

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: P882585

Luminaire Tested: **NAV-SB2C-740-U-T1**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P882585  
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-SB2C-740-U-T1  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

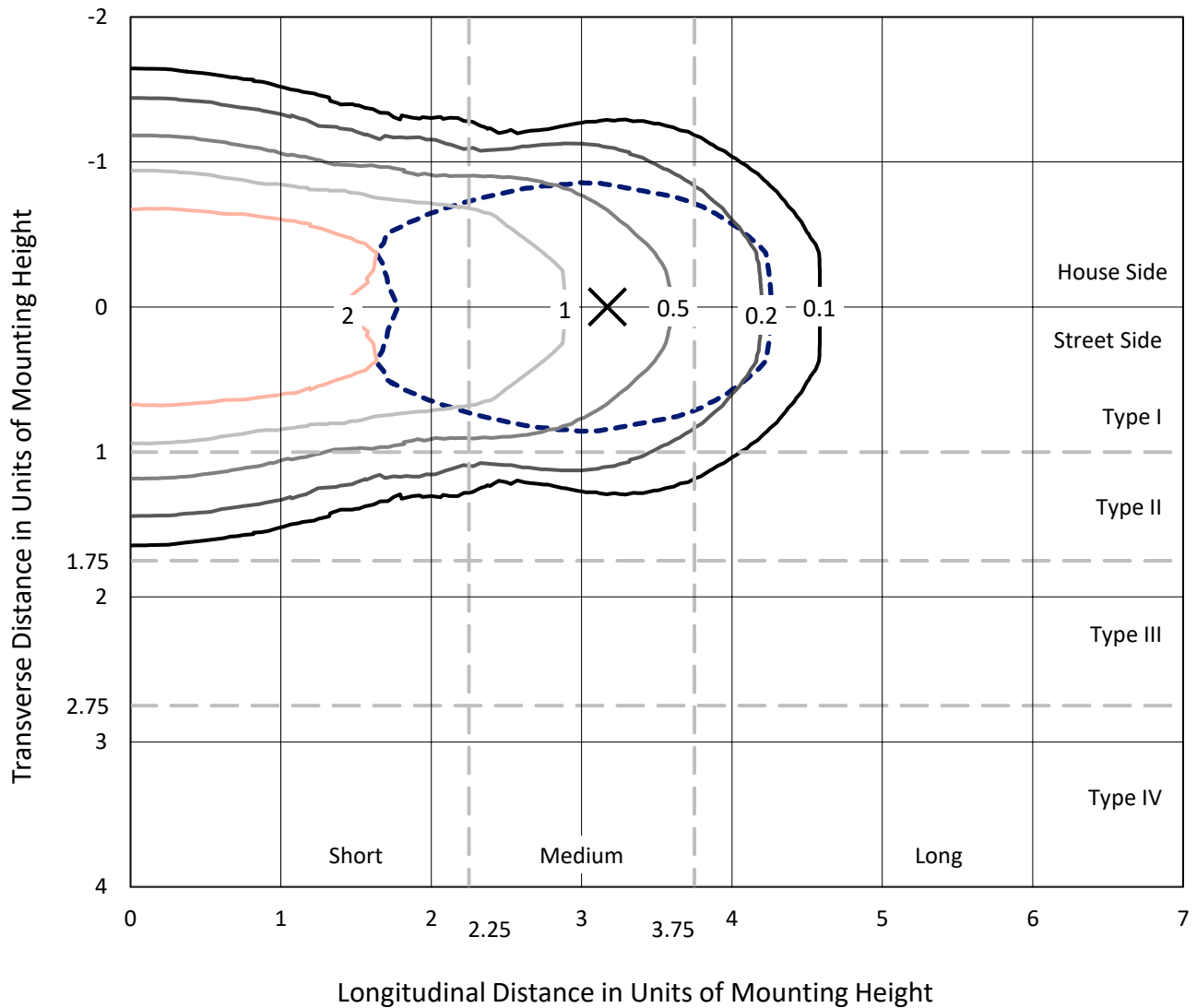
Lumens per Lamp: N/A  
Luminaire Lumens: 16279 lumens  
Efficiency: N/A  
Efficacy: 161.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 100.9  
Input Voltage (V): 120.0  
Input Current (Ain): 0.857  
Voltage Rise (V): NR  
Power Factor: 0.994  
Total Harmonic Distortion (THDi): 9.472  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P882585  
 CATALOG NUMBER: NAV-SB2C-740-U-T1

### Iso-Footcandle Lines of Horizontal Illumination

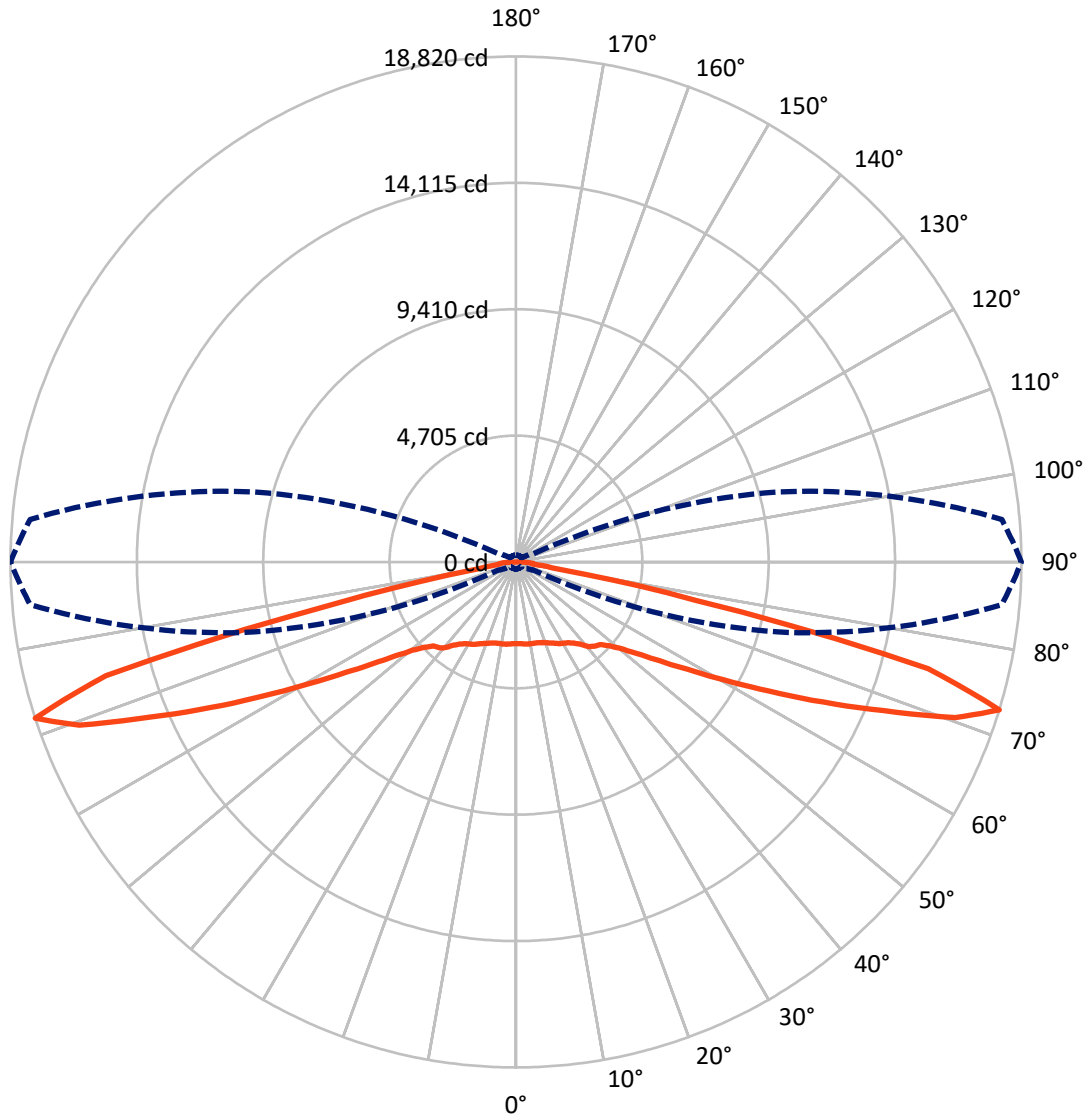
✕ Max cd  
 - - - 1/2 Max cd



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

REPORT NUMBER: P882585  
CATALOG NUMBER: NAV-SB2C-740-U-T1

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P882585  
 CATALOG NUMBER: NAV-SB2C-740-U-T1

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8139.5	0.0	8139.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	8139.5	0.0	8139.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	16279.0	0.0	16279.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	294.9	1.8
10°-20°	901.8	5.5
20°-30°	1503.7	9.2
30°-40°	2068.1	12.7
40°-50°	2525.7	15.5
50°-60°	2921.3	17.9
60°-70°	3483.1	21.4
70°-80°	2431.0	14.9
80°-90°	149.3	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°	16279.0	100.0
0°-180°	16279.0	100.0

**Coefficient of Utilization**



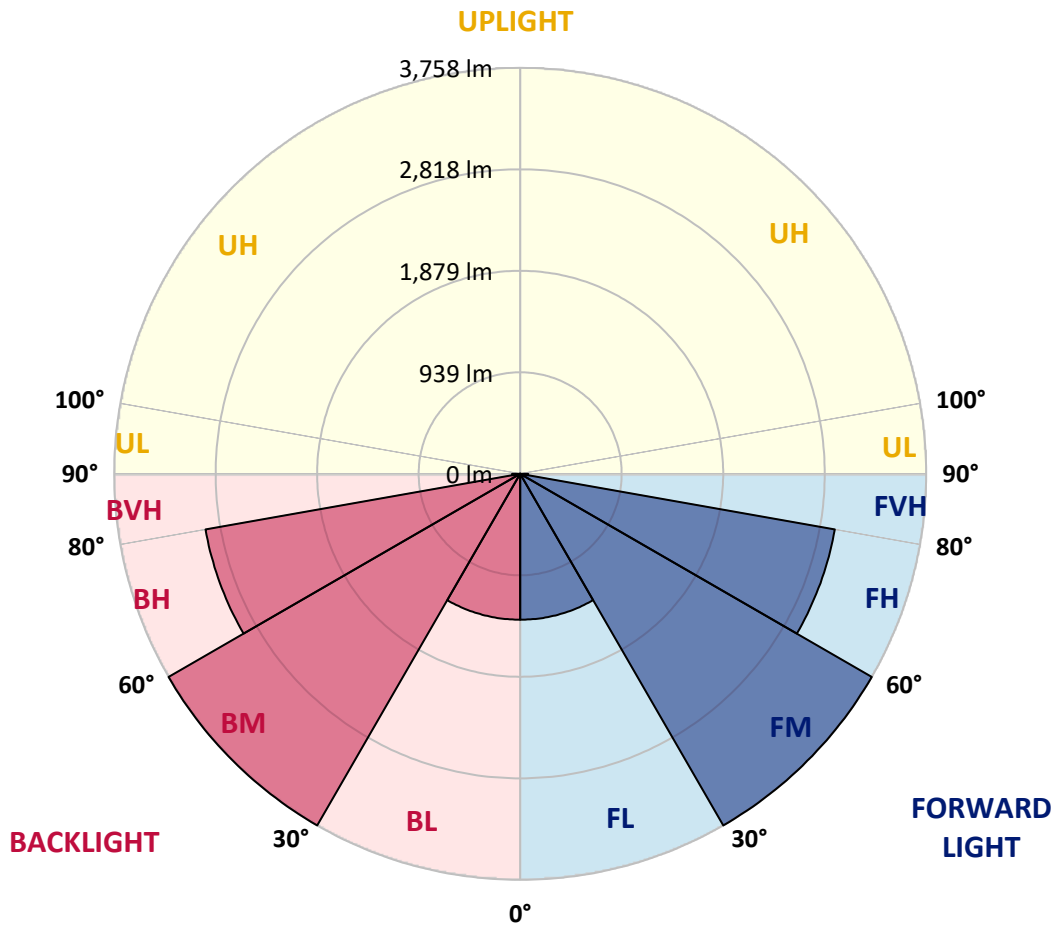
REPORT NUMBER: P882585  
 CATALOG NUMBER: NAV-SB2C-740-U-T1

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1350.3	8.3			
FM	(30°-60°)	3757.5	23.1			
FH	(60°-80°)	2957.0	18.2			G2/5000
FVH	(80°-90°)	74.7	0.5			G1/100
BL	(0°-30°)	1350.3	8.3	B3/2500		
BM	(30°-60°)	3757.5	23.1	B3/5000		
BH	(60°-80°)	2957.0	18.2	B4/5000		G4/5000
BVH	(80°-90°)	74.7	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



REPORT NUMBER: P882585  
 CATALOG NUMBER: NAV-SB2C-740-U-T1

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3041.9	3041.9	3041.9	3041.9	3041.9	3041.9	3041.9	3041.9	3041.9	3041.9	3041.9
2.5°	3044.5	3048.0	3048.0	3045.4	3051.4	3046.2	3046.2	3043.6	3046.2	3043.6	3043.6
5°	3060.1	3064.4	3066.1	3065.3	3073.0	3068.7	3068.7	3065.3	3066.1	3063.5	3063.5
7.5°	3089.5	3095.5	3099.0	3103.3	3114.6	3109.4	3105.9	3095.5	3091.2	3084.3	3084.3
10°	3099.0	3105.9	3117.2	3139.7	3165.6	3166.5	3156.1	3130.1	3110.3	3094.7	3092.1
12.5°	3069.6	3079.1	3102.5	3148.3	3206.3	3229.6	3213.2	3169.9	3131.0	3103.3	3099.0
15°	3032.4	3042.8	3078.2	3147.5	3233.1	3287.6	3285.9	3228.8	3166.5	3123.2	3116.3
17.5°	2974.4	2984.8	3035.8	3132.7	3253.9	3343.8	3368.1	3309.2	3221.9	3163.9	3154.4
20°	2869.7	2879.3	2950.2	3086.0	3260.8	3403.5	3466.7	3414.8	3305.8	3227.0	3212.3
22.5°	2733.9	2748.6	2831.7	3005.6	3244.4	3465.8	3579.2	3543.7	3403.5	3294.5	3274.6
25°	2588.6	2604.1	2701.0	2906.9	3202.0	3510.8	3712.4	3689.9	3514.3	3378.5	3350.8
27.5°	2463.1	2479.5	2585.1	2809.2	3136.2	3528.1	3843.9	3855.2	3648.4	3471.0	3441.6
30°	2364.5	2380.1	2492.5	2730.4	3051.4	3510.8	3959.0	4036.8	3785.1	3551.5	3509.1
32.5°	2256.3	2276.2	2394.8	2634.4	2951.1	3469.3	4059.3	4233.2	3943.4	3638.0	3584.4
35°	2119.6	2137.8	2262.4	2502.9	2819.6	3402.7	4143.3	4451.2	4170.1	3769.5	3709.8
37.5°	1953.5	1970.8	2094.6	2338.5	2688.9	3309.2	4207.3	4697.0	4440.0	3959.0	3879.4
40°	1786.6	1803.0	1918.9	2155.1	2532.3	3189.8	4229.8	4937.5	4749.7	4219.4	4134.6
42.5°	1633.4	1648.1	1754.5	1974.3	2356.7	3037.6	4200.4	5146.8	5027.4	4401.1	4292.1
45°	1492.4	1505.4	1599.7	1804.7	2174.1	2852.4	4112.1	5371.8	5357.9	4530.8	4383.8
47.5°	1331.5	1344.5	1442.2	1640.3	1991.6	2635.3	3962.4	5593.3	5817.3	4825.0	4655.4
50°	1135.1	1146.3	1246.7	1450.9	1802.1	2404.3	3754.8	5767.2	6397.0	5270.6	5057.7
52.5°	902.4	914.5	1012.2	1216.4	1577.2	2156.0	3481.4	5880.5	7066.6	5921.2	5659.0
55°	671.4	680.0	764.8	948.2	1298.6	1873.1	3138.8	5912.5	7826.2	6810.5	6482.6
57.5°	487.1	492.3	546.8	683.5	984.6	1519.2	2722.7	5829.4	8730.3	7950.8	7538.1
60°	394.5	396.2	412.7	473.2	684.3	1119.5	2220.0	5543.9	9711.4	9420.7	8900.8
62.5°	358.2	358.2	362.5	378.9	462.9	738.8	1611.8	4952.2	10763.5	11278.2	10581.8
65°	333.1	333.1	334.8	342.6	365.1	470.6	1017.4	3988.4	11650.2	13454.1	12573.4
67.5°	310.6	311.5	310.6	313.2	326.2	347.8	590.0	2754.7	12127.8	15708.7	14757.9
70°	287.2	289.0	284.6	284.6	295.0	295.9	369.4	1510.6	11731.6	17598.2	17348.2
72.5°	259.5	262.1	255.2	253.5	261.3	257.8	277.7	725.0	10072.2	18162.3	18819.8
75°	235.3	238.8	223.2	218.9	218.9	216.3	225.8	372.0	6537.1	14815.9	15847.1
77.5°	213.7	220.6	195.5	181.7	178.2	170.4	184.3	227.5	2859.4	6955.9	6811.4
80°	176.5	186.0	160.9	144.5	138.4	129.8	145.3	159.2	850.5	1615.3	1546.9
82.5°	131.5	135.8	114.2	103.0	97.8	91.7	109.0	110.7	276.9	571.9	646.3
85°	83.9	85.7	70.1	60.6	58.0	55.4	69.2	60.6	105.5	420.5	610.8
87.5°	29.4	33.7	26.8	24.2	26.0	21.6	32.0	18.2	29.4	296.7	367.7
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)