

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: P965048

Luminaire Tested: **NAV-SB3D-730-U-5WQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P965048  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB3D-730-U-5WQ  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 31655 lumens  
Efficiency: N/A  
Efficacy: 145.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

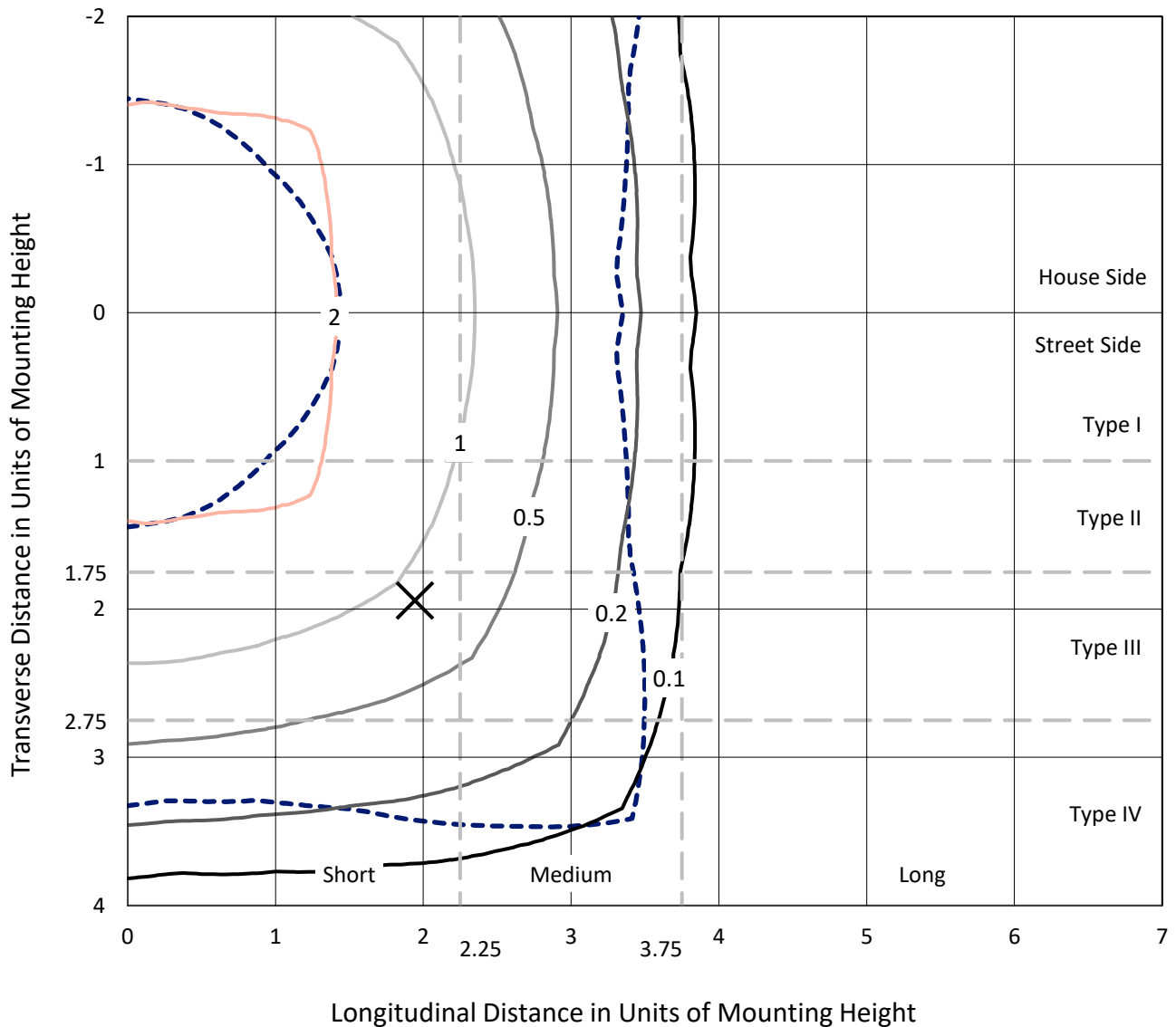
Input Watts (W): 218.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

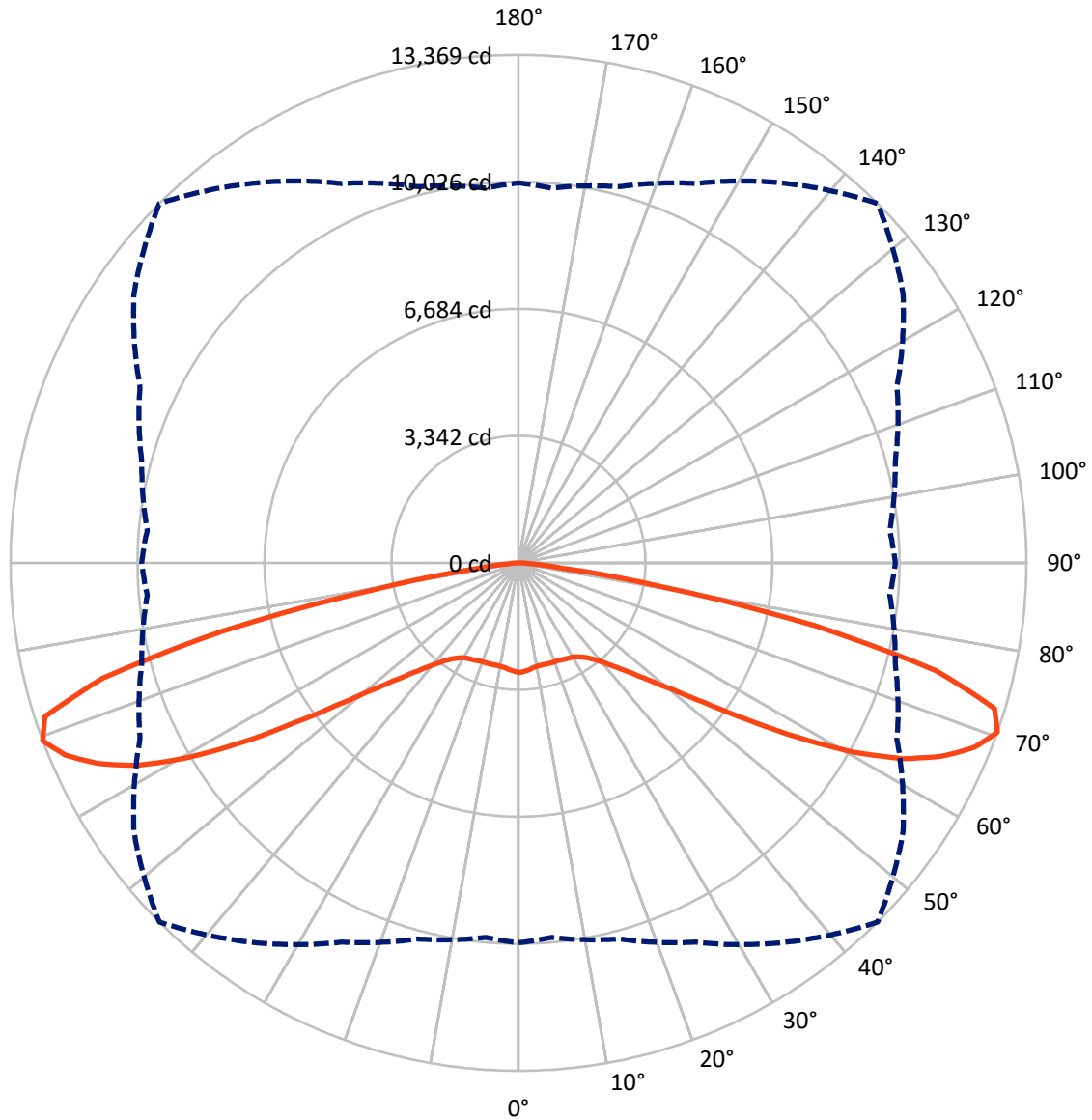
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	15827.5	0.0	15827.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	15827.5	0.0	15827.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	31655.0	0.0	31655.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	268.6	0.8
10°-20°	788.7	2.5
20°-30°	1312.5	4.1
30°-40°	1984.9	6.3
40°-50°	3298.5	10.4
50°-60°	6224.2	19.7
60°-70°	10509.8	33.2
70°-80°	6906.0	21.8
80°-90°	361.8	1.1
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°	31655.0	100.0
0°-180°	31655.0	100.0

**Coefficient of Utilization**



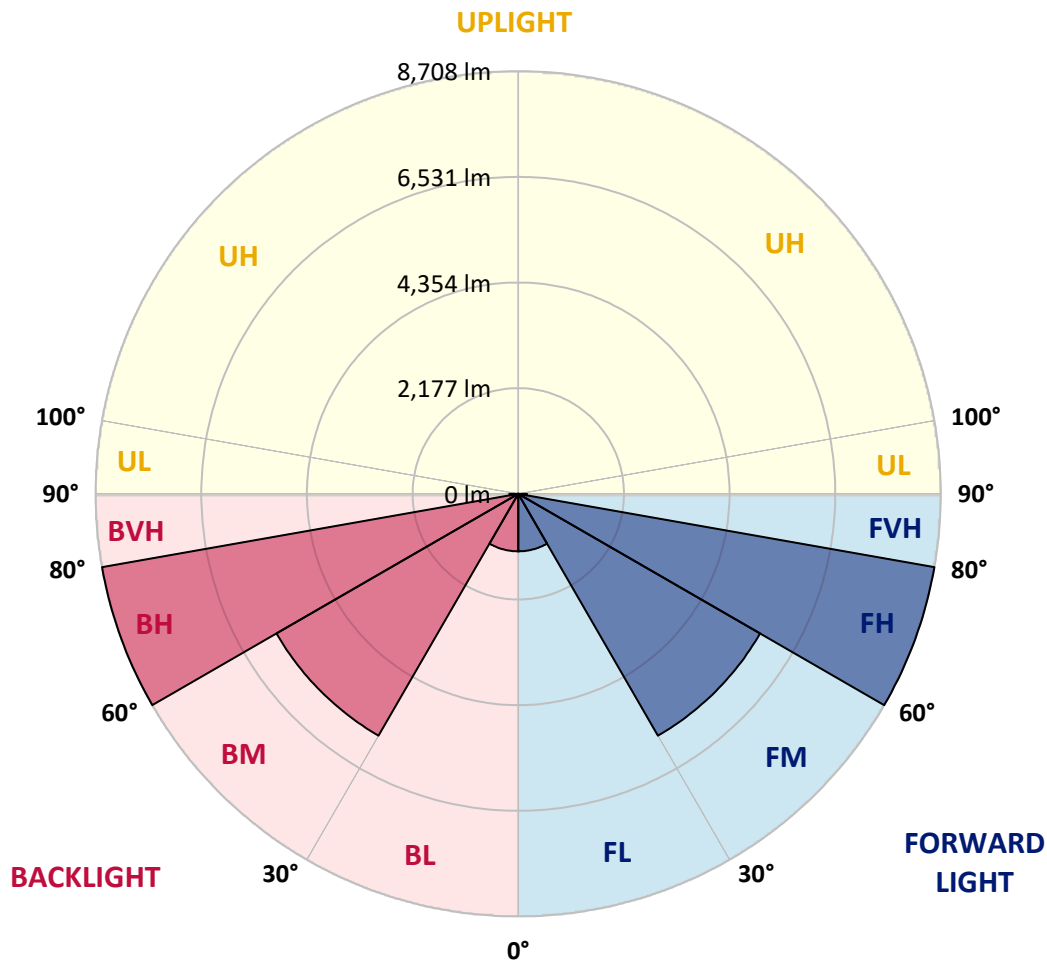
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1184.9	3.7			
FM (30°-60°)	5753.8	18.2			
FH (60°-80°)	8707.9	27.5			G4/12000
FVH (80°-90°)	180.9	0.6			G2/225
BL (0°-30°)	1184.9	3.7	B3/2500		
BM (30°-60°)	5753.8	18.2	B4/8500		
BH (60°-80°)	8707.9	27.5	B5		G4/12000
BVH (80°-90°)	180.9	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G4**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2887.6	2887.6	2887.6	2887.6	2887.6	2887.6	2887.6	2887.6	2887.6	2887.6	2887.6
2.5°	2869.5	2877.7	2874.4	2867.8	2867.8	2862.9	2867.8	2871.1	2876.0	2879.3	2877.7
5°	2831.7	2838.2	2836.6	2831.7	2833.3	2828.4	2831.7	2836.6	2839.9	2841.5	2841.5
7.5°	2798.8	2805.3	2802.0	2793.8	2793.8	2788.8	2790.5	2795.5	2800.4	2802.0	2802.0
10°	2790.5	2797.1	2787.2	2774.1	2769.1	2762.6	2764.2	2769.1	2779.0	2783.9	2783.9
12.5°	2793.8	2798.8	2788.8	2769.1	2764.2	2757.6	2757.6	2762.6	2775.7	2782.3	2783.9
15°	2803.7	2808.6	2793.8	2772.4	2767.5	2762.6	2760.8	2767.5	2782.3	2793.8	2795.5
17.5°	2821.7	2826.7	2803.7	2774.1	2767.5	2769.1	2767.5	2772.4	2795.5	2816.8	2816.8
20°	2838.2	2841.5	2810.2	2774.1	2767.5	2769.1	2767.5	2777.3	2807.0	2836.6	2838.2
22.5°	2843.1	2846.4	2816.8	2785.5	2780.6	2782.3	2780.6	2790.5	2818.4	2848.1	2848.1
25°	2844.8	2849.7	2826.7	2802.0	2810.2	2813.5	2810.2	2811.9	2833.3	2859.6	2858.0
27.5°	2869.5	2876.0	2854.6	2833.3	2838.2	2836.6	2841.5	2846.4	2862.9	2889.3	2882.6
30°	2920.5	2925.5	2907.3	2885.9	2882.6	2871.1	2885.9	2902.4	2920.5	2943.5	2938.6
32.5°	3004.4	3014.3	2991.3	2968.2	2953.4	2946.8	2958.4	2986.3	3010.9	3035.6	3025.8
35°	3144.3	3150.8	3129.4	3086.7	3060.3	3060.3	3070.2	3106.4	3145.9	3177.2	3165.6
37.5°	3341.7	3349.9	3312.1	3261.0	3221.6	3221.6	3234.8	3272.6	3331.9	3376.2	3359.7
40°	3582.0	3593.4	3545.7	3493.1	3455.3	3448.6	3465.1	3507.9	3563.8	3619.8	3601.6
42.5°	3871.5	3884.6	3822.1	3776.1	3746.5	3746.5	3754.7	3794.1	3845.2	3914.3	3909.3
45°	4241.7	4264.7	4179.1	4133.1	4105.1	4111.7	4116.6	4151.2	4197.3	4276.3	4272.9
47.5°	4682.6	4705.7	4615.2	4567.5	4562.6	4593.8	4574.1	4598.8	4623.5	4713.9	4687.6
50°	5182.8	5222.4	5159.8	5156.5	5166.4	5224.0	5177.9	5191.1	5163.1	5220.6	5186.1
52.5°	5794.9	5852.4	5841.0	5860.7	5970.9	6089.4	5984.2	5938.0	5832.8	5850.8	5789.9
55°	6536.9	6624.2	6640.6	6759.1	7009.2	7251.1	7027.3	6841.4	6617.6	6576.4	6512.2
57.5°	7381.0	7450.1	7529.1	7770.9	8238.2	8667.7	8238.2	7826.9	7474.8	7390.9	7331.6
60°	8289.3	8374.8	8450.5	8807.5	9501.9	10105.7	9488.7	8835.5	8369.8	8256.4	8157.7
62.5°	9265.0	9375.2	9427.8	9824.3	10633.9	11354.5	10645.3	9853.9	9337.3	9215.6	9116.9
65°	10201.1	10291.6	10350.9	10773.7	11547.0	12269.4	11599.7	10819.8	10288.3	10128.7	10049.7
67.5°	10637.1	10686.5	10831.3	11310.1	12126.2	12950.5	12264.4	11361.1	10767.1	10487.4	10490.7
70°	9998.8	9898.4	10247.2	11013.9	12195.2	13368.5	12353.3	10990.9	10263.6	9809.6	9918.1
72.5°	7726.6	7553.7	8159.3	9470.6	11405.5	13101.9	11484.5	9544.6	8536.1	7614.6	7843.4
75°	4203.8	4008.1	4843.9	6502.4	9095.4	11356.2	9304.4	6688.3	5393.4	4172.6	4444.1
77.5°	1186.3	1112.2	1786.9	3145.9	5470.7	7973.4	5681.4	3215.0	2119.2	1257.1	1396.9
80°	363.7	352.1	477.1	947.7	2323.3	3818.8	2232.8	959.2	607.1	383.3	404.8
82.5°	215.6	197.4	237.0	345.5	592.3	1199.5	575.8	360.3	289.6	194.1	210.6
85°	123.4	115.2	139.8	167.8	199.1	255.0	166.2	171.1	154.7	103.6	108.5
87.5°	51.0	46.0	54.3	52.7	46.0	59.2	44.4	52.7	62.5	41.1	37.8
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)