

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: P967779

Luminaire Tested: **NAV-SB5A-750-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P967779
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-SB5A-750-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25303.1 lumens
Efficiency: N/A
Efficacy: 178.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G4

Input Watts (W): 141.7
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

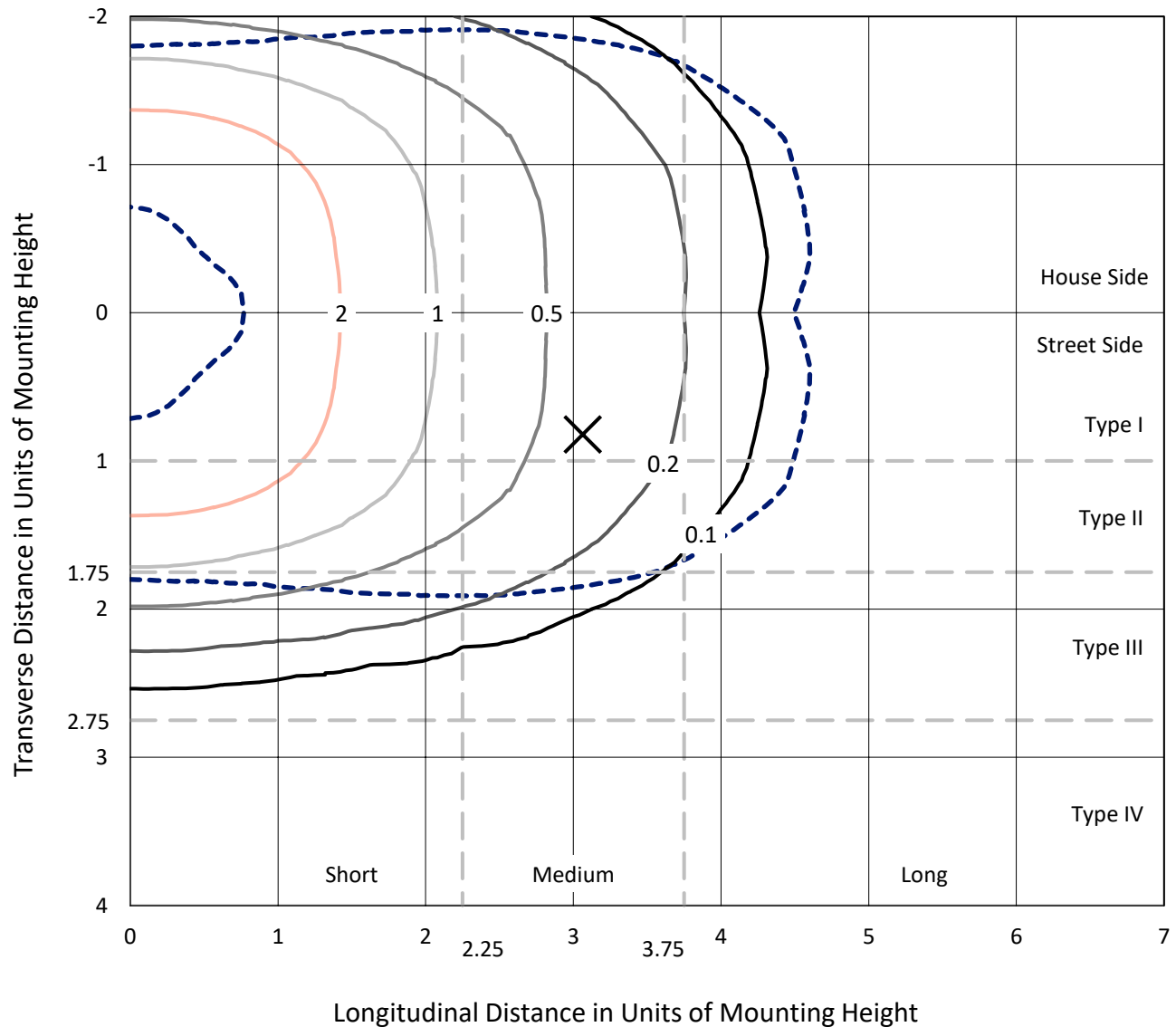


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Iso-Footcandle Lines of Horizontal Illumination

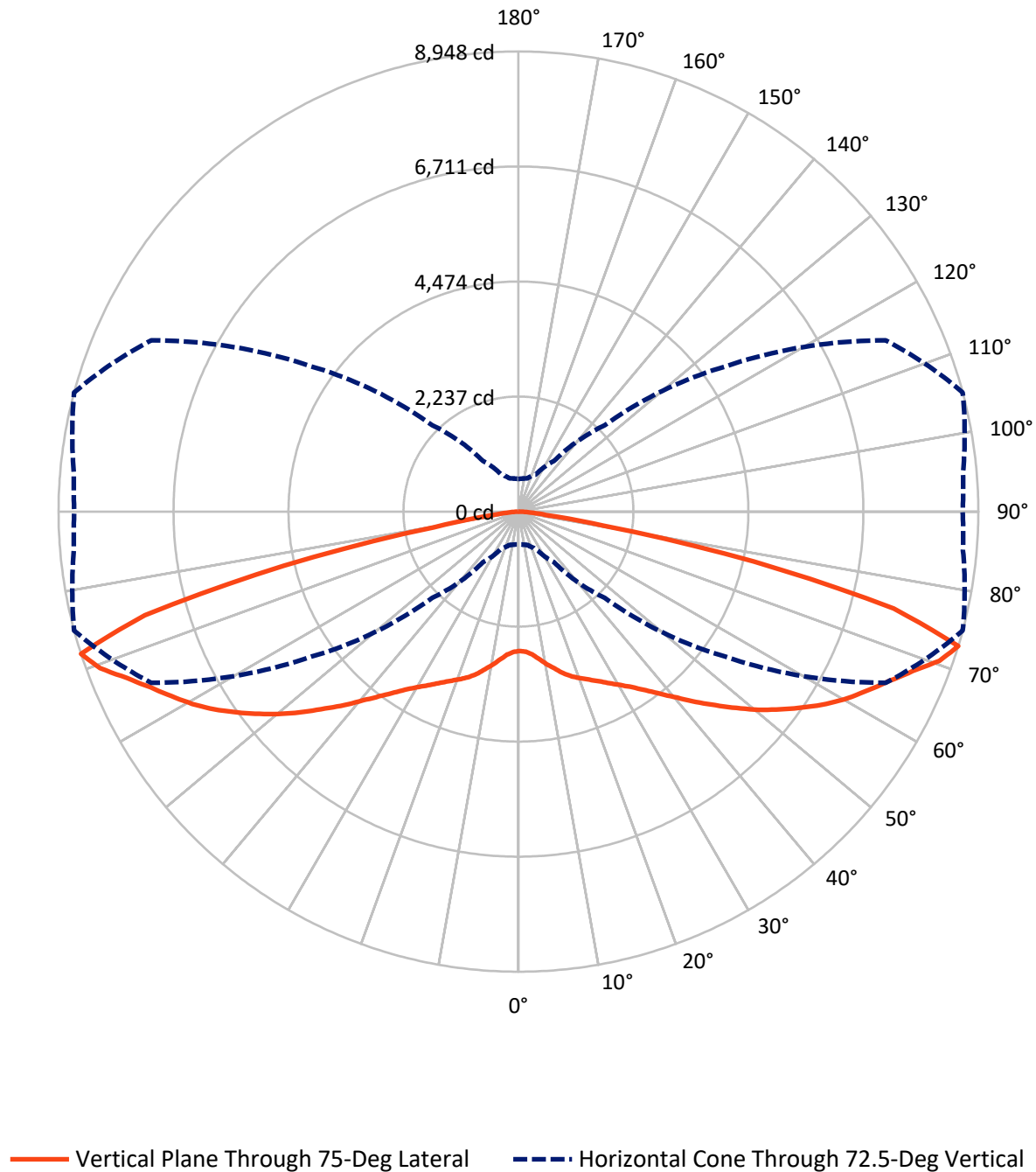
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12651.6	0.0	12651.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12651.6	0.0	12651.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	25303.1	0.0	25303.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.5	1.0
10°-20°	875.7	3.5
20°-30°	1692.1	6.7
30°-40°	2857.2	11.3
40°-50°	4531.2	17.9
50°-60°	6066.8	24.0
60°-70°	5773.7	22.8
70°-80°	3012.8	11.9
80°-90°	228.1	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°	25303.1	100.0
0°-180°	25303.1	100.0

Coefficient of Utilization



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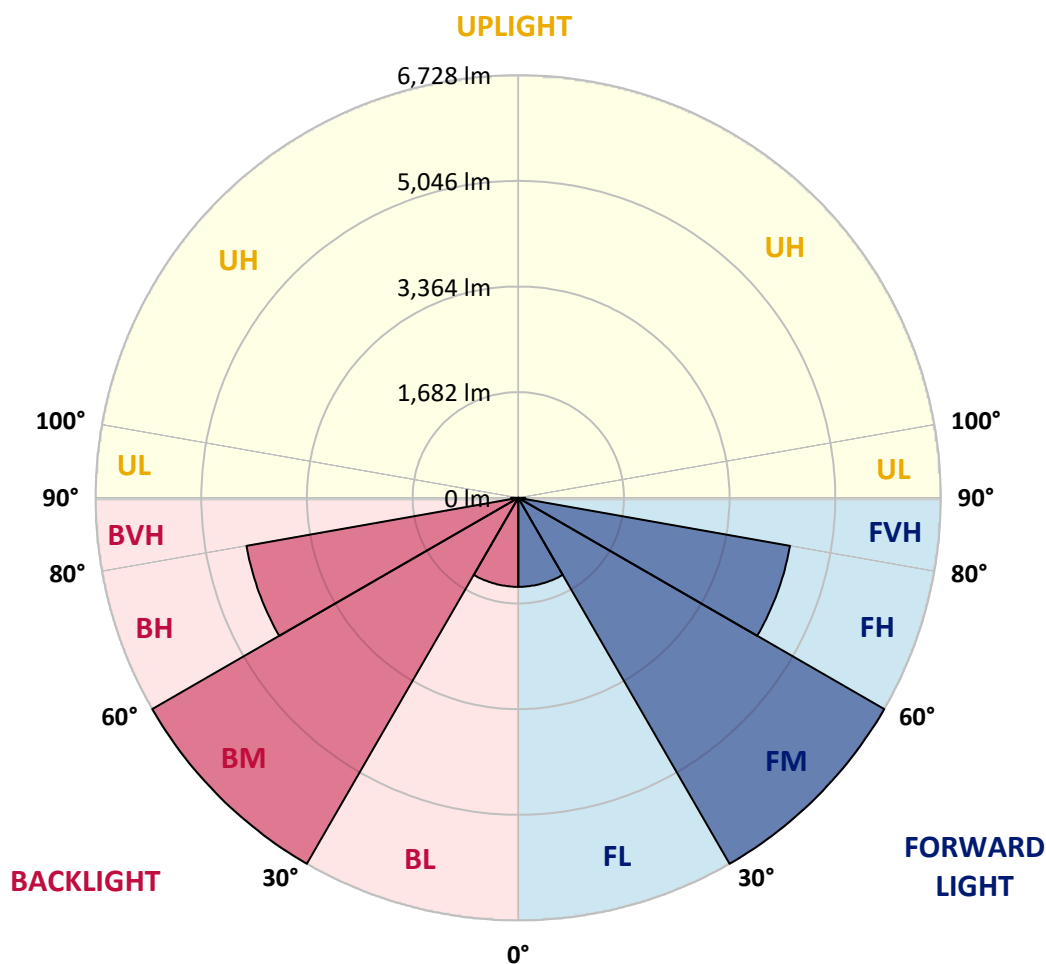
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1416.7	5.6			
FM	(30°-60°)	6727.7	26.6			
FH	(60°-80°)	4393.2	17.4			G2/5000
FVH	(80°-90°)	114.0	0.5			G2/225
BL	(0°-30°)	1416.7	5.6	B3/2500		
BM	(30°-60°)	6727.7	26.6	B4/8500		
BH	(60°-80°)	4393.2	17.4	B4/5000		G4/5000
BVH	(80°-90°)	114.0	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°	2710.4	2710.4	2710.4	2710.4	2710.4	2710.4	2710.4	2710.4	2710.4	2710.4	2710.4
2.5°	2710.4	2707.8	2710.4	2713.0	2711.7	2711.7	2718.2	2722.1	2729.8	2728.5	2727.2
5°	2692.4	2691.0	2701.4	2713.0	2722.1	2737.6	2756.9	2771.2	2789.2	2793.1	2793.1
7.5°	2683.2	2679.5	2697.5	2718.2	2746.6	2785.3	2822.8	2861.6	2892.5	2902.9	2905.5
10°	2689.7	2691.0	2715.6	2754.4	2799.6	2853.8	2906.8	2972.7	3016.6	3026.9	3037.3
12.5°	2719.4	2716.9	2758.2	2820.2	2882.2	2950.7	3012.7	3085.0	3132.9	3157.4	3167.8
15°	2773.8	2768.5	2826.6	2918.4	3008.9	3088.9	3139.4	3207.8	3263.4	3294.4	3306.0
17.5°	2838.3	2840.9	2917.1	3035.9	3154.8	3245.3	3293.1	3328.0	3370.6	3397.7	3410.6
20°	2952.0	2957.1	3042.4	3183.2	3319.0	3422.3	3461.0	3448.1	3459.7	3480.4	3495.9
22.5°	3104.4	3107.1	3202.6	3355.1	3497.2	3610.9	3636.7	3583.7	3551.4	3565.7	3576.0
25°	3281.4	3298.2	3393.9	3550.2	3696.2	3804.7	3816.3	3736.2	3656.1	3660.0	3666.4
27.5°	3497.2	3512.7	3609.5	3764.6	3913.1	4007.5	4006.2	3899.0	3781.4	3751.7	3760.7
30°	3731.0	3747.8	3847.3	4007.5	4145.7	4228.4	4210.3	4082.5	3914.5	3858.9	3865.4
32.5°	4008.8	4019.1	4119.9	4280.1	4408.0	4473.9	4436.4	4278.8	4069.5	4006.2	4021.7
35°	4344.7	4360.1	4435.1	4586.3	4698.7	4752.9	4689.6	4503.5	4268.5	4197.4	4207.7
37.5°	4728.4	4718.1	4803.4	4937.6	5030.7	5064.3	4977.7	4756.8	4495.9	4411.9	4427.4
40°	5128.9	5123.7	5216.7	5345.9	5396.3	5416.9	5289.1	5047.5	4758.0	4667.6	4697.4
42.5°	5491.8	5488.1	5613.3	5756.7	5817.5	5794.2	5632.7	5356.2	5061.7	4958.3	4984.2
45°	5782.5	5777.4	5931.2	6132.7	6251.6	6212.7	5995.7	5697.3	5369.2	5261.9	5286.4
47.5°	6006.1	6008.7	6174.0	6423.4	6631.3	6645.6	6366.5	6044.8	5707.6	5586.2	5622.3
50°	6167.5	6175.3	6352.3	6628.8	6913.0	7038.3	6745.0	6401.4	6057.7	5920.8	5962.1
52.5°	6207.6	6221.9	6435.0	6759.3	7093.8	7332.8	7130.0	6743.8	6389.7	6259.3	6292.9
55°	5994.4	6022.9	6292.9	6748.9	7204.9	7526.7	7468.6	7091.3	6724.4	6590.0	6627.4
57.5°	5504.9	5544.8	5860.1	6455.7	7180.4	7659.7	7730.8	7424.6	7059.0	6929.8	6959.5
60°	4818.8	4866.6	5168.9	5818.7	6834.2	7708.8	7915.6	7748.9	7366.5	7241.1	7268.3
62.5°	3784.0	3846.0	4207.7	4969.9	6103.0	7480.1	8073.1	8042.2	7642.9	7486.6	7504.6
65°	2427.5	2493.4	2874.5	3775.0	5127.6	6780.0	8122.2	8327.6	7934.9	7716.6	7743.7
67.5°	1463.7	1493.4	1682.0	2288.0	3747.8	5724.4	7706.3	8644.1	8276.0	8004.6	8025.3
70°	936.6	953.5	1065.8	1343.6	2118.8	4176.8	6675.3	8703.6	8689.3	8300.4	8297.9
72.5°	635.6	640.8	670.5	795.8	1198.8	2373.2	4923.5	7879.4	8947.7	8681.6	8640.2
75°	465.0	493.5	541.3	563.2	680.8	1185.9	2821.5	5535.8	7540.8	7657.2	7375.5
77.5°	346.2	347.5	413.4	439.2	485.7	631.7	1193.7	3090.3	4681.9	4915.7	4384.7
80°	293.3	277.8	276.4	353.9	365.6	394.0	533.5	1067.1	1676.9	1016.7	768.6
82.5°	244.2	227.3	205.4	276.4	249.4	241.6	231.2	434.1	533.5	262.3	223.4
85°	170.6	162.8	155.0	180.9	142.1	121.5	111.1	202.8	224.8	111.1	98.2
87.5°	73.6	76.3	77.5	80.1	59.4	42.6	42.6	56.9	56.9	44.0	32.3
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)