

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: P966570

Luminaire Tested: **NAV-SB4C-722-U-RW**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P966570  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB4C-722-U-RW  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR  
WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

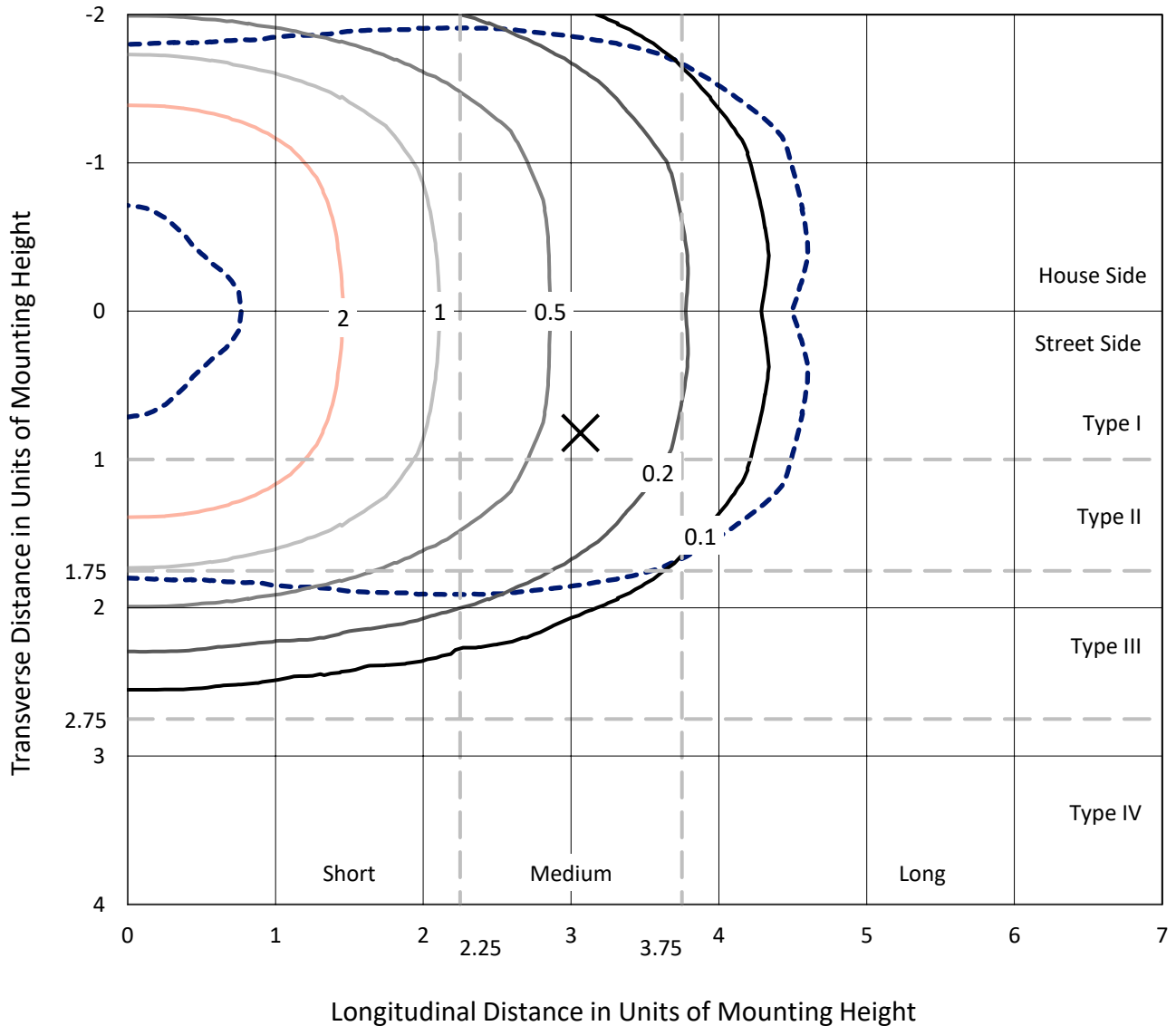
Lumens per Lamp: N/A  
Luminaire Lumens: 26170.3 lumens  
Efficiency: N/A  
Efficacy: 130.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 200.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
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

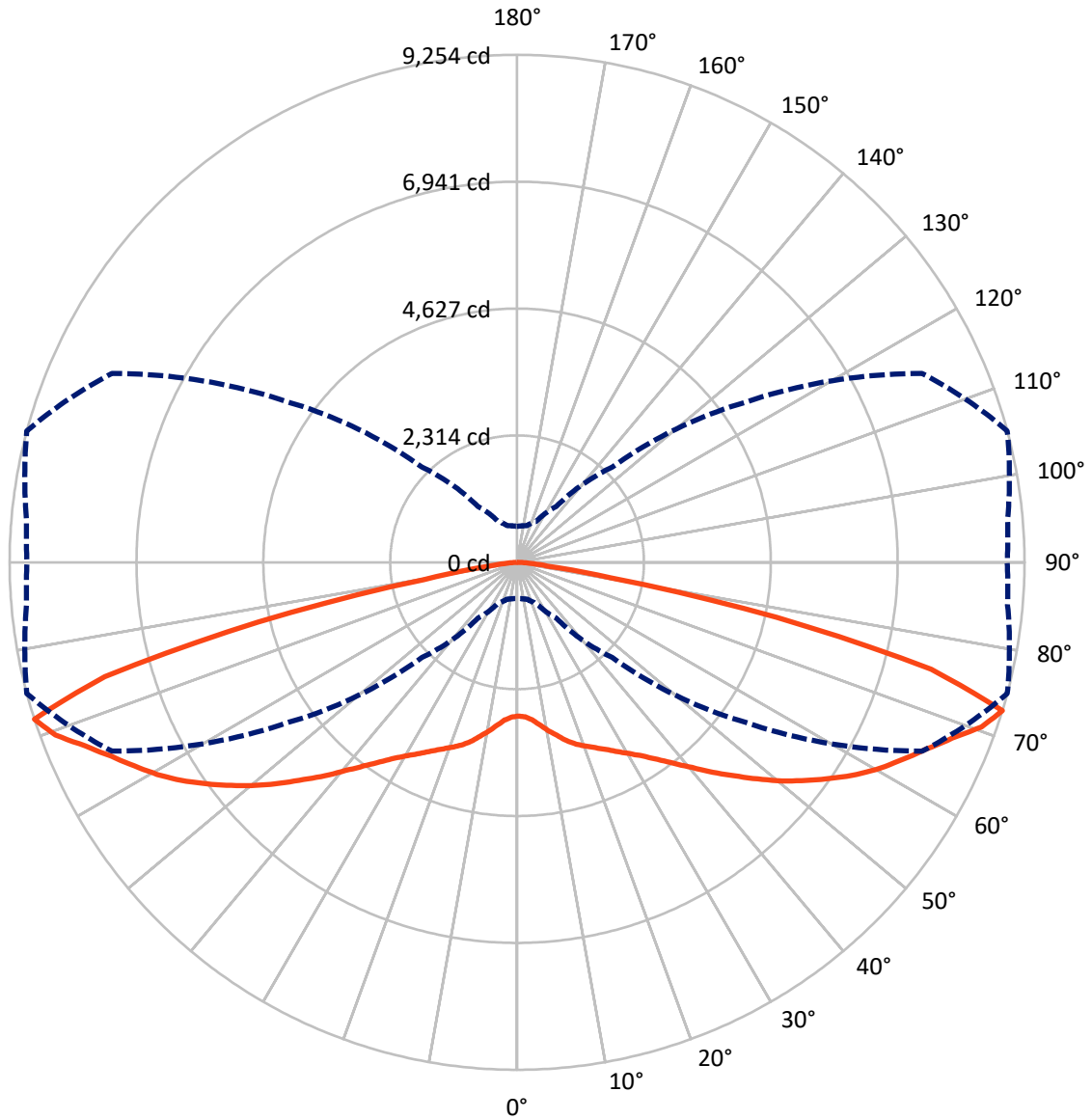
× Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13085.2	0.0	13085.2
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	13085.2	0.0	13085.2
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	26170.3	0.0	26170.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	274.6	1.0
10°-20°	905.7	3.5
20°-30°	1750.1	6.7
30°-40°	2955.2	11.3
40°-50°	4686.5	17.9
50°-60°	6274.7	24.0
60°-70°	5971.5	22.8
70°-80°	3116.1	11.9
80°-90°	235.9	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°	26170.3	100.0
0°-180°	26170.3	100.0

**Coefficient of Utilization**

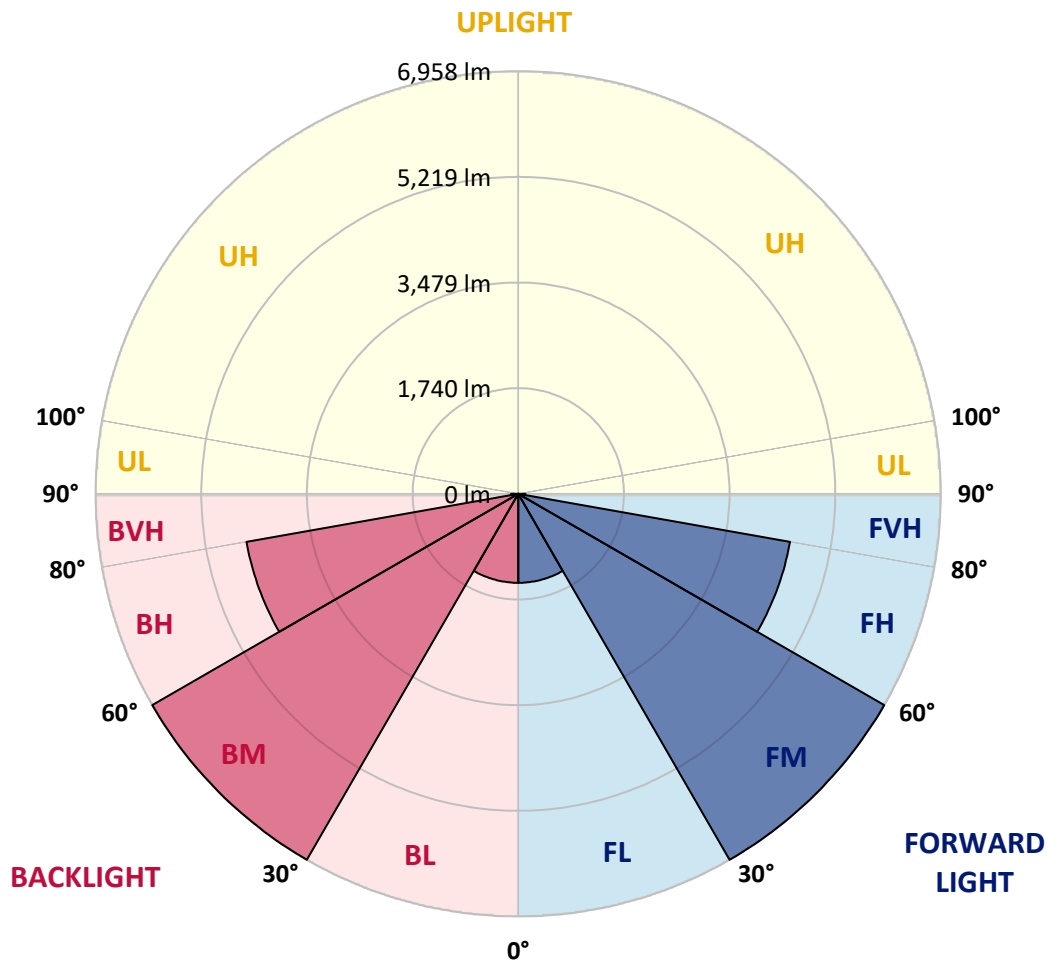


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1465.2	5.6			
FM (30°-60°)	6958.2	26.6			
FH (60°-80°)	4543.8	17.4			G2/5000
FVH (80°-90°)	117.9	0.5			G2/225
BL (0°-30°)	1465.2	5.6	B3/2500		
BM (30°-60°)	6958.2	26.6	B4/8500		
BH (60°-80°)	4543.8	17.4	B4/5000		G4/5000
BVH (80°-90°)	117.9	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 III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2803.3	2803.3	2803.3	2803.3	2803.3	2803.3	2803.3	2803.3	2803.3	2803.3	2803.3
2.5°	2803.3	2800.6	2803.3	2805.9	2804.6	2804.6	2811.4	2815.4	2823.4	2822.0	2820.7
5°	2784.6	2783.3	2793.9	2805.9	2815.4	2831.4	2851.4	2866.1	2884.9	2888.9	2888.9
7.5°	2775.3	2771.2	2789.9	2811.4	2840.7	2880.8	2919.5	2959.7	2991.7	3002.4	3005.1
10°	2782.0	2783.3	2808.6	2848.8	2895.5	2951.6	3006.4	3074.6	3120.0	3130.7	3141.3
12.5°	2812.7	2810.0	2852.8	2916.8	2981.0	3051.8	3116.0	3190.8	3240.2	3265.6	3276.3
15°	2868.8	2863.4	2923.6	3018.4	3112.0	3194.8	3246.9	3317.7	3375.2	3407.3	3419.3
17.5°	2935.6	2938.3	3017.1	3140.0	3263.0	3356.5	3406.0	3442.1	3486.1	3514.1	3527.5
20°	3053.2	3058.5	3146.7	3292.3	3432.6	3539.5	3579.6	3566.3	3578.3	3599.7	3615.7
22.5°	3210.8	3213.5	3312.4	3470.0	3617.0	3734.6	3761.3	3706.6	3673.2	3687.8	3698.5
25°	3393.9	3411.3	3510.1	3671.9	3822.8	3935.1	3947.1	3864.2	3781.4	3785.4	3792.1
27.5°	3617.0	3633.1	3733.3	3893.7	4047.3	4144.8	4143.5	4032.6	3911.0	3880.2	3889.7
30°	3858.9	3876.2	3979.2	4144.8	4287.8	4373.4	4354.6	4222.3	4048.6	3991.1	3997.8
32.5°	4146.1	4156.9	4261.1	4426.8	4559.1	4627.2	4588.4	4425.4	4209.0	4143.5	4159.6
35°	4493.6	4509.6	4587.1	4743.4	4859.7	4915.8	4850.3	4657.9	4414.8	4341.3	4351.9
37.5°	4890.4	4879.7	4968.0	5106.9	5203.1	5237.9	5148.3	4919.8	4649.9	4563.1	4579.1
40°	5304.7	5299.2	5395.5	5529.2	5581.2	5602.6	5470.3	5220.4	4921.1	4827.6	4858.4
42.5°	5680.1	5676.1	5805.7	5954.0	6016.9	5992.8	5825.8	5539.8	5235.2	5128.3	5155.0
45°	5980.8	5975.4	6134.4	6342.8	6465.8	6425.7	6201.2	5892.5	5553.1	5442.2	5467.7
47.5°	6211.9	6214.6	6385.6	6643.5	6858.6	6873.3	6584.7	6252.0	5903.3	5777.6	5815.0
50°	6378.9	6387.0	6570.0	6855.9	7149.9	7279.6	6976.2	6620.8	6265.3	6123.8	6166.5
52.5°	6420.4	6435.1	6655.5	6990.9	7337.0	7584.2	7374.4	6974.8	6608.8	6473.8	6508.5
55°	6199.9	6229.2	6508.5	6980.2	7451.9	7784.6	7724.5	7334.3	6954.8	6815.8	6854.6
57.5°	5693.5	5734.9	6060.9	6676.8	7426.5	7922.2	7995.7	7679.0	7300.9	7167.3	7198.0
60°	4984.0	5033.4	5346.1	6018.2	7068.4	7973.0	8186.8	8014.4	7618.9	7489.3	7517.4
62.5°	3913.7	3977.8	4351.9	5140.3	6312.2	7736.5	8349.8	8317.8	7904.8	7743.2	7761.9
65°	2510.6	2578.8	2973.0	3904.3	5303.3	7012.2	8400.6	8613.0	8206.9	7981.1	8009.0
67.5°	1513.9	1544.7	1739.7	2366.4	3876.2	5920.6	7970.3	8940.4	8559.6	8279.0	8300.3
70°	968.7	986.2	1102.4	1389.6	2191.3	4319.9	6904.1	9001.9	8987.2	8585.0	8582.3
72.5°	657.4	662.8	693.5	823.1	1239.9	2454.6	5092.2	8149.4	9254.4	8979.1	8936.4
75°	481.0	510.4	559.9	582.6	704.2	1226.6	2918.2	5725.5	7799.3	7919.6	7628.3
77.5°	358.1	359.5	427.5	454.3	502.5	653.4	1234.6	3196.2	4842.3	5084.2	4535.0
80°	303.3	287.3	286.0	366.1	378.1	407.5	551.9	1103.7	1734.4	1051.5	795.0
82.5°	252.6	235.1	212.5	286.0	257.9	249.9	239.1	449.0	551.9	271.2	231.1
85°	176.4	168.4	160.3	187.1	147.0	125.6	114.9	209.8	232.5	114.9	101.6
87.5°	76.2	78.8	80.2	82.8	61.5	44.1	44.1	58.8	58.8	45.4	33.4
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)