

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: P882715

Luminaire Tested: **NAV-SB2D-722-U-T1**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P882715  
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-SB2D-722-U-T1  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

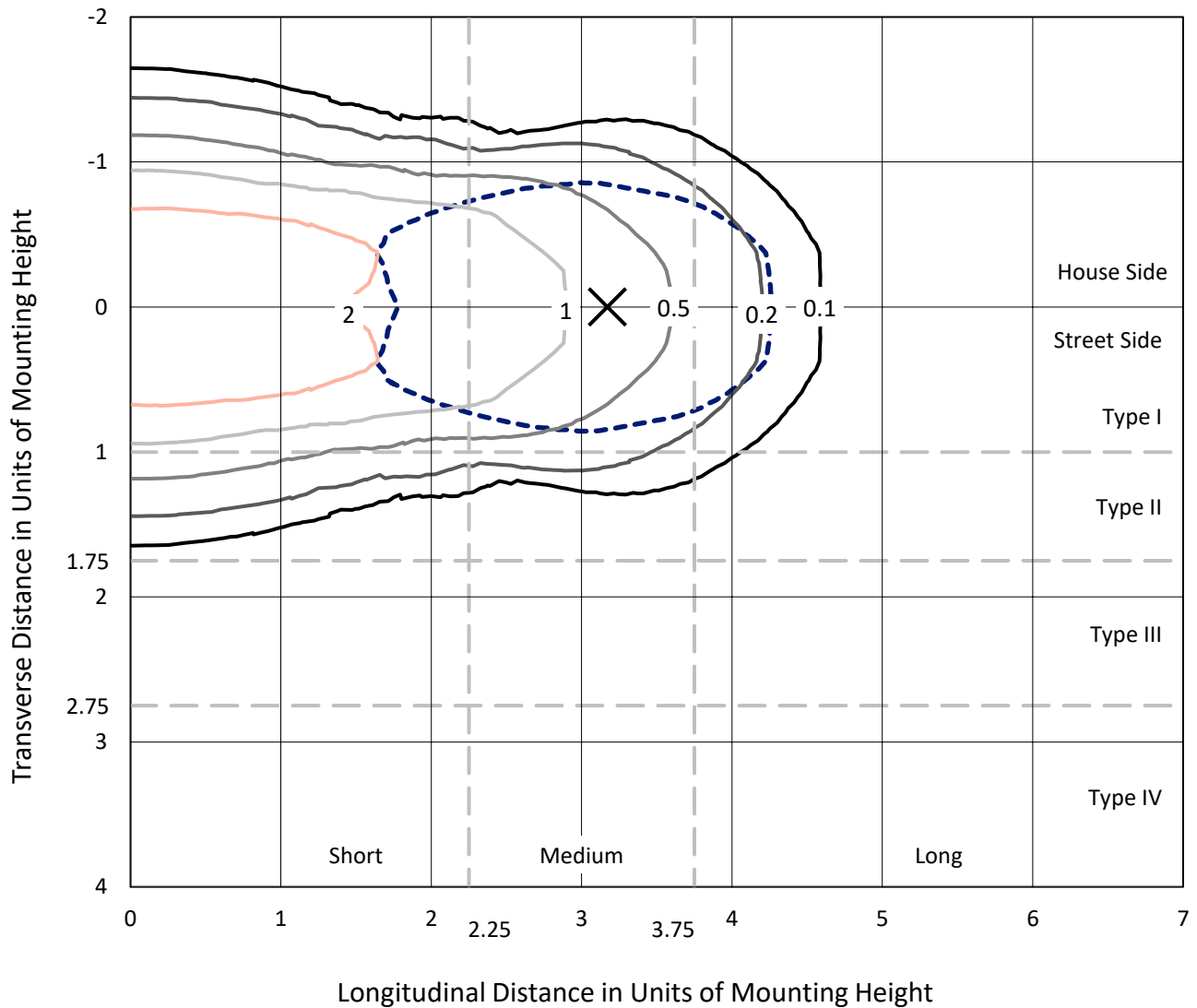
Lumens per Lamp: N/A  
Luminaire Lumens: 16349 lumens  
Efficiency: N/A  
Efficacy: 110.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 147.6  
Input Voltage (V): 120.0  
Input Current (Ain): 1.234  
Voltage Rise (V): NR  
Power Factor: 0.999  
Total Harmonic Distortion (THDi): 3.108  
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

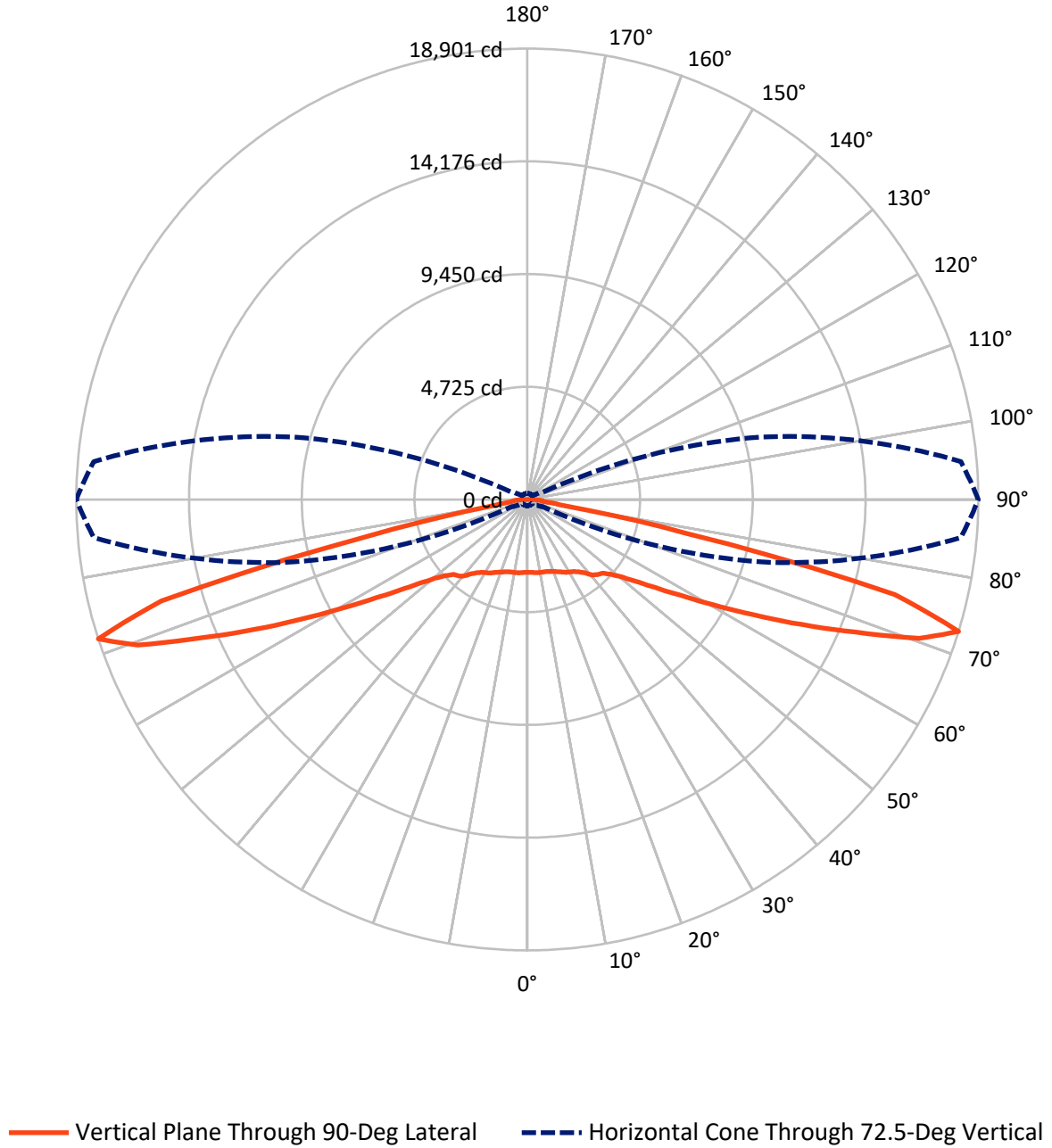
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8174.5	0.0	8174.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	8174.5	0.0	8174.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	16349.0	0.0	16349.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	296.2	1.8
10°-20°	905.7	5.5
20°-30°	1510.2	9.2
30°-40°	2077.0	12.7
40°-50°	2536.6	15.5
50°-60°	2933.8	17.9
60°-70°	3498.1	21.4
70°-80°	2441.4	14.9
80°-90°	149.9	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°	16349.0	100.0
0°-180°	16349.0	100.0

**Coefficient of Utilization**



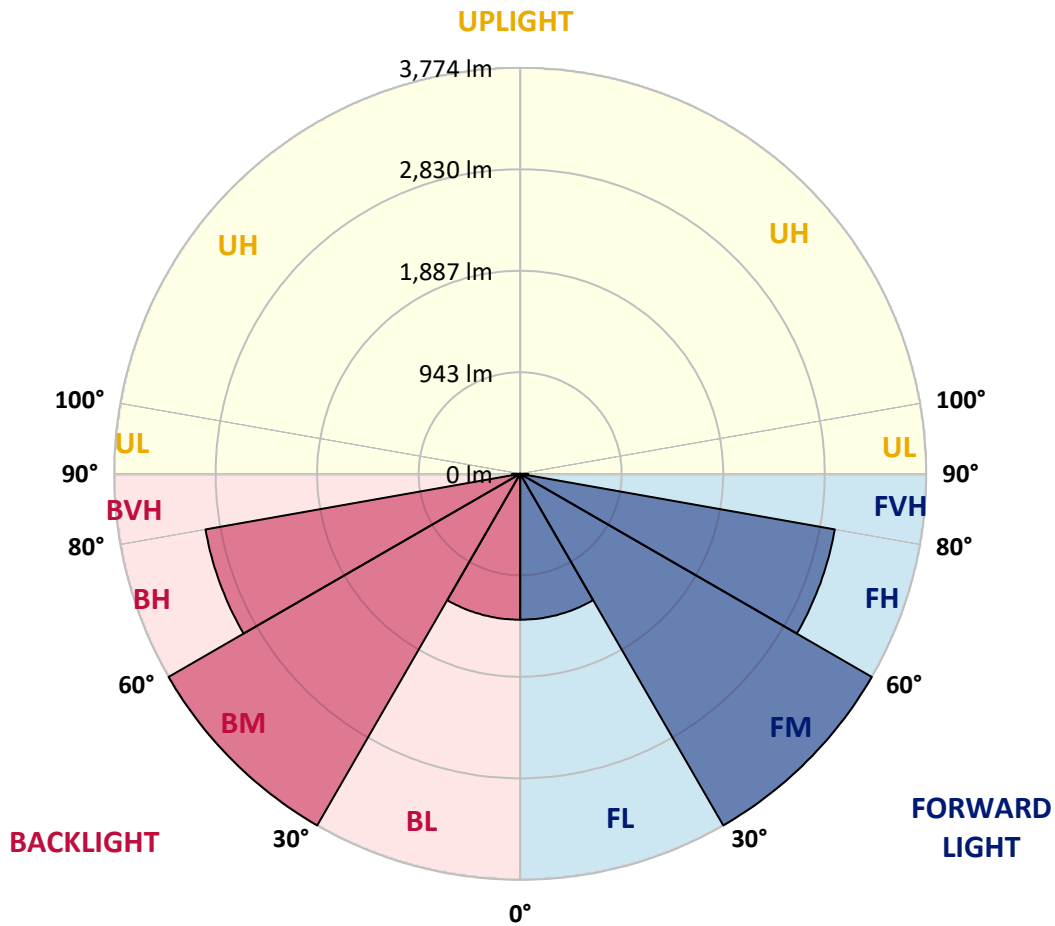
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1356.1	8.3			
FM	(30°-60°)	3773.7	23.1			
FH	(60°-80°)	2969.8	18.2			G2/5000
FVH	(80°-90°)	75.0	0.5			G1/100
BL	(0°-30°)	1356.1	8.3	B3/2500		
BM	(30°-60°)	3773.7	23.1	B3/5000		
BH	(60°-80°)	2969.8	18.2	B4/5000		G4/5000
BVH	(80°-90°)	75.0	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°	3055.0	3055.0	3055.0	3055.0	3055.0	3055.0	3055.0	3055.0	3055.0	3055.0	3055.0
2.5°	3057.6	3061.1	3061.1	3058.5	3064.5	3059.3	3059.3	3056.7	3059.3	3056.7	3056.7
5°	3073.2	3077.6	3079.3	3078.4	3086.3	3081.9	3081.9	3078.4	3079.3	3076.7	3076.7
7.5°	3102.8	3108.9	3112.3	3116.7	3128.0	3122.8	3119.3	3108.9	3104.5	3097.6	3097.6
10°	3112.3	3119.3	3130.6	3153.2	3179.2	3180.1	3169.7	3143.6	3123.6	3108.0	3105.4
12.5°	3082.8	3092.3	3115.8	3161.9	3220.1	3243.5	3227.0	3183.6	3144.5	3116.7	3112.3
15°	3045.4	3055.9	3091.5	3161.0	3247.0	3301.7	3300.0	3242.7	3180.1	3136.7	3129.7
17.5°	2987.2	2997.6	3048.9	3146.2	3267.9	3358.2	3382.6	3323.5	3235.7	3177.5	3167.9
20°	2882.1	2891.6	2962.9	3099.3	3274.8	3418.2	3481.6	3429.5	3320.0	3240.9	3226.2
22.5°	2745.7	2760.4	2843.8	3018.5	3258.3	3480.7	3594.6	3558.9	3418.2	3308.7	3288.7
25°	2599.7	2615.3	2712.6	2919.4	3215.7	3525.9	3728.4	3705.8	3529.4	3393.0	3365.2
27.5°	2473.7	2490.2	2596.2	2821.3	3149.7	3543.3	3860.4	3871.7	3664.1	3485.9	3456.4
30°	2374.6	2390.3	2503.2	2742.2	3064.5	3525.9	3976.0	4054.2	3801.4	3566.8	3524.2
32.5°	2266.0	2286.0	2405.1	2645.7	2963.8	3484.2	4076.8	4251.4	3960.4	3653.6	3599.8
35°	2128.8	2147.0	2272.1	2513.7	2831.7	3417.3	4161.1	4470.4	4188.0	3785.7	3725.8
37.5°	1961.9	1979.3	2103.6	2348.6	2700.5	3323.5	4225.4	4717.2	4459.1	3976.0	3896.1
40°	1794.2	1810.7	1927.2	2164.4	2543.2	3203.6	4248.0	4958.7	4770.2	4237.5	4152.4
42.5°	1640.4	1655.2	1762.1	1982.8	2366.8	3050.6	4218.4	5169.0	5049.1	4420.0	4310.5
45°	1498.8	1511.9	1606.6	1812.5	2183.5	2864.7	4129.8	5394.9	5381.0	4550.3	4402.6
47.5°	1337.2	1350.2	1448.4	1647.4	2000.2	2646.6	3979.5	5617.3	5842.4	4845.7	4675.4
50°	1140.0	1151.3	1252.1	1457.1	1809.9	2414.6	3770.9	5792.0	6424.5	5293.2	5079.5
52.5°	906.2	918.4	1016.6	1221.6	1584.0	2165.2	3496.4	5905.8	7097.0	5946.6	5683.3
55°	674.3	682.9	768.1	952.3	1304.2	1881.1	3152.3	5937.9	7859.9	6839.8	6510.5
57.5°	489.2	494.4	549.1	686.4	988.8	1525.8	2734.4	5854.5	8767.9	7985.0	7570.6
60°	396.2	397.9	414.5	475.3	687.3	1124.3	2229.5	5567.8	9753.2	9461.2	8939.0
62.5°	359.7	359.7	364.1	380.6	464.9	742.0	1618.7	4973.5	10809.7	11326.7	10627.3
65°	334.5	334.5	336.3	344.1	366.7	472.7	1021.8	4005.5	11700.3	13512.0	12627.4
67.5°	311.9	312.8	311.9	314.5	327.6	349.3	592.6	2766.5	12180.0	15776.3	14821.4
70°	288.5	290.2	285.9	285.9	296.3	297.2	371.0	1517.1	11782.0	17673.9	17422.8
72.5°	260.7	263.3	256.3	254.6	262.4	258.9	278.9	728.1	10115.5	18240.4	18900.8
75°	236.3	239.8	224.2	219.8	219.8	217.2	226.8	373.6	6565.3	14879.6	15915.3
77.5°	214.6	221.6	196.4	182.5	179.0	171.2	185.1	228.5	2871.6	6985.8	6840.7
80°	177.3	186.8	161.6	145.1	139.0	130.3	146.0	159.9	854.1	1622.2	1553.6
82.5°	132.1	136.4	114.7	103.4	98.2	92.1	109.5	111.2	278.0	574.3	649.1
85°	84.3	86.0	70.4	60.8	58.2	55.6	69.5	60.8	106.0	422.3	613.4
87.5°	29.5	33.9	26.9	24.3	26.1	21.7	32.1	18.2	29.5	298.0	369.3
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)