

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: P966070

Luminaire Tested: **NAV-SB4B-727-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P966070
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB4B-727-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22483.3 lumens
Efficiency: N/A
Efficacy: 152.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

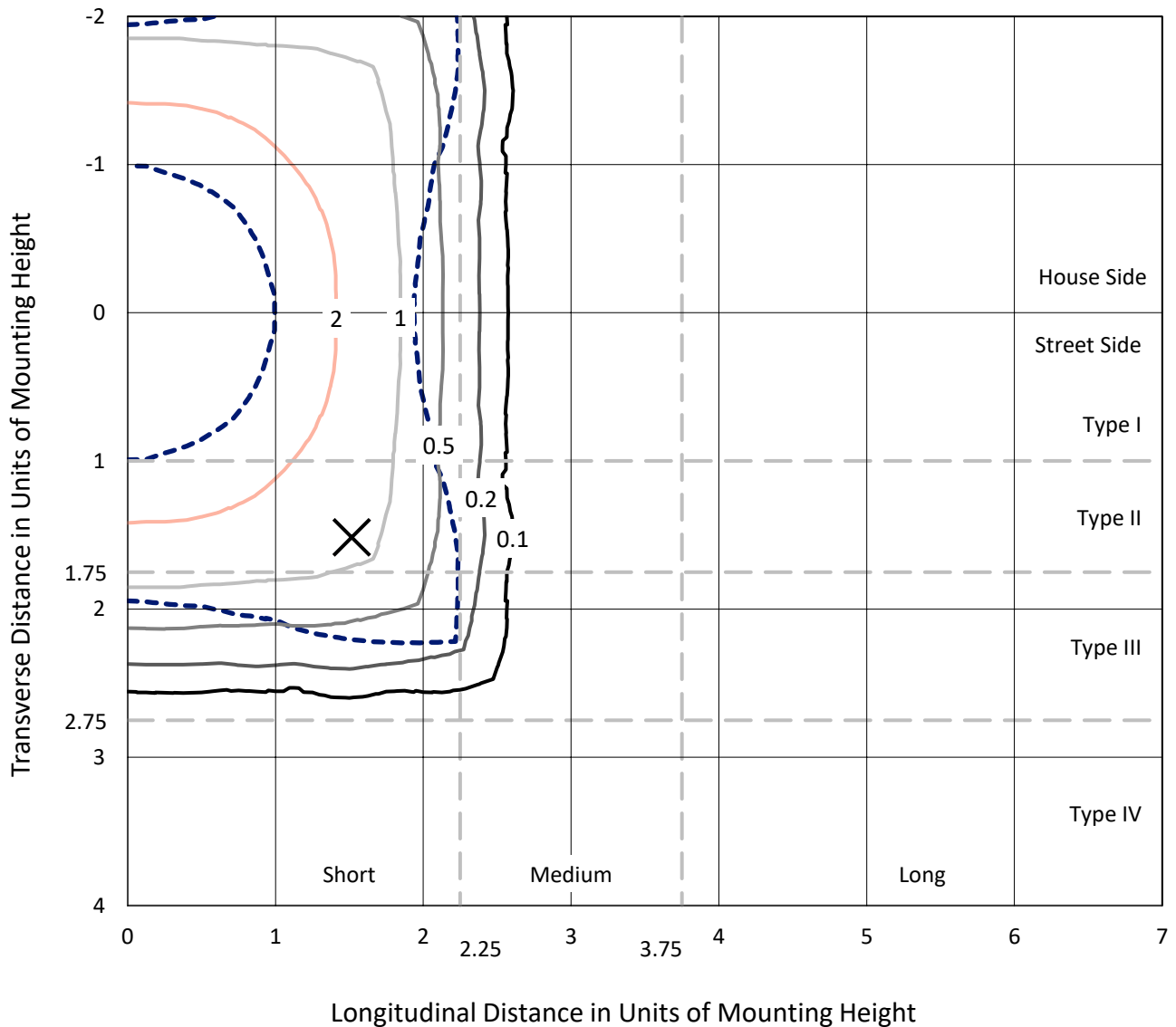
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

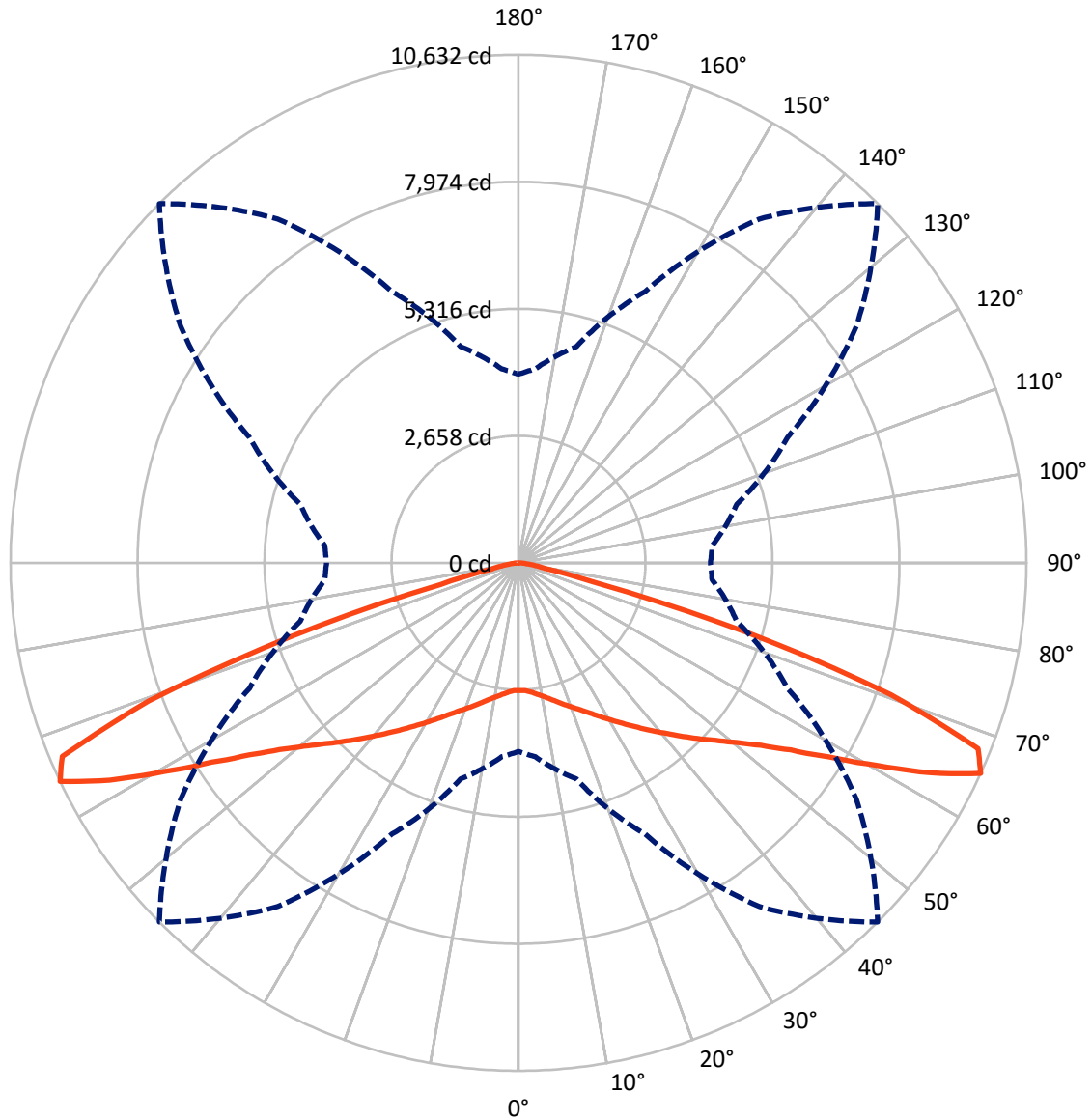
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11241.7	0.0	11241.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11241.7	0.0	11241.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	22483.3	0.0	22483.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	264.1	1.2
10°-20°	861.7	3.8
20°-30°	1627.0	7.2
30°-40°	2664.1	11.8
40°-50°	4130.7	18.4
50°-60°	6101.9	27.1
60°-70°	5808.4	25.8
70°-80°	937.3	4.2
80°-90°	88.3	0.4
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°	22483.3	100.0
0°-180°	22483.3	100.0

Coefficient of Utilization

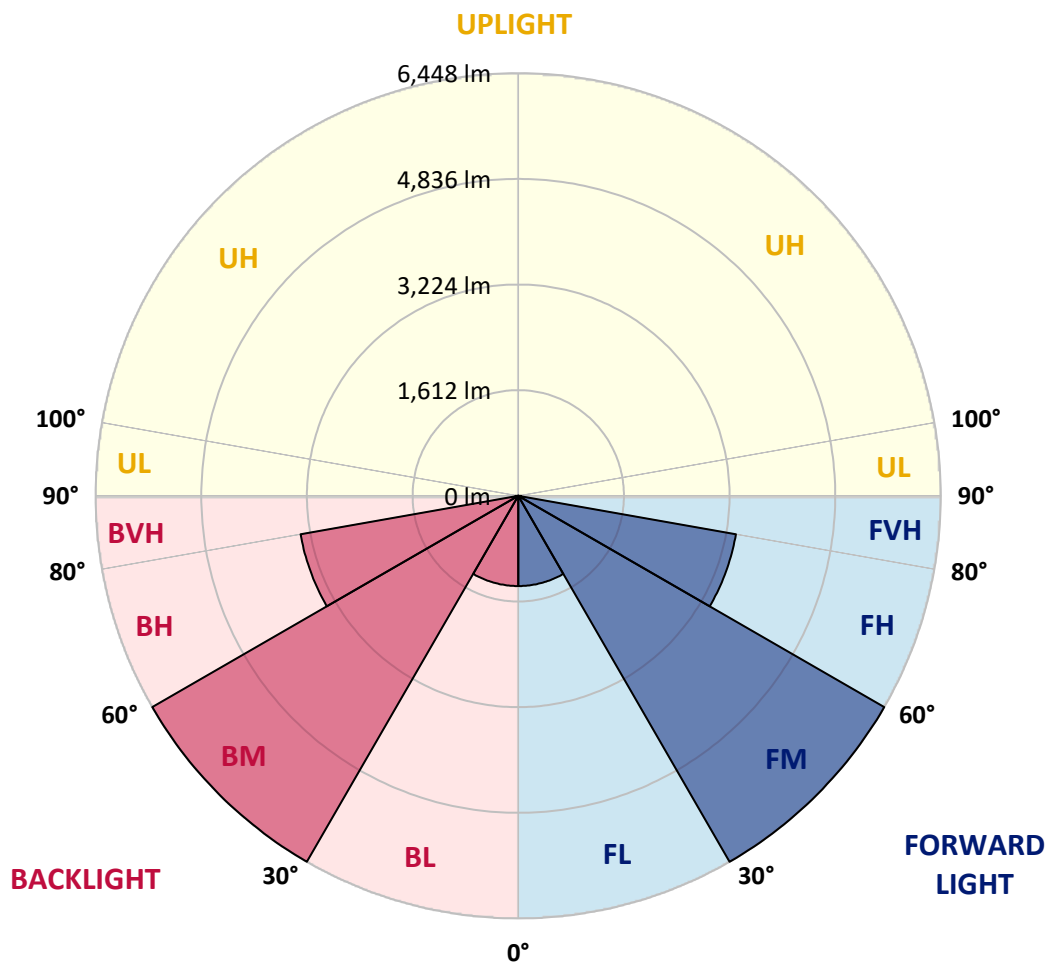


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1376.4	6.1			
FM (30°-60°)	6448.3	28.7			
FH (60°-80°)	3372.8	15.0			G2/5000
FVH (80°-90°)	44.2	0.2			G1/100
BL (0°-30°)	1376.4	6.1	B3/2500		
BM (30°-60°)	6448.3	28.7	B4/8500		
BH (60°-80°)	3372.8	15.0	B4/5000		G2/5000
BVH (80°-90°)	44.2	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2
 Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2675.8	2675.8	2675.8	2675.8	2675.8	2675.8	2675.8	2675.8	2675.8	2675.8	2675.8
2.5°	2693.8	2684.8	2691.5	2685.9	2681.4	2676.9	2679.1	2687.0	2690.4	2691.5	2691.5
5°	2729.9	2722.0	2725.4	2725.4	2717.5	2715.2	2716.4	2722.0	2728.8	2728.8	2728.8
7.5°	2788.5	2780.6	2788.5	2784.0	2777.2	2775.0	2773.9	2778.4	2788.5	2788.5	2785.1
10°	2859.6	2850.6	2855.1	2852.9	2845.0	2841.6	2840.5	2847.2	2856.3	2855.1	2852.9
12.5°	2937.4	2927.3	2932.9	2926.2	2923.9	2920.5	2920.5	2919.4	2925.0	2920.5	2922.8
15°	3024.4	3017.5	3019.8	3015.2	3018.6	3016.4	3007.4	3002.8	3005.1	2998.3	2999.5
17.5°	3127.0	3111.2	3119.1	3116.8	3116.8	3121.3	3106.7	3101.0	3105.5	3098.8	3104.4
20°	3245.5	3229.7	3233.1	3228.4	3222.8	3227.3	3209.3	3213.8	3217.2	3212.7	3222.8
22.5°	3375.1	3354.8	3353.7	3356.0	3343.6	3344.7	3332.3	3343.6	3350.3	3337.9	3350.3
25°	3508.3	3486.8	3501.5	3495.9	3480.1	3483.5	3474.4	3485.7	3491.4	3475.6	3493.6
27.5°	3649.3	3634.5	3648.2	3651.6	3632.3	3645.9	3632.3	3642.4	3648.2	3624.4	3642.4
30°	3813.9	3799.3	3811.7	3820.7	3798.1	3819.6	3808.3	3815.0	3816.2	3788.0	3804.9
32.5°	3993.3	3970.7	4002.3	4006.8	3982.0	4008.0	3993.3	4002.3	4008.0	3969.6	3995.6
35°	4212.1	4183.9	4220.0	4214.4	4193.0	4214.4	4200.9	4214.4	4227.9	4181.7	4209.9
37.5°	4447.9	4418.6	4456.9	4446.8	4426.5	4441.1	4433.2	4442.2	4463.7	4414.1	4444.5
40°	4707.4	4671.2	4723.2	4705.2	4685.9	4683.6	4688.2	4693.9	4722.1	4666.7	4684.8
42.5°	4984.9	4946.5	5024.3	4996.2	4969.1	4951.1	4965.7	4977.0	5004.0	4942.0	4974.7
45°	5301.8	5257.8	5359.4	5325.6	5282.6	5245.4	5269.1	5286.0	5325.6	5251.1	5289.4
47.5°	5651.5	5601.9	5710.2	5700.0	5630.1	5548.9	5603.1	5651.5	5680.9	5590.7	5621.1
50°	5993.4	5955.0	6097.1	6109.5	6023.8	5909.8	5985.5	6058.8	6066.7	5948.3	5962.9
52.5°	6313.7	6275.4	6481.8	6559.6	6482.9	6347.5	6427.7	6502.1	6442.3	6288.9	6293.4
55°	6569.8	6538.2	6801.1	7001.9	7027.8	6916.1	6963.4	6961.2	6764.9	6529.1	6537.0
57.5°	6631.9	6627.3	6958.9	7384.2	7655.0	7668.5	7574.9	7335.7	6912.7	6595.8	6575.5
60°	6349.8	6378.1	6833.8	7583.9	8305.9	8605.9	8200.9	7518.5	6744.6	6304.7	6252.8
62.5°	5506.0	5580.5	6129.8	7340.2	8831.5	9684.3	8703.0	7241.0	6054.3	5480.1	5446.2
65°	3945.9	4075.7	4682.5	6264.1	8784.1	10631.9	8630.7	6213.3	4727.7	4065.6	4017.0
67.5°	1790.3	1922.2	2437.8	4288.9	7635.8	10374.7	7617.8	4334.0	2559.5	1928.9	1900.8
70°	648.6	671.2	837.0	1716.9	4879.9	8266.4	5088.6	1729.3	890.0	715.1	706.1
72.5°	392.6	396.0	430.9	614.8	1695.5	5018.7	1767.6	635.1	439.9	390.3	397.1
75°	249.3	247.0	306.8	375.7	601.3	1693.2	630.6	375.7	305.7	278.6	280.8
77.5°	179.4	185.0	220.0	280.8	379.0	574.2	372.3	268.4	220.0	180.5	183.9
80°	134.3	137.7	160.2	218.8	266.2	357.6	236.9	198.5	165.8	112.9	116.2
82.5°	97.0	97.0	105.0	159.1	162.5	192.9	128.6	139.9	109.5	80.1	80.1
85°	57.5	56.4	65.4	94.7	84.6	71.0	58.6	85.7	68.8	49.6	48.5
87.5°	20.3	21.4	20.3	27.1	22.5	19.2	18.0	23.7	19.2	16.9	15.8
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)