

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: P882925

Luminaire Tested: **NAV-SB3A-740-U-T1**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P882925  
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-SB3A-740-U-T1  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

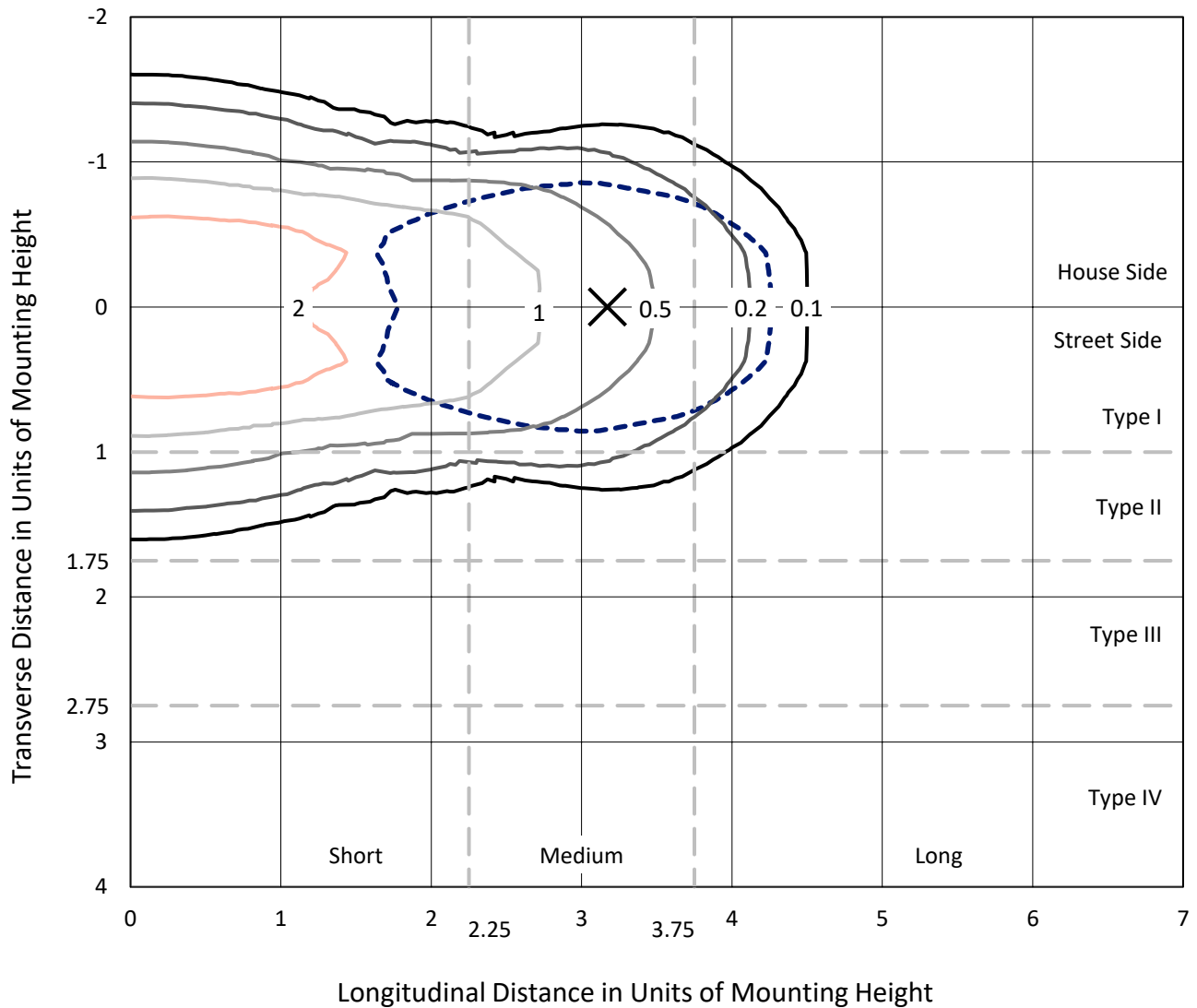
Lumens per Lamp: N/A  
Luminaire Lumens: 14350 lumens  
Efficiency: N/A  
Efficacy: 169.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 84.7  
Input Voltage (V): 120.0  
Input Current (Ain): 0.717  
Voltage Rise (V): NR  
Power Factor: 0.99  
Total Harmonic Distortion (THDi): 11.969  
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

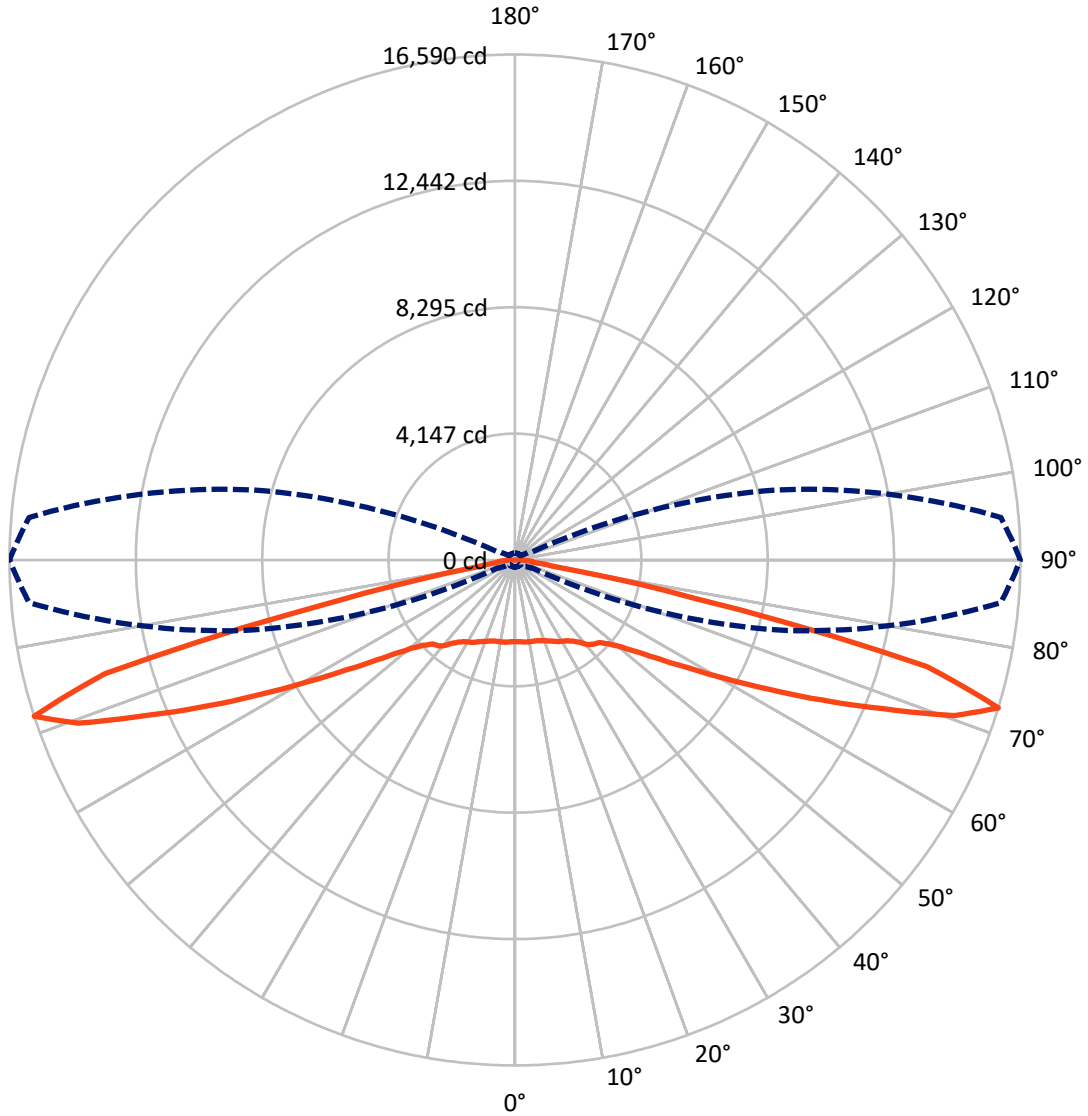
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7175.0	0.0	7175.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	7175.0	0.0	7175.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	14350.0	0.0	14350.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	260.0	1.8
10°-20°	795.0	5.5
20°-30°	1325.5	9.2
30°-40°	1823.0	12.7
40°-50°	2226.4	15.5
50°-60°	2575.1	17.9
60°-70°	3070.4	21.4
70°-80°	2142.9	14.9
80°-90°	131.6	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°	14350.0	100.0
0°-180°	14350.0	100.0

**Coefficient of Utilization**



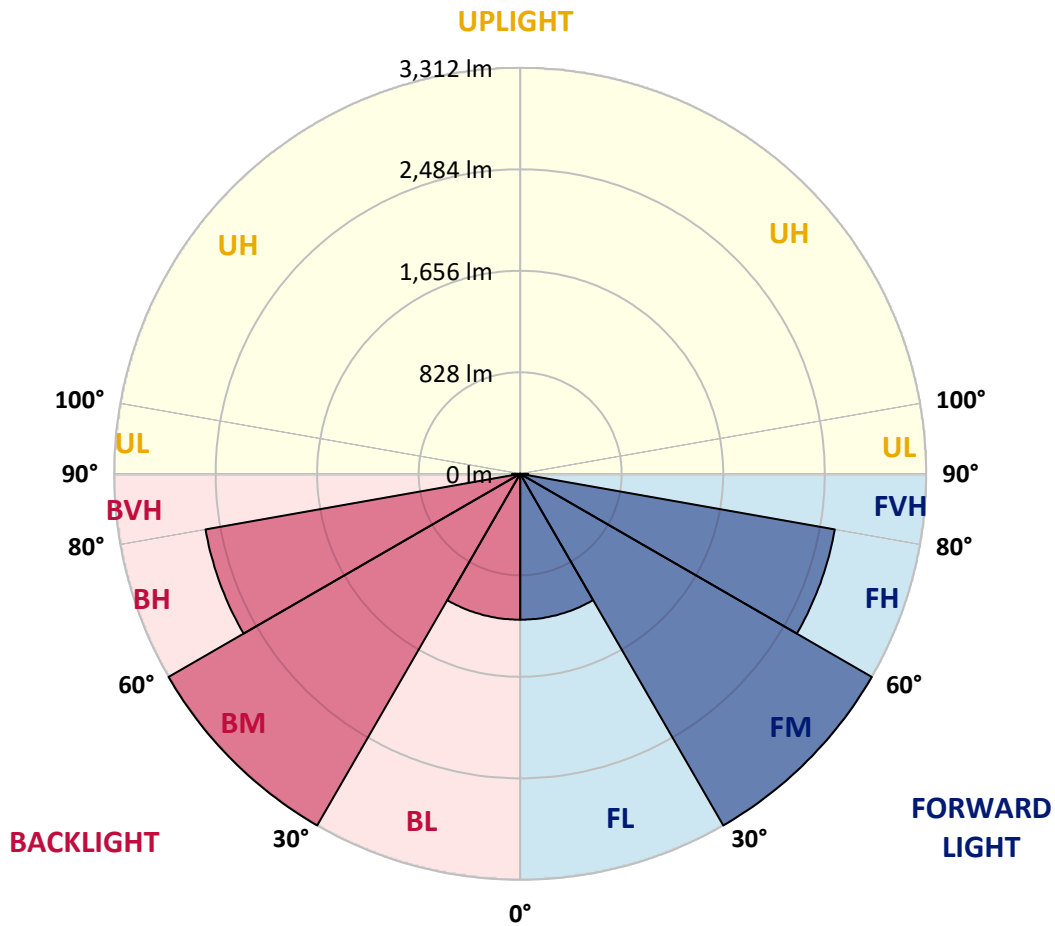
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1190.3	8.3			
FM (30°-60°)	3312.3	23.1			
FH (60°-80°)	2606.6	18.2			G2/5000
FVH (80°-90°)	65.8	0.5			G1/100
BL (0°-30°)	1190.3	8.3	B3/2500		
BM (30°-60°)	3312.3	23.1	B3/5000		
BH (60°-80°)	2606.6	18.2	B4/5000		G4/5000
BVH (80°-90°)	65.8	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°	2681.4	2681.4	2681.4	2681.4	2681.4	2681.4	2681.4	2681.4	2681.4	2681.4	2681.4
2.5°	2683.7	2686.8	2686.8	2684.5	2689.8	2685.3	2685.3	2683.0	2685.3	2683.0	2683.0
5°	2697.5	2701.3	2702.8	2702.0	2708.9	2705.1	2705.1	2702.0	2702.8	2700.5	2700.5
7.5°	2723.4	2728.7	2731.8	2735.6	2745.5	2740.9	2737.9	2728.7	2724.9	2718.8	2718.8
10°	2731.8	2737.9	2747.8	2767.6	2790.5	2791.3	2782.1	2759.2	2741.7	2728.0	2725.7
12.5°	2705.9	2714.2	2734.8	2775.3	2826.4	2846.9	2832.5	2794.3	2760.0	2735.6	2731.8
15°	2673.1	2682.2	2713.5	2774.5	2850.0	2898.0	2896.5	2846.2	2791.3	2753.1	2747.0
17.5°	2622.0	2631.1	2676.1	2761.5	2868.3	2947.6	2969.0	2917.1	2840.1	2789.0	2780.6
20°	2529.7	2538.1	2600.6	2720.3	2874.4	3000.2	3055.9	3010.1	2914.1	2844.7	2831.7
22.5°	2409.9	2422.9	2496.1	2649.4	2859.9	3055.1	3155.0	3123.8	3000.2	2904.1	2886.6
25°	2281.8	2295.6	2381.0	2562.5	2822.5	3094.8	3272.5	3252.7	3097.9	2978.1	2953.7
27.5°	2171.2	2185.7	2278.8	2476.3	2764.6	3110.1	3388.4	3398.3	3216.1	3059.7	3033.8
30°	2084.3	2098.0	2197.2	2406.9	2689.8	3094.8	3489.8	3558.5	3336.6	3130.6	3093.3
32.5°	1989.0	2006.5	2111.0	2322.2	2601.4	3058.2	3578.3	3731.6	3476.1	3206.9	3159.6
35°	1868.5	1884.5	1994.3	2206.3	2485.5	2999.5	3652.3	3923.8	3675.9	3322.8	3270.2
37.5°	1722.0	1737.3	1846.4	2061.4	2370.3	2917.1	3708.7	4140.4	3913.9	3489.8	3419.7
40°	1574.9	1589.3	1691.5	1899.7	2232.3	2811.9	3728.6	4352.4	4186.9	3719.4	3644.7
42.5°	1439.9	1452.8	1546.6	1740.3	2077.4	2677.6	3702.6	4537.0	4431.7	3879.6	3783.5
45°	1315.6	1327.0	1410.1	1590.9	1916.5	2514.4	3624.8	4735.2	4723.0	3994.0	3864.3
47.5°	1173.7	1185.1	1271.3	1446.0	1755.6	2323.0	3492.9	4930.5	5128.0	4253.3	4103.8
50°	1000.6	1010.5	1099.0	1279.0	1588.6	2119.4	3309.9	5083.8	5639.0	4646.0	4458.4
52.5°	795.4	806.1	892.3	1072.3	1390.3	1900.5	3068.9	5183.7	6229.3	5219.5	4988.4
55°	591.8	599.4	674.2	835.9	1144.7	1651.1	2766.9	5211.9	6898.9	6003.5	5714.5
57.5°	429.4	433.9	482.0	602.5	867.9	1339.2	2400.0	5138.7	7695.8	7008.7	6644.9
60°	347.8	349.3	363.8	417.2	603.2	986.9	1956.9	4887.0	8560.7	8304.4	7846.1
62.5°	315.7	315.7	319.5	334.0	408.0	651.3	1420.8	4365.4	9488.0	9941.8	9327.9
65°	293.6	293.6	295.1	302.0	321.8	414.9	896.9	3515.8	10269.7	11859.8	11083.5
67.5°	273.8	274.6	273.8	276.1	287.5	306.6	520.1	2428.3	10690.7	13847.3	13009.1
70°	253.2	254.7	250.9	250.9	260.1	260.8	325.6	1331.6	10341.4	15512.9	15292.5
72.5°	228.8	231.1	225.0	223.5	230.3	227.3	244.8	639.1	8878.7	16010.1	16589.7
75°	207.4	210.5	196.8	192.9	192.9	190.7	199.0	327.9	5762.5	13060.2	13969.3
77.5°	188.4	194.5	172.4	160.2	157.1	150.2	162.4	200.6	2520.5	6131.6	6004.3
80°	155.6	164.0	141.9	127.4	122.0	114.4	128.1	140.3	749.7	1423.9	1363.6
82.5°	115.9	119.7	100.7	90.8	86.2	80.8	96.1	97.6	244.0	504.1	569.7
85°	74.0	75.5	61.8	53.4	51.1	48.8	61.0	53.4	93.0	370.6	538.4
87.5°	25.9	29.7	23.6	21.4	22.9	19.1	28.2	16.0	25.9	261.6	324.1
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)