

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: P968241

Luminaire Tested: **NAV-SB5B-735-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968241
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-SB5B-735-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29491.3 lumens
Efficiency: N/A
Efficacy: 161.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

Input Watts (W): 182.7
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



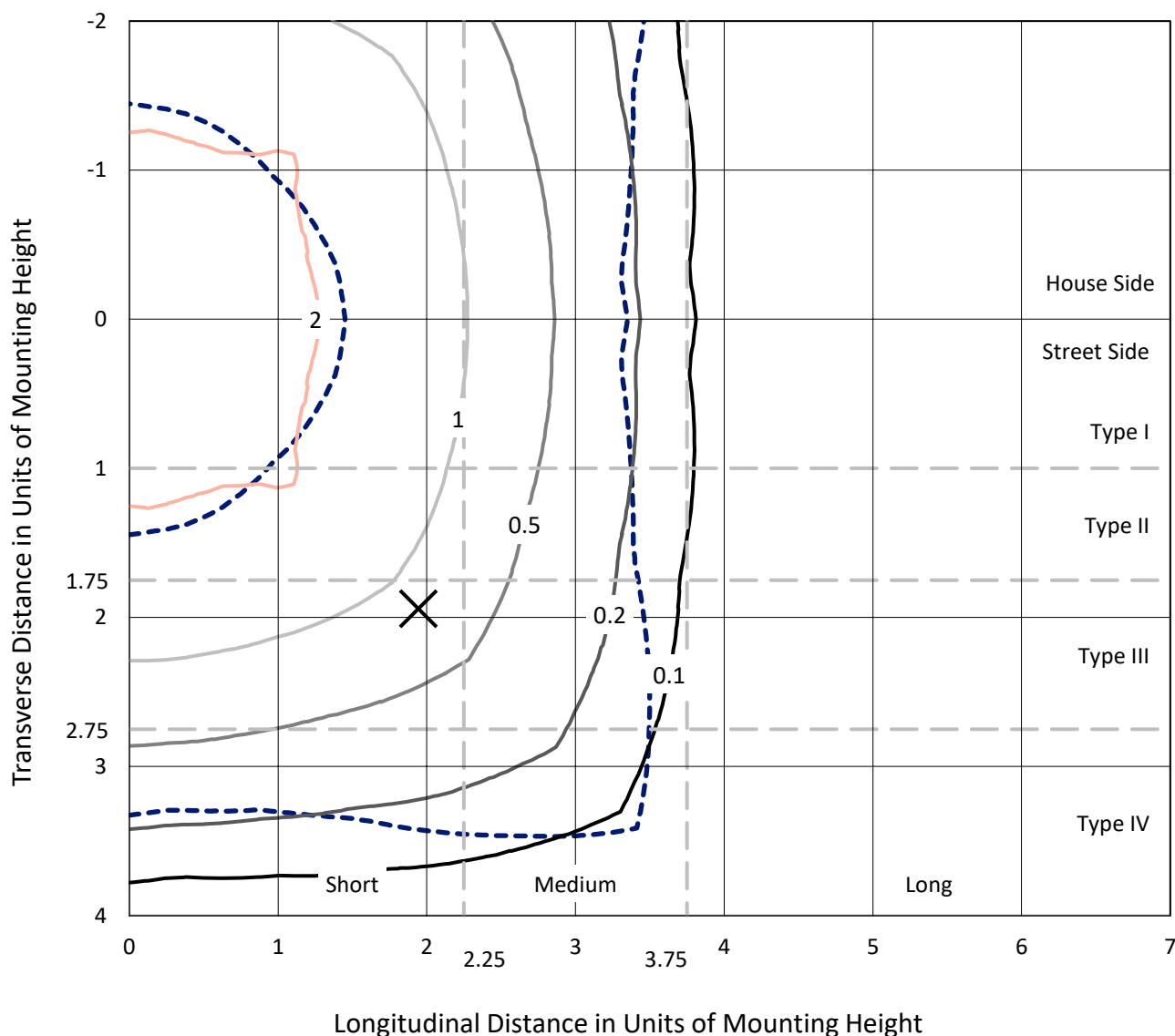
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

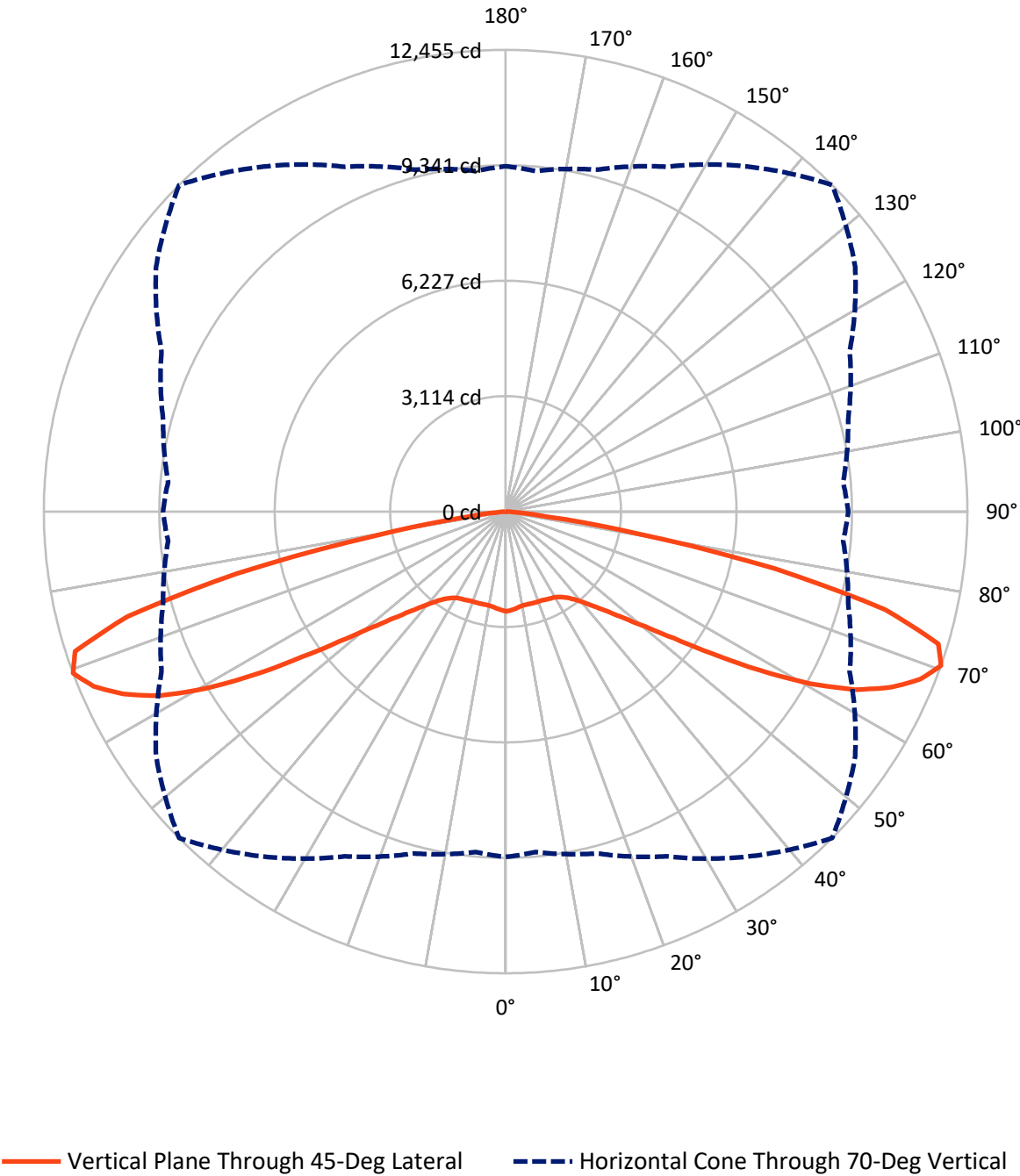


Based on 25 foot mounting height. Maximum calculated value = 4.3 fc

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	14745.7	0.0	14745.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14745.7	0.0	14745.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	29491.3	0.0	29491.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.3	0.8
10°-20°	734.8	2.5
20°-30°	1222.8	4.1
30°-40°	1849.3	6.3
40°-50°	3073.0	10.4
50°-60°	5798.7	19.7
60°-70°	9791.4	33.2
70°-80°	6434.0	21.8
80°-90°	337.1	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°	29491.3	100.0
0°-180°	29491.3	100.0

Coefficient of Utilization



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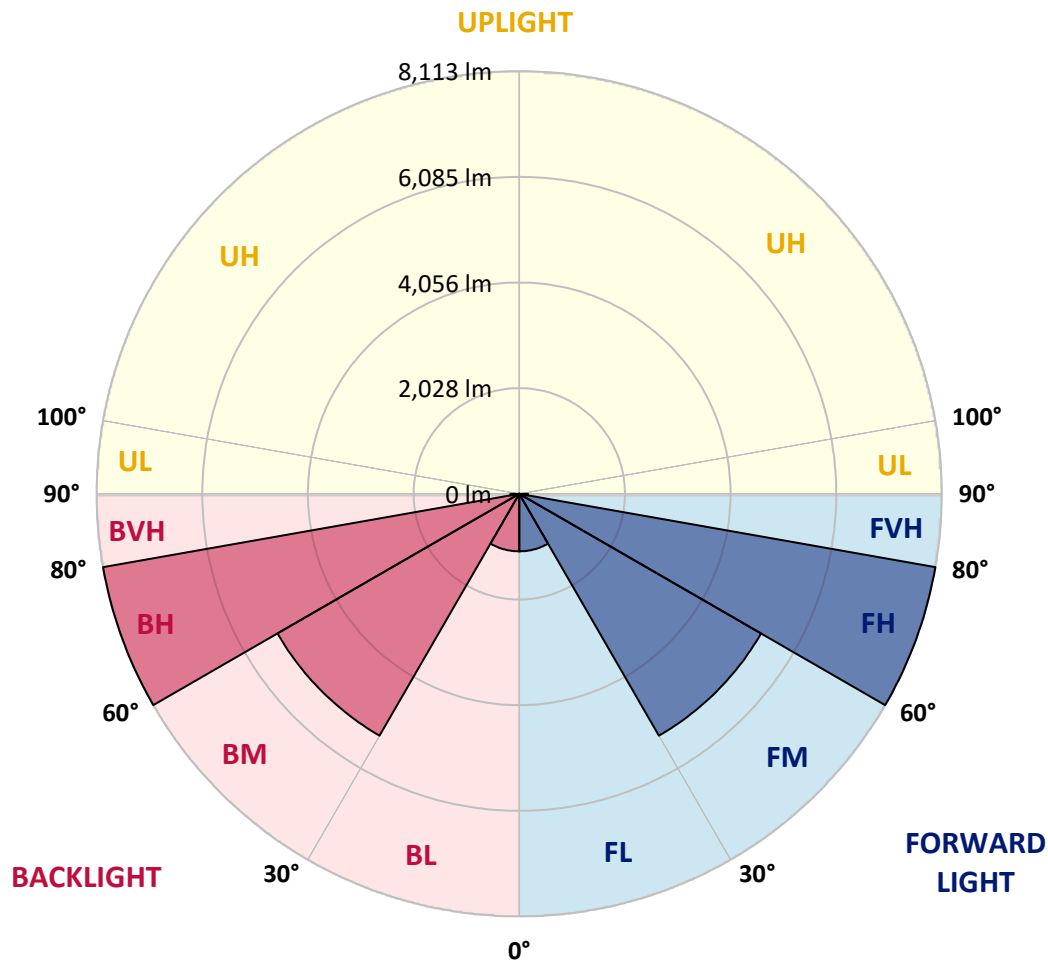
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1103.9	3.7			
FM	(30°-60°)	5360.5	18.2			
FH	(60°-80°)	8112.7	27.5			G4/12000
FVH	(80°-90°)	168.5	0.6			G2/225
BL	(0°-30°)	1103.9	3.7	B3/2500		
BM	(30°-60°)	5360.5	18.2	B4/8500		
BH	(60°-80°)	8112.7	27.5	B5		G4/12000
BVH	(80°-90°)	168.5	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°	2690.2	2690.2	2690.2	2690.2	2690.2	2690.2	2690.2	2690.2	2690.2	2690.2	2690.2
2.5°	2673.3	2681.0	2677.9	2671.8	2671.8	2667.3	2671.8	2674.8	2679.5	2682.5	2681.0
5°	2638.0	2644.2	2642.7	2638.0	2639.6	2635.0	2638.0	2642.7	2645.7	2647.3	2647.3
7.5°	2607.4	2613.5	2610.5	2602.8	2602.8	2598.3	2599.8	2604.3	2608.9	2610.5	2610.5
10°	2599.8	2605.9	2596.7	2584.4	2579.8	2573.7	2575.2	2579.8	2589.0	2593.7	2593.7
12.5°	2602.8	2607.4	2598.3	2579.8	2575.2	2569.1	2569.1	2573.7	2586.0	2592.1	2593.7
15°	2612.0	2616.6	2602.8	2582.9	2578.3	2573.7	2572.1	2578.3	2592.1	2602.8	2604.3
17.5°	2628.9	2633.5	2612.0	2584.4	2578.3	2579.8	2578.3	2582.9	2604.3	2624.3	2624.3
20°	2644.2	2647.3	2618.2	2584.4	2578.3	2579.8	2578.3	2587.5	2615.1	2642.7	2644.2
22.5°	2648.8	2651.9	2624.3	2595.2	2590.6	2592.1	2590.6	2599.8	2625.8	2653.4	2653.4
25°	2650.3	2655.0	2633.5	2610.5	2618.2	2621.2	2618.2	2619.7	2639.6	2664.2	2662.6
27.5°	2673.3	2679.5	2659.6	2639.6	2644.2	2642.7	2647.3	2651.9	2667.3	2691.8	2685.6
30°	2720.9	2725.5	2708.6	2688.7	2685.6	2674.8	2688.7	2704.0	2720.9	2742.3	2737.7
32.5°	2799.1	2808.2	2786.8	2765.3	2751.5	2745.4	2756.1	2782.2	2805.1	2828.2	2819.0
35°	2929.3	2935.5	2915.5	2875.6	2851.1	2851.1	2860.4	2894.1	2930.9	2960.0	2949.2
37.5°	3113.2	3120.9	3085.7	3038.2	3001.4	3001.4	3013.6	3048.9	3104.1	3145.4	3130.1
40°	3337.1	3347.9	3303.4	3254.3	3219.0	3212.9	3228.2	3268.1	3320.2	3372.4	3355.4
42.5°	3606.9	3619.2	3560.8	3518.0	3490.3	3490.3	3498.0	3534.8	3582.4	3646.7	3642.1
45°	3951.8	3973.2	3893.5	3850.6	3824.5	3830.6	3835.2	3867.4	3910.4	3984.0	3980.9
47.5°	4362.6	4384.0	4299.8	4255.3	4250.7	4279.8	4261.4	4284.4	4307.4	4391.7	4367.2
50°	4828.6	4865.4	4807.1	4804.1	4813.2	4866.9	4824.0	4836.3	4810.1	4863.8	4831.6
52.5°	5398.8	5452.5	5441.7	5460.1	5562.8	5673.2	5575.1	5532.1	5434.0	5451.0	5394.2
55°	6090.1	6171.3	6186.7	6297.1	6530.1	6755.4	6546.9	6373.7	6165.3	6126.9	6067.2
57.5°	6876.5	6940.9	7014.5	7239.8	7675.1	8075.2	7675.1	7291.8	6963.8	6885.6	6830.5
60°	7722.7	7802.3	7872.8	8205.5	8852.4	9414.9	8840.1	8231.6	7797.8	7692.0	7600.0
62.5°	8631.6	8734.3	8783.4	9152.8	9907.0	10578.4	9917.7	9180.4	8699.1	8585.6	8493.7
65°	9503.8	9588.2	9643.3	10037.3	10757.8	11430.7	10806.8	10080.2	9585.1	9436.4	9362.9
67.5°	9910.0	9956.0	10090.9	10537.0	11297.3	12065.3	11426.1	10584.6	10031.2	9770.6	9773.6
70°	9315.3	9221.8	9546.7	10261.1	11361.7	12454.7	11508.8	10239.6	9562.1	9139.0	9240.2
72.5°	7198.4	7037.4	7601.5	8823.2	10625.9	12206.3	10699.5	8892.2	7952.6	7094.1	7307.2
75°	3916.5	3734.1	4512.8	6058.0	8473.8	10579.9	8668.4	6231.2	5024.8	3887.4	4140.3
77.5°	1105.2	1036.3	1664.7	2930.9	5096.8	7428.3	5293.0	2995.3	1974.4	1171.2	1301.4
80°	338.8	328.0	444.5	882.9	2164.4	3557.8	2080.1	893.7	565.6	357.1	377.1
82.5°	200.8	184.0	220.8	322.0	551.9	1117.5	536.5	335.7	269.8	180.9	196.2
85°	115.0	107.3	130.3	156.3	185.5	237.6	154.8	159.4	144.1	96.6	101.2
87.5°	47.6	42.9	50.6	49.1	42.9	55.1	41.4	49.1	58.2	38.3	35.3
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)