

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: P964555

Luminaire Tested: **NAV-SB3C-735-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964555
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-SB3C-735-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23717.5 lumens
Efficiency: N/A
Efficacy: 159.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G4

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

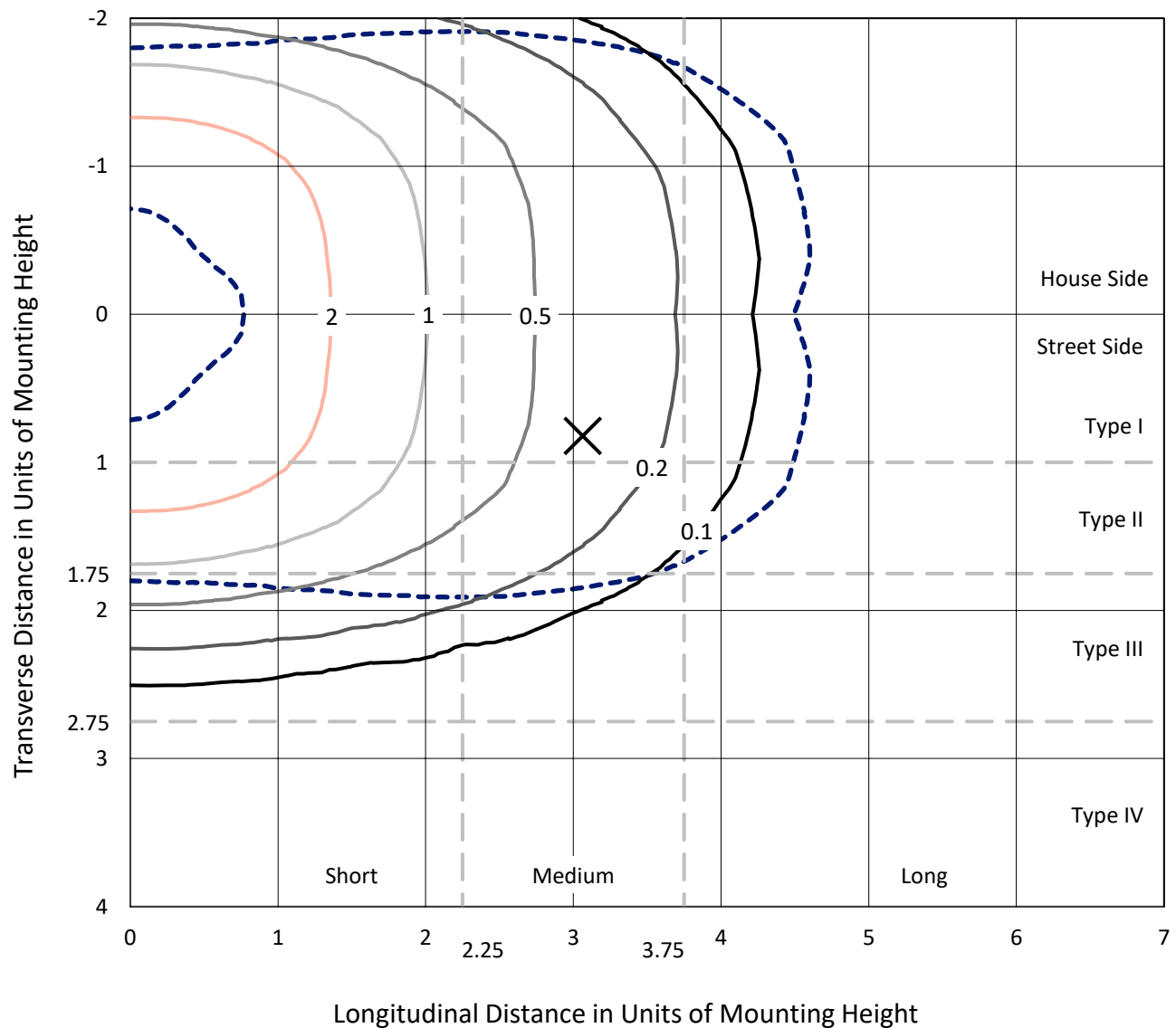


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

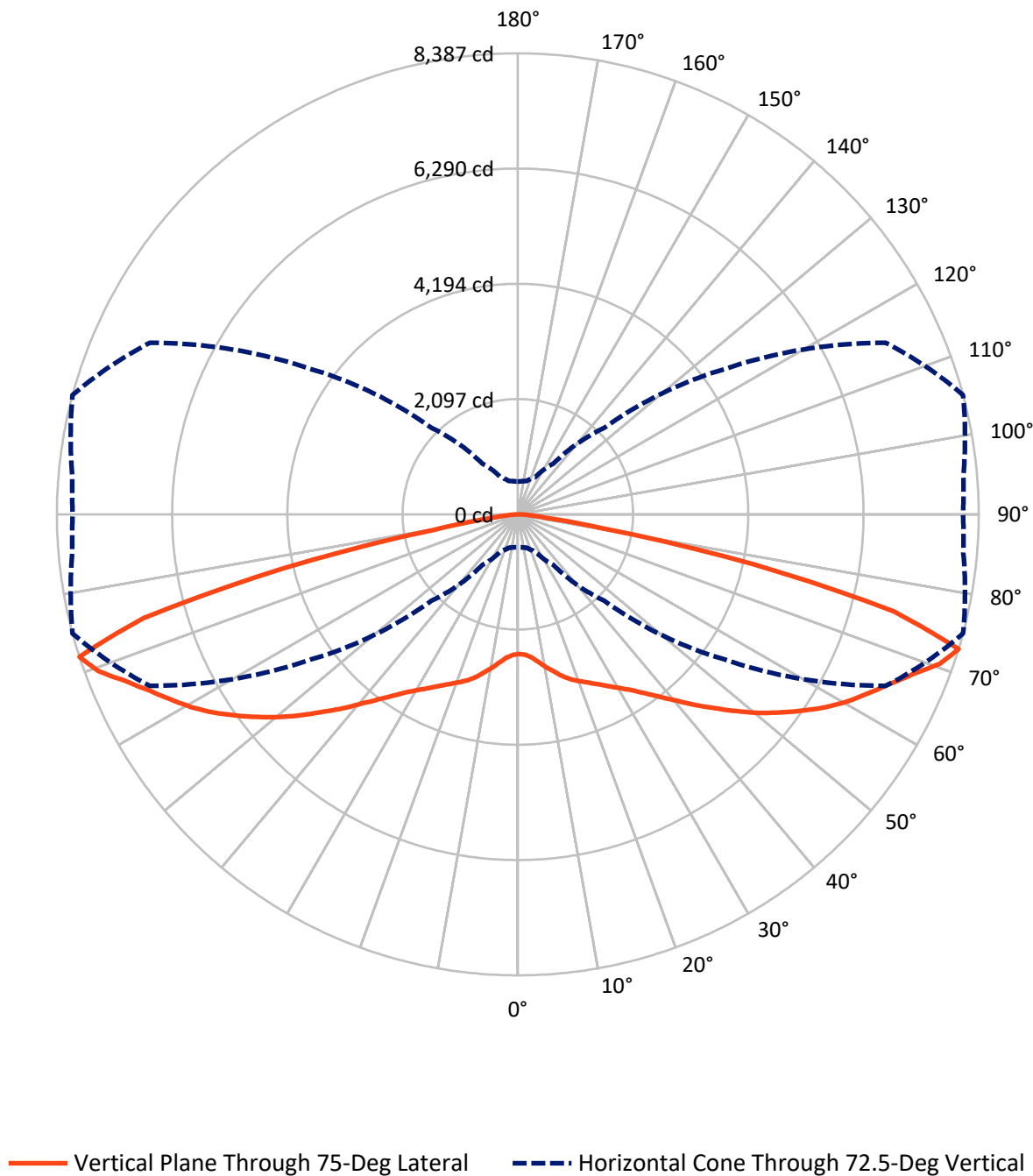


Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11858.7	0.0	11858.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11858.7	0.0	11858.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	23717.5	0.0	23717.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.9	1.0
10°-20°	820.8	3.5
20°-30°	1586.1	6.7
30°-40°	2678.2	11.3
40°-50°	4247.3	17.9
50°-60°	5686.6	24.0
60°-70°	5411.8	22.8
70°-80°	2824.0	11.9
80°-90°	213.8	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°	23717.5	100.0
0°-180°	23717.5	100.0

Coefficient of Utilization



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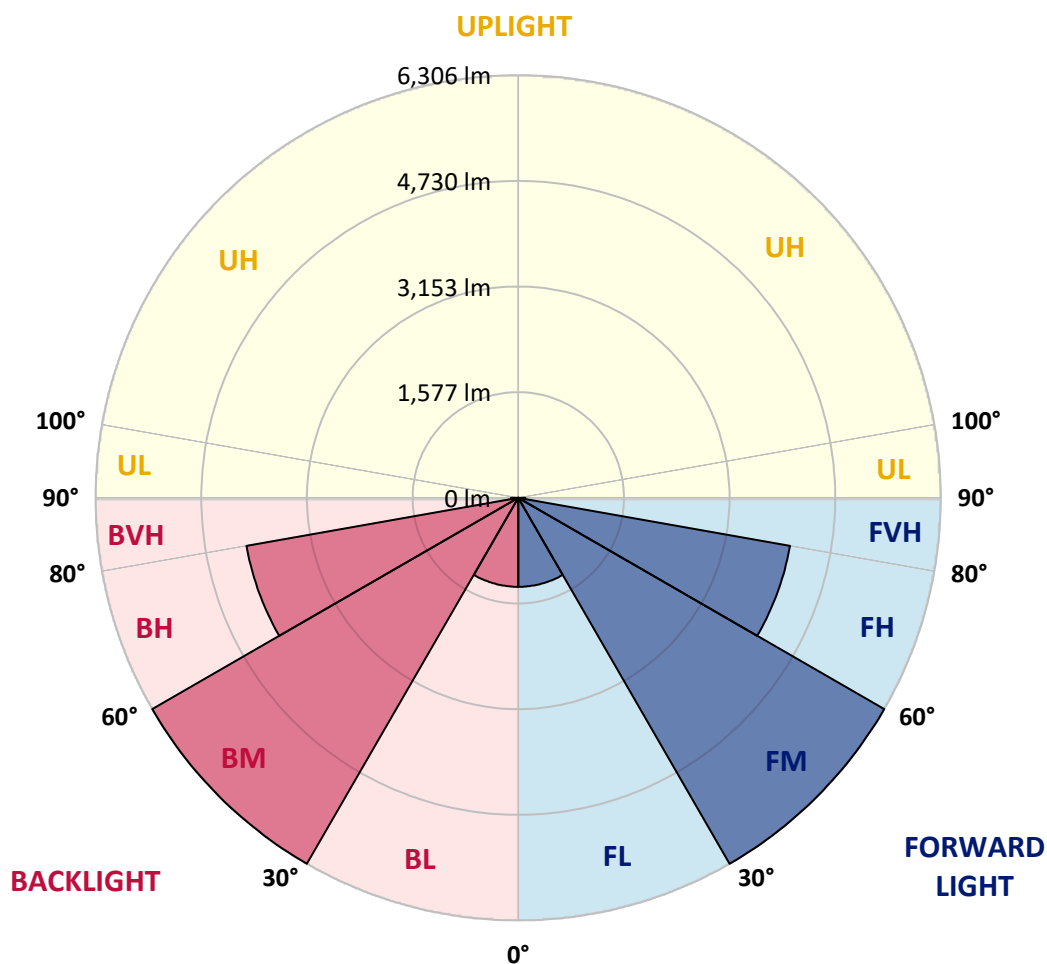
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1327.9	5.6			
FM	(30°-60°)	6306.0	26.6			
FH	(60°-80°)	4117.9	17.4			G2/5000
FVH	(80°-90°)	106.9	0.5			G2/225
BL	(0°-30°)	1327.9	5.6	B3/2500		
BM	(30°-60°)	6306.0	26.6	B4/8500		
BH	(60°-80°)	4117.9	17.4	B4/5000		G4/5000
BVH	(80°-90°)	106.9	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°	2540.6	2540.6	2540.6	2540.6	2540.6	2540.6	2540.6	2540.6	2540.6	2540.6	2540.6
2.5°	2540.6	2538.1	2540.6	2543.0	2541.8	2541.8	2547.8	2551.4	2558.7	2557.5	2556.4
5°	2523.7	2522.4	2532.1	2543.0	2551.4	2566.0	2584.1	2597.5	2614.5	2618.1	2618.1
7.5°	2515.1	2511.5	2528.5	2547.8	2574.5	2610.8	2645.9	2682.2	2711.3	2721.0	2723.4
10°	2521.2	2522.4	2545.4	2581.8	2624.1	2674.9	2724.7	2786.4	2827.6	2837.2	2846.9
12.5°	2549.1	2546.6	2585.4	2643.5	2701.6	2765.8	2824.0	2891.7	2936.5	2959.6	2969.2
15°	2599.9	2595.1	2649.5	2735.5	2820.3	2895.4	2942.6	3006.7	3058.8	3087.9	3098.8
17.5°	2660.5	2662.8	2734.3	2845.7	2957.1	3041.9	3086.7	3119.4	3159.4	3184.8	3196.9
20°	2767.0	2771.9	2851.8	2983.8	3110.9	3207.8	3244.1	3232.0	3242.9	3262.3	3276.8
22.5°	2909.9	2912.3	3001.9	3144.8	3278.1	3384.6	3408.8	3359.1	3328.9	3342.2	3351.9
25°	3075.8	3091.5	3181.2	3327.7	3464.5	3566.3	3577.1	3502.0	3427.0	3430.6	3436.6
27.5°	3278.1	3292.6	3383.4	3528.7	3668.0	3756.3	3755.2	3654.6	3544.4	3516.6	3525.1
30°	3497.2	3513.0	3606.2	3756.3	3885.9	3963.5	3946.5	3826.6	3669.2	3617.1	3623.2
32.5°	3757.5	3767.3	3861.7	4011.8	4131.8	4193.5	4158.4	4010.6	3814.4	3755.2	3769.6
35°	4072.4	4087.0	4157.2	4298.8	4404.2	4455.1	4395.7	4221.4	4001.0	3934.4	3944.1
37.5°	4432.1	4422.4	4502.3	4628.3	4715.4	4746.9	4665.8	4458.8	4214.1	4135.4	4149.9
40°	4807.5	4802.6	4889.8	5010.9	5058.2	5077.5	4957.6	4731.2	4459.9	4375.1	4403.0
42.5°	5147.8	5144.1	5261.5	5396.0	5452.9	5431.1	5279.8	5020.6	4744.5	4647.7	4671.8
45°	5420.2	5415.4	5559.5	5748.4	5859.7	5823.4	5620.0	5340.2	5032.6	4932.2	4955.2
47.5°	5629.7	5632.1	5787.2	6020.8	6215.8	6229.1	5967.5	5666.0	5350.0	5236.1	5270.0
50°	5781.1	5788.3	5954.2	6213.3	6479.7	6597.2	6322.3	6000.2	5678.1	5549.8	5588.5
52.5°	5818.6	5831.9	6031.7	6335.6	6649.3	6873.3	6683.2	6321.2	5989.4	5867.0	5898.6
55°	5618.7	5645.4	5898.6	6326.0	6753.4	7055.0	7000.4	6646.9	6302.9	6177.1	6212.1
57.5°	5159.8	5197.4	5492.9	6051.1	6730.5	7179.7	7246.3	6959.3	6616.6	6495.5	6523.4
60°	4516.9	4561.7	4845.0	5454.1	6405.9	7225.7	7419.5	7263.3	6904.8	6787.3	6812.8
62.5°	3546.9	3605.0	3944.1	4658.5	5720.5	7011.4	7567.2	7538.2	7163.9	7017.5	7034.4
65°	2275.4	2337.1	2694.3	3538.4	4806.2	6355.0	7613.2	7805.8	7437.6	7233.0	7258.4
67.5°	1372.0	1399.8	1576.7	2144.6	3513.0	5365.7	7223.3	8102.4	7757.3	7503.0	7522.4
70°	877.9	893.7	999.1	1259.4	1985.9	3915.0	6257.0	8158.2	8144.9	7780.4	7777.9
72.5°	595.8	600.6	628.5	745.9	1123.7	2224.6	4615.0	7385.5	8387.1	8137.6	8098.8
75°	435.9	462.6	507.4	528.0	638.2	1111.6	2644.7	5188.9	7068.3	7177.3	6913.3
77.5°	324.5	325.7	387.6	411.7	455.3	592.1	1118.9	2896.5	4388.4	4607.7	4109.9
80°	274.9	260.3	259.1	331.8	342.7	369.3	500.1	1000.2	1571.8	953.0	720.5
82.5°	228.9	213.1	192.5	259.1	233.7	226.4	216.8	406.9	500.1	245.8	209.5
85°	159.8	152.6	145.3	169.5	133.2	113.9	104.1	190.1	210.7	104.1	92.0
87.5°	69.0	71.4	72.7	75.0	55.7	40.0	40.0	53.3	53.3	41.2	30.2
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)