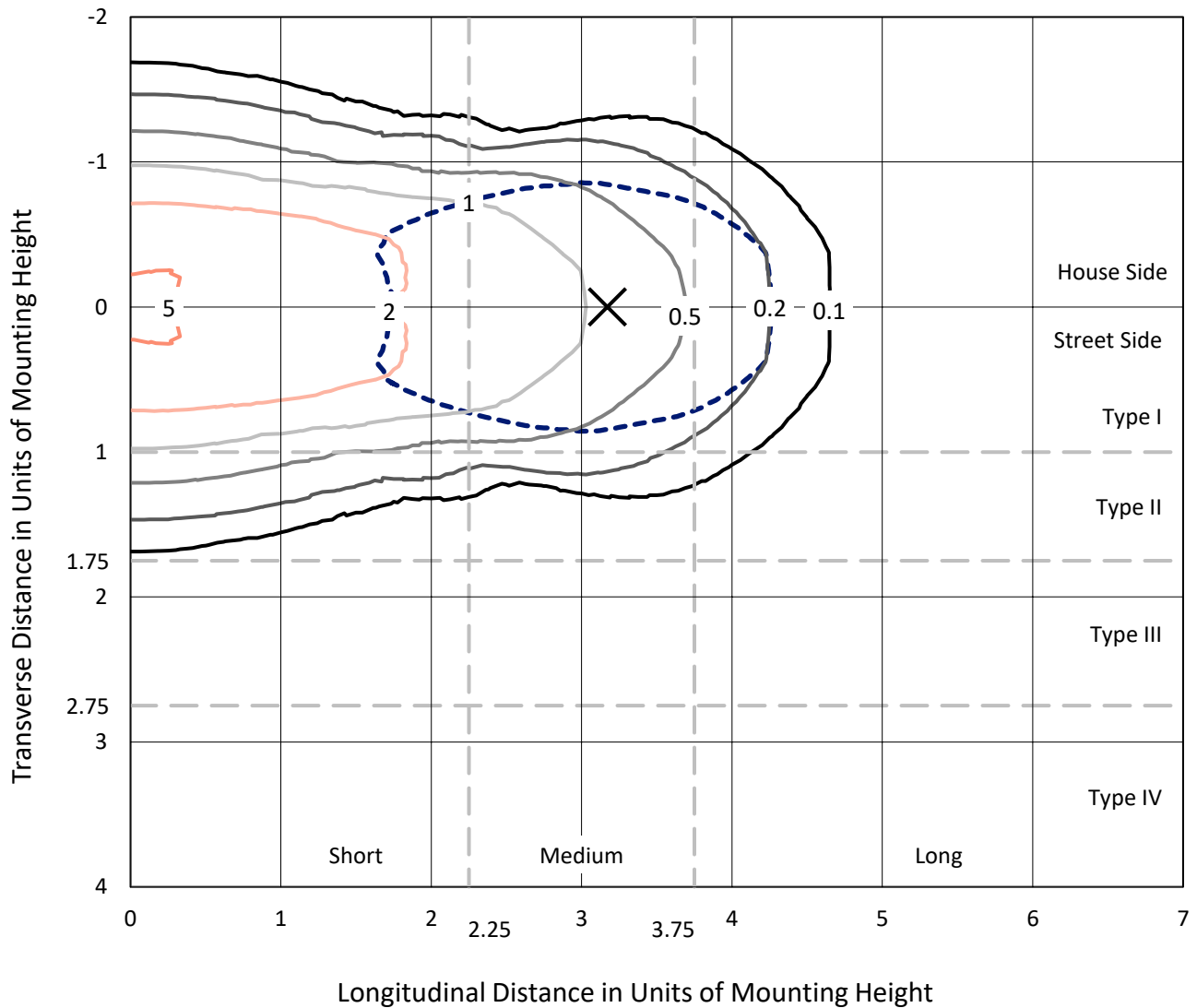
Input Watts (W): 114
Input Voltage (V): 120.0
Input Current (Ain): 0.952
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 8.206
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

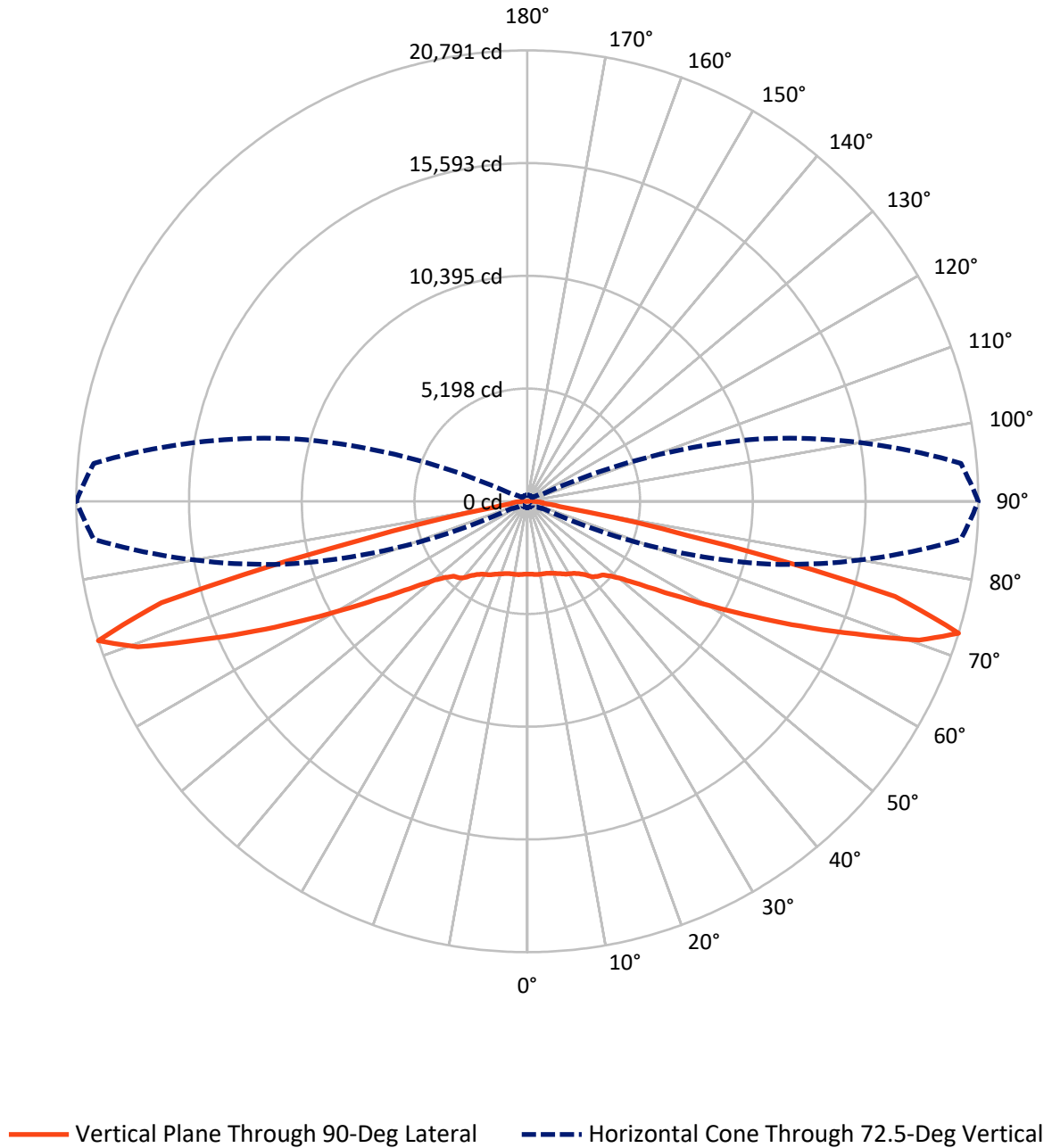
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 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	8992.0	0.0	8992.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8992.0	0.0	8992.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	17984.0	0.0	17984.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	325.8	1.8
10°-20°	996.3	5.5
20°-30°	1661.2	9.2
30°-40°	2284.7	12.7
40°-50°	2790.2	15.5
50°-60°	3227.2	17.9
60°-70°	3847.9	21.4
70°-80°	2685.6	14.9
80°-90°	165.0	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°	17984.0	100.0
0°-180°	17984.0	100.0

Coefficient of Utilization



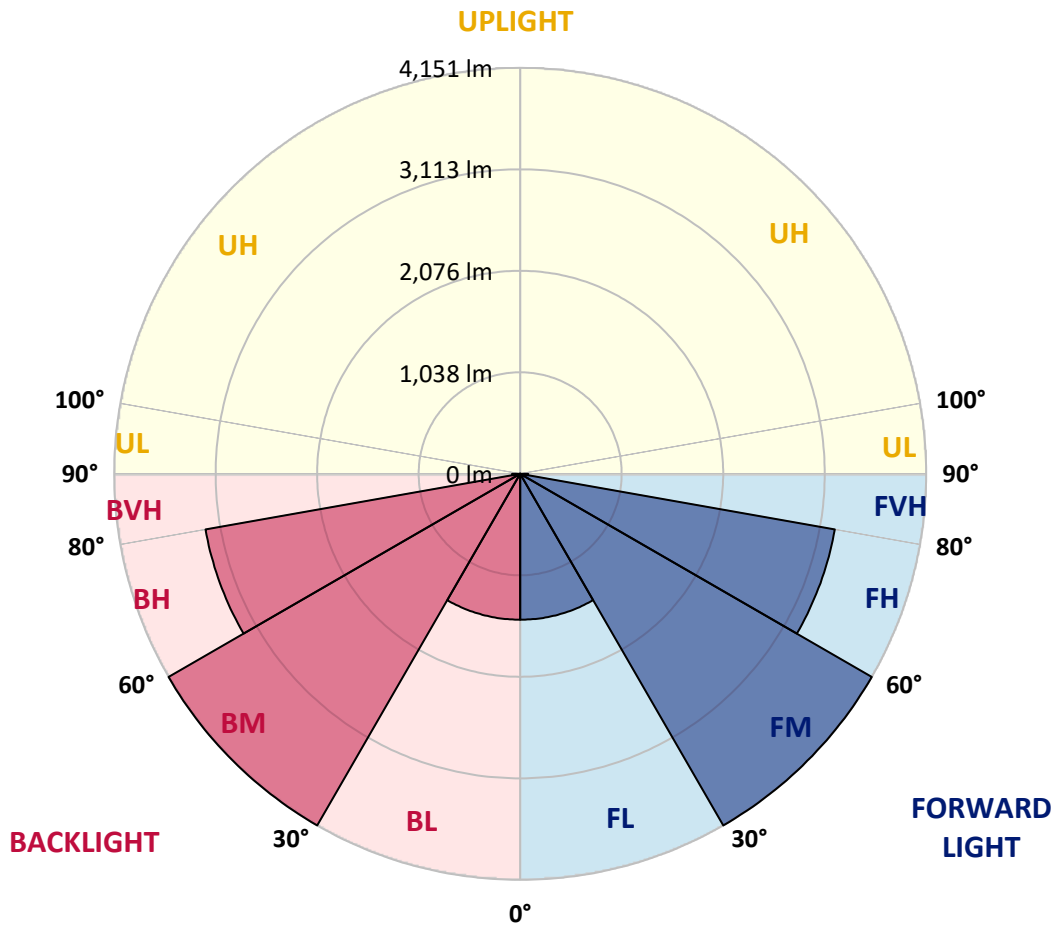
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1491.7	8.3			
FM (30°-60°)	4151.1	23.1			
FH (60°-80°)	3266.8	18.2			G2/5000
FVH (80°-90°)	82.5	0.5			G1/100
BL (0°-30°)	1491.7	8.3	B3/2500		
BM (30°-60°)	4151.1	23.1	B3/5000		
BH (60°-80°)	3266.8	18.2	B4/5000		G4/5000
BVH (80°-90°)	82.5	0.5			G1/100
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°	3360.5	3360.5	3360.5	3360.5	3360.5	3360.5	3360.5	3360.5	3360.5	3360.5	3360.5
2.5°	3363.4	3367.2	3367.2	3364.3	3371.0	3365.3	3365.3	3362.4	3365.3	3362.4	3362.4
5°	3380.6	3385.4	3387.3	3386.3	3394.9	3390.1	3390.1	3386.3	3387.3	3384.4	3384.4
7.5°	3413.1	3419.8	3423.6	3428.4	3440.8	3435.1	3431.2	3419.8	3415.0	3407.3	3407.3
10°	3423.6	3431.2	3443.7	3468.5	3497.2	3498.1	3486.7	3458.0	3436.0	3418.8	3415.9
12.5°	3391.1	3401.6	3427.4	3478.1	3542.1	3567.9	3549.7	3502.0	3458.9	3428.4	3423.6
15°	3350.0	3361.5	3400.6	3477.1	3571.7	3631.9	3630.0	3566.9	3498.1	3450.3	3442.7
17.5°	3285.9	3297.4	3353.8	3460.9	3594.7	3694.1	3720.8	3655.8	3559.3	3495.3	3484.8
20°	3170.3	3180.8	3259.2	3409.2	3602.3	3760.0	3829.8	3772.4	3652.0	3565.0	3548.8
22.5°	3020.2	3036.5	3128.2	3320.4	3584.2	3828.8	3954.0	3914.8	3760.0	3639.6	3617.6
25°	2859.7	2876.9	2983.9	3211.4	3537.3	3878.5	4101.2	4076.4	3882.4	3732.3	3701.7
27.5°	2721.1	2739.2	2855.9	3103.4	3464.7	3897.6	4246.5	4258.9	4030.5	3834.6	3802.1
30°	2612.1	2629.3	2753.6	3016.4	3371.0	3878.5	4373.6	4459.6	4181.5	3923.5	3876.6
32.5°	2492.7	2514.6	2645.6	2910.3	3260.1	3832.7	4484.5	4676.6	4356.4	4019.0	3959.8
35°	2341.6	2361.7	2499.3	2765.1	3114.9	3759.1	4577.2	4917.5	4606.8	4164.3	4098.4
37.5°	2158.1	2177.3	2313.9	2583.5	2970.5	3655.8	4647.9	5188.9	4905.0	4373.6	4285.7
40°	1973.7	1991.8	2119.9	2380.8	2797.5	3523.9	4672.8	5454.6	5247.2	4661.3	4567.6
42.5°	1804.5	1820.7	1938.3	2181.1	2603.5	3355.7	4640.3	5685.9	5554.0	4862.0	4741.6
45°	1648.7	1663.0	1767.2	1993.7	2401.9	3151.2	4542.8	5934.4	5919.1	5005.4	4842.9
47.5°	1470.9	1485.3	1593.3	1812.1	2200.2	2911.3	4377.4	6179.1	6426.6	5330.3	5143.0
50°	1254.0	1266.4	1377.3	1602.8	1990.9	2656.1	4148.1	6371.2	7067.0	5822.6	5587.5
52.5°	996.9	1010.3	1118.3	1343.8	1742.4	2381.8	3846.0	6496.4	7806.8	6541.3	6251.7
55°	741.7	751.2	844.9	1047.5	1434.6	2069.3	3467.5	6531.8	8645.9	7523.9	7161.6
57.5°	538.1	543.8	604.0	755.1	1087.7	1678.3	3007.8	6440.0	9644.7	8783.6	8327.7
60°	435.8	437.7	455.9	522.8	756.0	1236.8	2452.5	6124.6	10728.6	10407.4	9833.0
62.5°	395.7	395.7	400.5	418.6	511.3	816.2	1780.6	5470.8	11890.8	12459.5	11690.1
65°	368.0	368.0	369.9	378.5	403.3	519.9	1124.0	4406.1	12870.4	14863.2	13890.3
67.5°	343.1	344.1	343.1	346.0	360.3	384.2	651.8	3043.2	13398.0	17354.0	16303.6
70°	317.3	319.2	314.4	314.4	325.9	326.9	408.1	1668.8	12960.3	19441.4	19165.2
72.5°	286.7	289.6	282.0	280.0	288.6	284.8	306.8	800.9	11127.1	20064.6	20790.9
75°	260.0	263.8	246.6	241.8	241.8	238.9	249.5	411.0	7221.8	16367.6	17506.9
77.5°	236.1	243.7	216.0	200.7	196.9	188.3	203.6	251.4	3158.8	7684.4	7524.8
80°	195.0	205.5	177.8	159.6	152.9	143.4	160.6	175.9	939.5	1784.4	1708.9
82.5°	145.3	150.1	126.2	113.7	108.0	101.3	120.4	122.3	305.8	631.8	714.0
85°	92.7	94.6	77.4	66.9	64.0	61.2	76.5	66.9	116.6	464.5	674.8
87.5°	32.5	37.3	29.6	26.8	28.7	23.9	35.4	20.1	32.5	327.8	406.2
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)