

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: P964581

Luminaire Tested: **NAV-SB3C-740-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964581
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3C-740-U-5MQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25518.4 lumens
Efficiency: N/A
Efficacy: 171.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

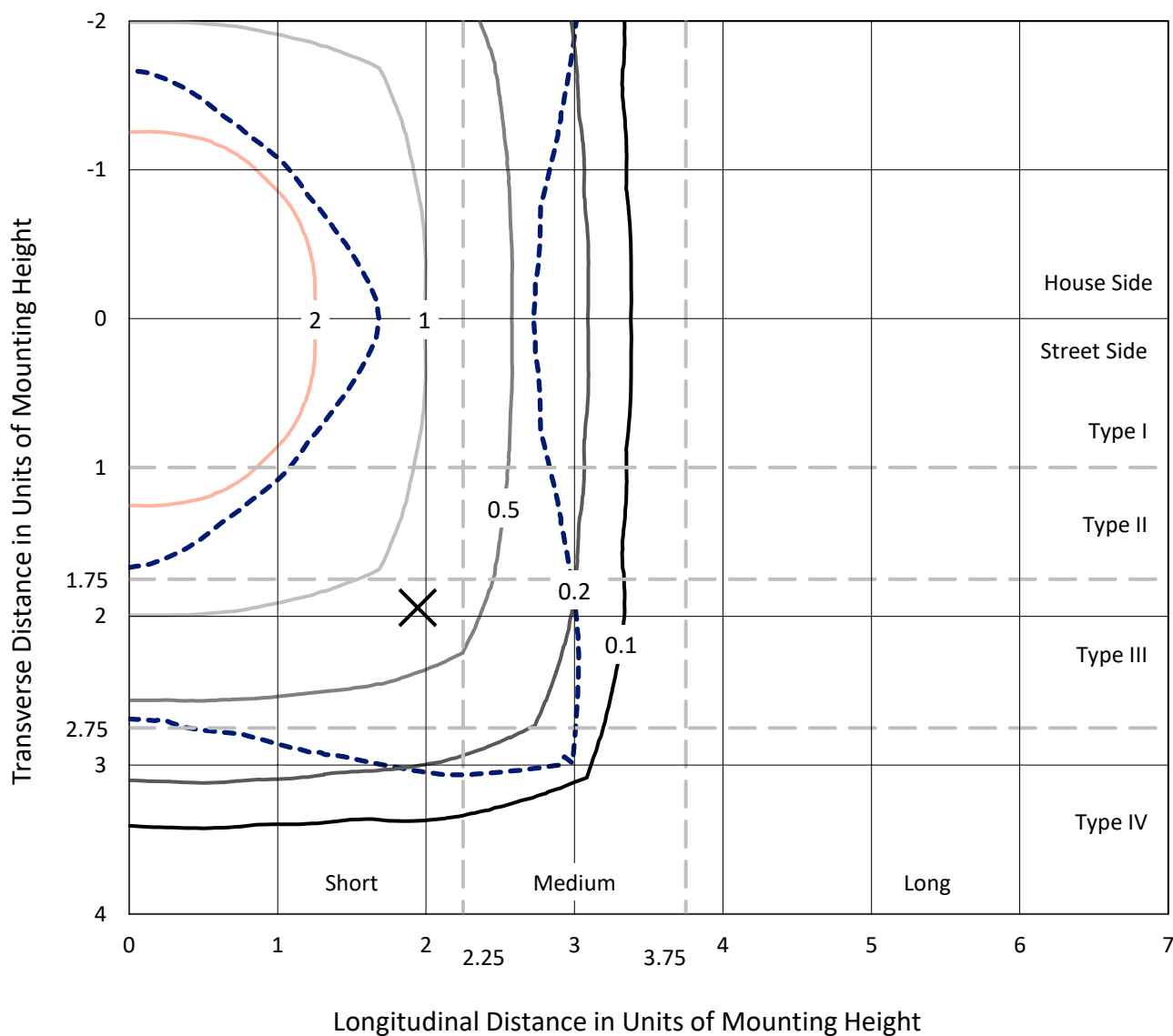
Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

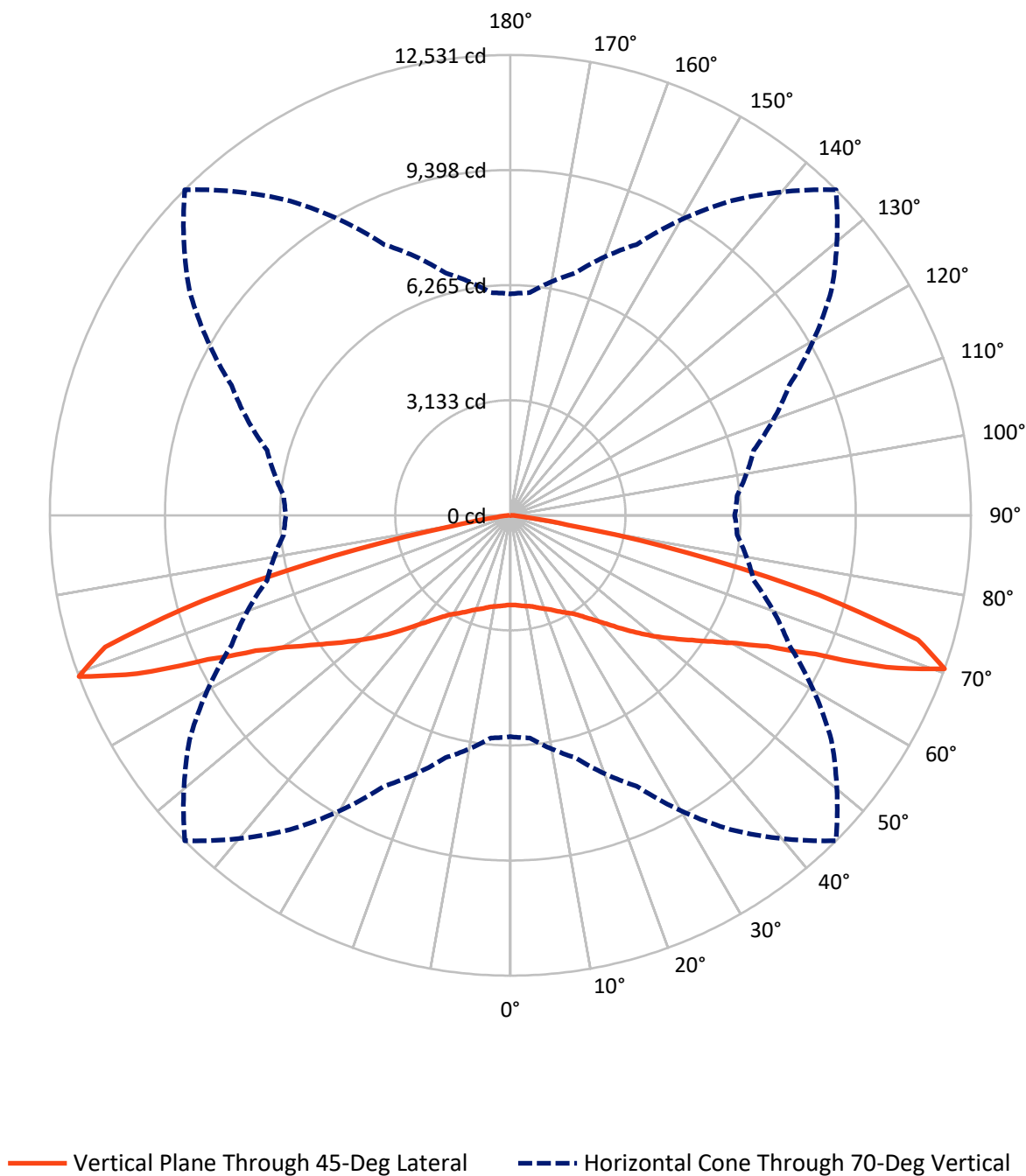


Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12759.2	0.0	12759.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12759.2	0.0	12759.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	25518.4	0.0	25518.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.5	0.9
10°-20°	736.4	2.9
20°-30°	1316.0	5.2
30°-40°	2133.2	8.4
40°-50°	3474.7	13.6
50°-60°	5297.7	20.8
60°-70°	7881.2	30.9
70°-80°	4295.5	16.8
80°-90°	146.3	0.6
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°	25518.4	100.0
0°-180°	25518.4	100.0

Coefficient of Utilization



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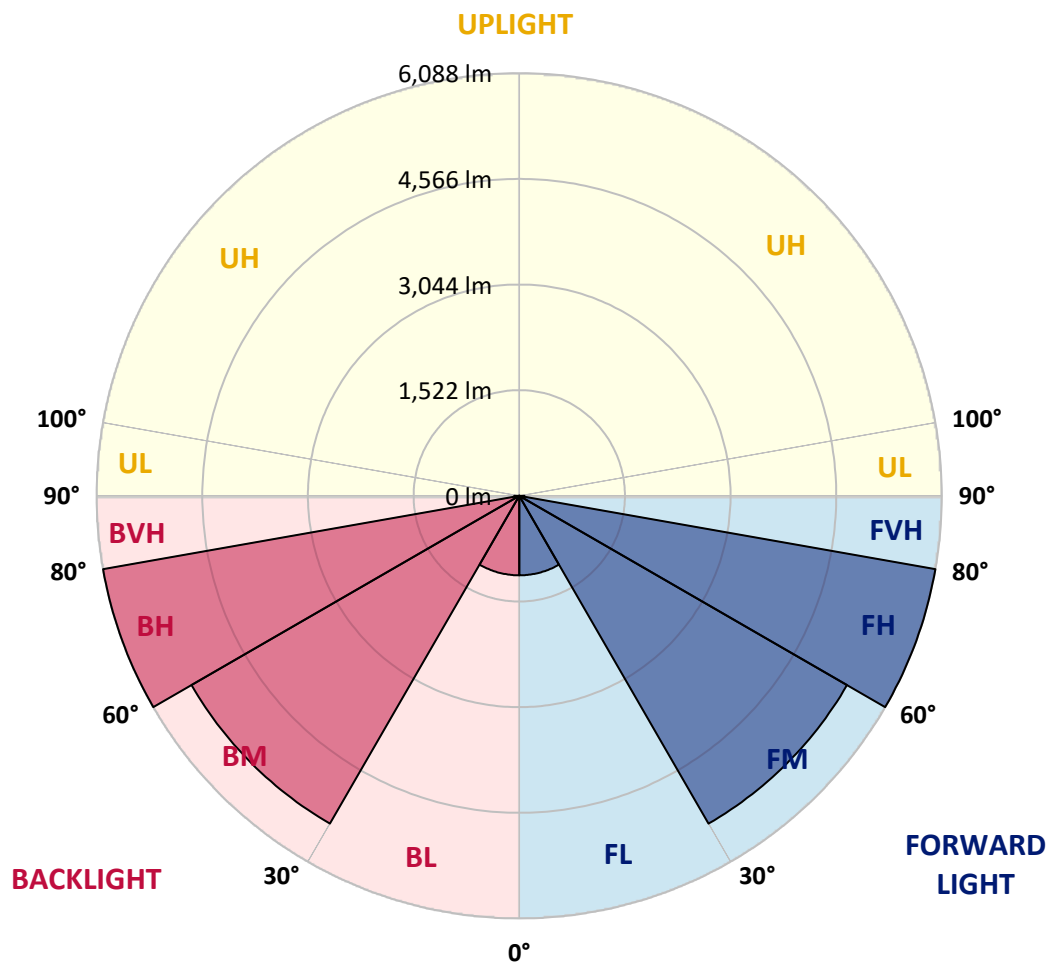
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1144.9	4.5			
FM	(30°-60°)	5452.8	21.4			
FH	(60°-80°)	6088.4	23.9			G3/7500
FVH	(80°-90°)	73.1	0.3			G1/100
BL	(0°-30°)	1144.9	4.5	B3/2500		
BM	(30°-60°)	5452.8	21.4	B4/8500		
BH	(60°-80°)	6088.4	23.9	B5		G3/7500
BVH	(80°-90°)	73.1	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2444.4	2444.4	2444.4	2444.4	2444.4	2444.4	2444.4	2444.4	2444.4	2444.4	2444.4
2.5°	2455.9	2458.5	2453.3	2450.8	2448.2	2444.4	2445.6	2452.1	2457.2	2455.9	2457.2
5°	2476.4	2479.0	2475.2	2473.8	2468.7	2467.5	2467.5	2473.8	2477.7	2475.2	2476.4
7.5°	2499.5	2503.4	2496.9	2495.7	2493.1	2490.5	2489.2	2495.7	2499.5	2499.5	2499.5
10°	2521.3	2525.1	2520.0	2516.2	2513.6	2513.6	2511.0	2516.2	2522.5	2521.3	2521.3
12.5°	2544.4	2546.9	2541.8	2539.2	2539.2	2543.0	2539.2	2541.8	2546.9	2544.4	2543.0
15°	2572.5	2573.8	2572.5	2576.3	2582.8	2595.6	2584.0	2581.5	2584.0	2577.7	2577.7
17.5°	2611.0	2613.5	2618.7	2627.6	2636.6	2659.7	2639.2	2632.7	2632.7	2619.9	2619.9
20°	2658.3	2662.2	2669.9	2685.3	2696.8	2718.6	2698.1	2689.1	2685.3	2668.6	2668.6
22.5°	2708.4	2714.7	2726.3	2746.8	2767.2	2787.7	2767.2	2751.9	2740.3	2718.6	2717.3
25°	2766.0	2773.6	2791.6	2824.9	2853.1	2882.5	2858.2	2827.5	2804.4	2773.6	2772.3
27.5°	2848.0	2856.9	2878.7	2919.7	2955.6	2981.2	2958.1	2918.4	2886.4	2849.2	2848.0
30°	2963.3	2972.2	2997.8	3041.4	3065.8	3082.4	3067.0	3036.3	2997.8	2955.6	2955.6
32.5°	3111.9	3123.4	3151.6	3192.6	3197.7	3200.3	3195.1	3179.8	3151.6	3100.3	3101.6
35°	3300.2	3313.0	3345.0	3378.3	3373.2	3378.3	3370.6	3365.5	3345.0	3286.2	3286.2
37.5°	3530.8	3546.2	3579.5	3605.1	3592.3	3585.9	3587.2	3588.4	3576.9	3511.5	3511.5
40°	3798.5	3819.0	3843.4	3870.3	3848.6	3829.3	3842.1	3852.4	3842.1	3775.5	3775.5
42.5°	4074.0	4103.5	4129.1	4167.5	4149.6	4125.2	4143.2	4154.7	4132.9	4061.2	4066.3
45°	4380.2	4408.4	4441.6	4499.3	4486.5	4460.9	4486.5	4489.1	4451.9	4367.4	4376.3
47.5°	4696.7	4726.1	4776.1	4853.0	4847.8	4819.7	4853.0	4835.0	4787.6	4686.4	4679.9
50°	4996.4	5037.4	5114.2	5221.9	5232.1	5197.6	5242.4	5207.8	5128.4	5001.5	4998.9
52.5°	5278.2	5321.8	5443.6	5589.5	5626.7	5581.8	5642.1	5581.8	5462.7	5300.1	5284.7
55°	5574.2	5622.8	5767.7	5958.5	6032.8	5999.5	6055.9	5965.0	5795.9	5598.5	5571.6
57.5°	5922.7	5952.2	6125.1	6351.8	6477.4	6485.1	6510.7	6356.9	6151.9	5927.8	5897.0
60°	6300.6	6341.6	6530.0	6801.5	7000.1	7064.2	7037.2	6809.2	6571.0	6313.4	6272.4
62.5°	6784.9	6829.7	7055.2	7380.6	7694.5	7853.3	7748.3	7417.7	7123.1	6814.3	6760.5
65°	7185.9	7235.8	7643.2	8223.6	8795.0	9114.0	8850.1	8241.5	7711.2	7275.6	7203.8
67.5°	6895.1	6956.6	7595.9	8661.8	10082.5	11034.4	10131.2	8792.4	7753.4	7162.8	7074.4
70°	6026.5	6084.1	6829.7	8132.7	10445.1	12530.7	10662.9	8372.2	6854.1	6192.9	6104.6
72.5°	4001.0	4186.7	4941.3	6504.3	9326.7	11595.5	9418.8	6372.3	4583.9	3992.0	3862.6
75°	1327.3	1475.9	1990.9	3371.9	6246.8	8672.0	5947.0	2983.8	1577.1	1135.1	1073.6
77.5°	334.4	385.6	531.7	964.7	2491.8	4937.5	2243.2	787.9	429.2	299.8	267.7
80°	162.7	179.4	256.2	321.5	623.9	1569.4	585.5	302.4	202.4	156.3	143.5
82.5°	89.7	90.9	144.7	181.9	231.9	406.1	240.9	176.8	116.5	94.8	94.8
85°	55.0	53.8	76.9	97.4	97.4	144.7	115.3	97.4	66.6	58.9	61.5
87.5°	21.7	21.7	28.2	30.7	26.9	37.1	29.4	32.0	25.6	24.3	25.6
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)