

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: P965265

Luminaire Tested: **NAV-SB3D-835-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P965265
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-SB3D-835-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29361.1 lumens
Efficiency: N/A
Efficacy: 134.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

Input Watts (W): 218.1
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

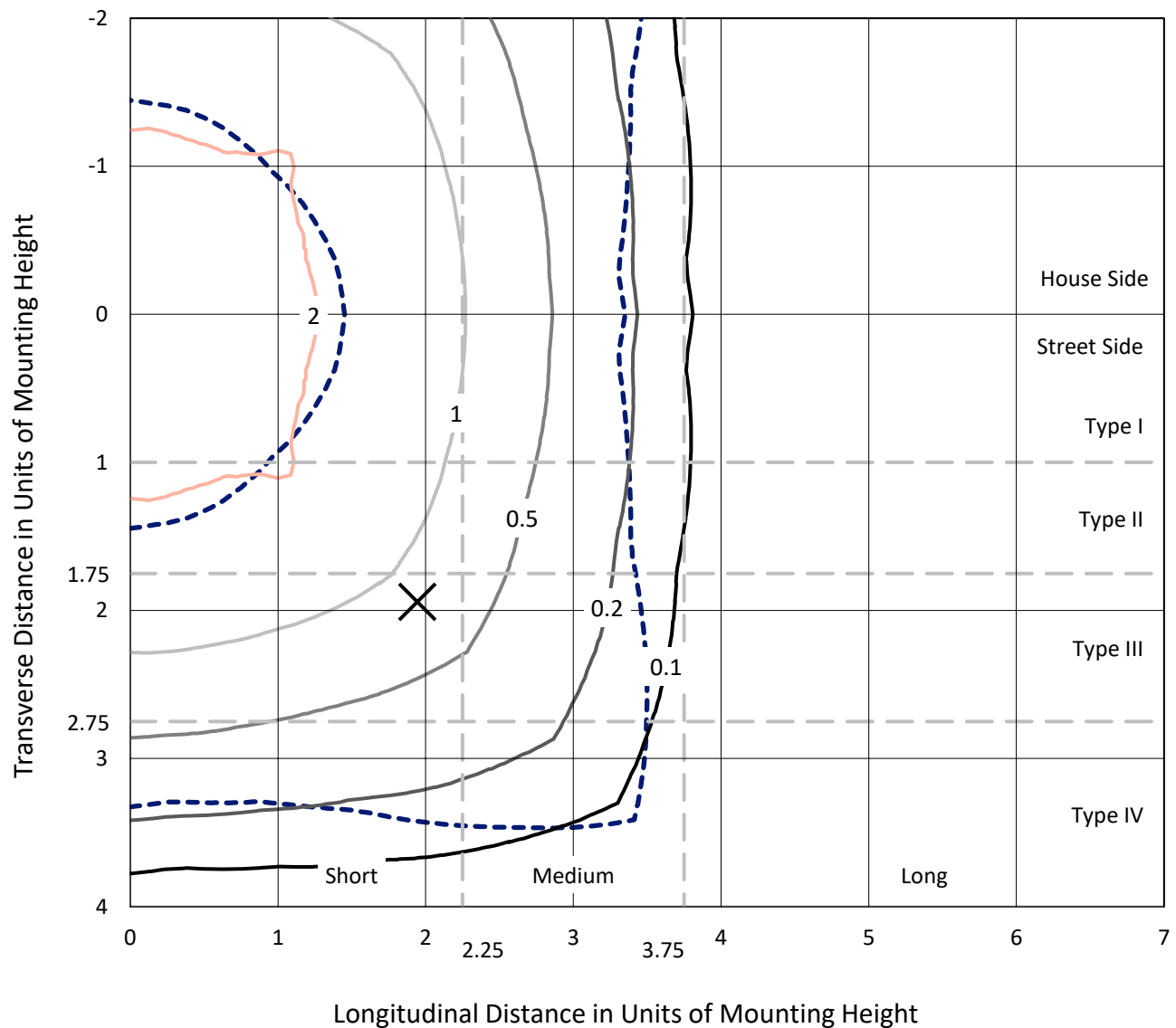


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Iso-Footcandle Lines of Horizontal Illumination

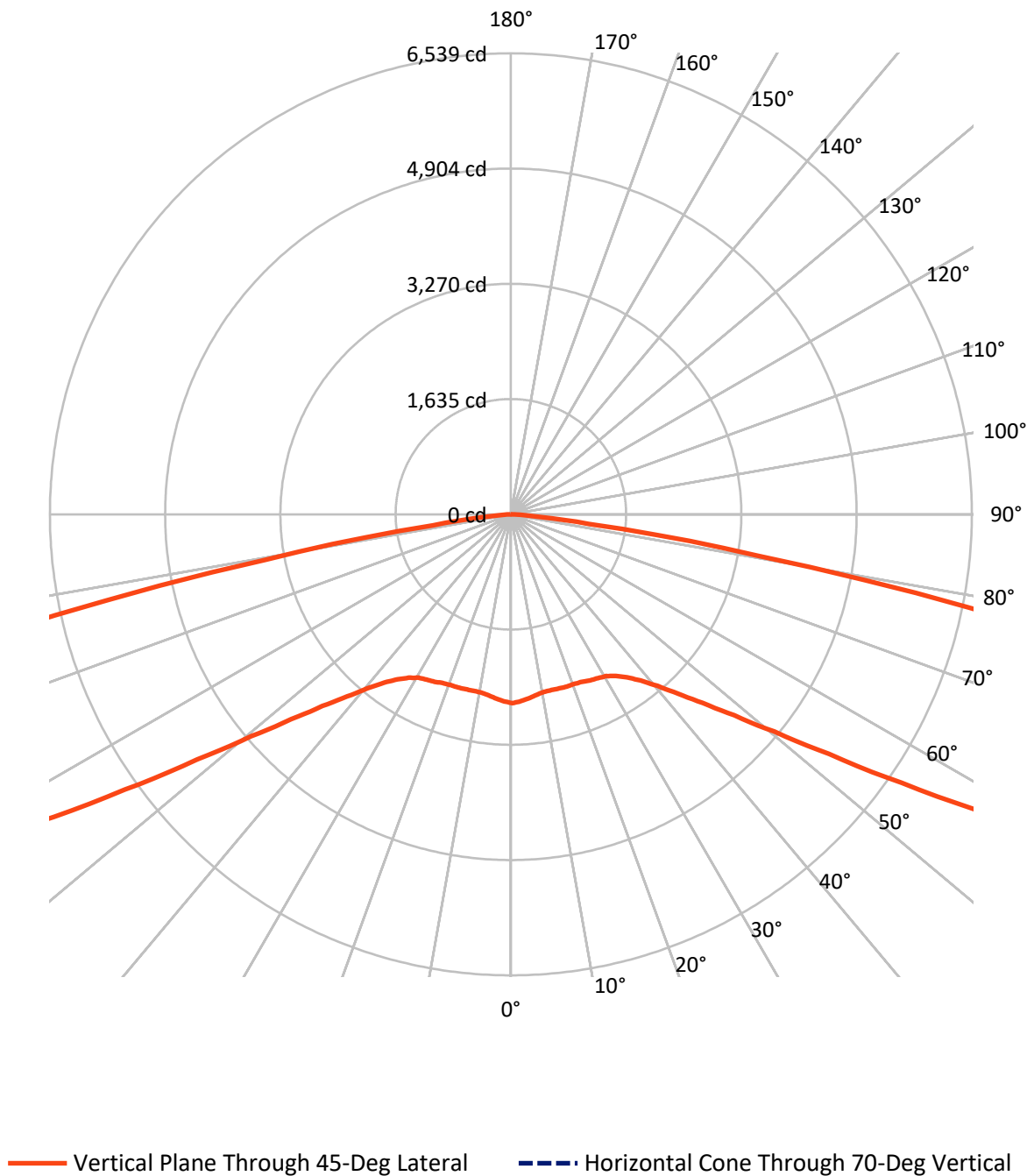
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 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	14680.6	0.0	14680.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14680.6	0.0	14680.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	29361.1	0.0	29361.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.1	0.8
10°-20°	731.6	2.5
20°-30°	1217.4	4.1
30°-40°	1841.1	6.3
40°-50°	3059.5	10.4
50°-60°	5773.1	19.7
60°-70°	9748.2	33.2
70°-80°	6405.5	21.8
80°-90°	335.6	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°	29361.1	100.0
0°-180°	29361.1	100.0

Coefficient of Utilization



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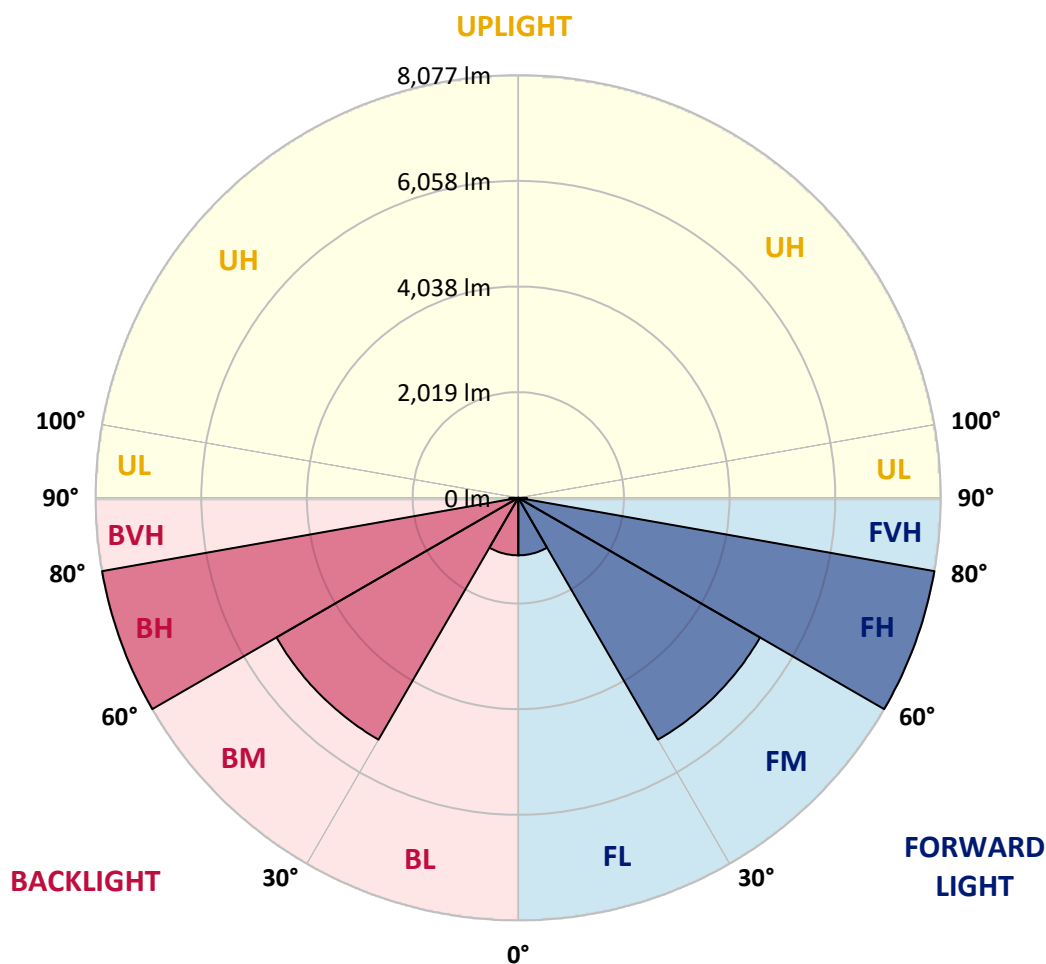
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1099.1	3.7			
FM	(30°-60°)	5336.9	18.2			
FH	(60°-80°)	8076.9	27.5			G4/12000
FVH	(80°-90°)	167.8	0.6			G2/225
BL	(0°-30°)	1099.1	3.7	B3/2500		
BM	(30°-60°)	5336.9	18.2	B4/8500		
BH	(60°-80°)	8076.9	27.5	B5		G4/12000
BVH	(80°-90°)	167.8	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°	2678.3	2678.3	2678.3	2678.3	2678.3	2678.3	2678.3	2678.3	2678.3	2678.3	2678.3
2.5°	2661.5	2669.2	2666.1	2660.0	2660.0	2655.5	2660.0	2663.1	2667.7	2670.7	2669.2
5°	2626.5	2632.5	2631.0	2626.5	2628.0	2623.4	2626.5	2631.0	2634.0	2635.6	2635.6
7.5°	2595.9	2602.1	2599.0	2591.3	2591.3	2586.8	2588.3	2592.8	2597.5	2599.0	2599.0
10°	2588.3	2594.4	2585.3	2573.1	2568.4	2562.3	2563.8	2568.4	2577.6	2582.2	2582.2
12.5°	2591.3	2595.9	2586.8	2568.4	2563.8	2557.8	2557.8	2562.3	2574.6	2580.6	2582.2
15°	2600.5	2605.0	2591.3	2571.5	2566.9	2562.3	2560.9	2566.9	2580.6	2591.3	2592.8
17.5°	2617.2	2621.8	2600.5	2573.1	2566.9	2568.4	2566.9	2571.5	2592.8	2612.7	2612.7
20°	2632.5	2635.6	2606.6	2573.1	2566.9	2568.4	2566.9	2576.0	2603.5	2631.0	2632.5
22.5°	2637.1	2640.2	2612.7	2583.7	2579.1	2580.6	2579.1	2588.3	2614.3	2641.7	2641.7
25°	2638.7	2643.3	2621.8	2599.0	2606.6	2609.6	2606.6	2608.1	2628.0	2652.4	2650.9
27.5°	2661.5	2667.7	2647.8	2628.0	2632.5	2631.0	2635.6	2640.2	2655.5	2679.9	2673.7
30°	2708.9	2713.4	2696.7	2676.8	2673.7	2663.1	2676.8	2692.1	2708.9	2730.2	2725.7
32.5°	2786.7	2795.8	2774.5	2753.1	2739.4	2733.3	2743.9	2769.9	2792.8	2815.7	2806.6
35°	2916.4	2922.5	2902.7	2863.0	2838.5	2838.5	2847.8	2881.3	2918.0	2946.9	2936.2
37.5°	3099.5	3107.2	3072.0	3024.8	2988.1	2988.1	3000.4	3035.4	3090.4	3131.6	3116.3
40°	3322.3	3333.0	3288.8	3239.9	3204.9	3198.7	3214.0	3253.7	3305.5	3357.5	3340.7
42.5°	3591.0	3603.2	3545.2	3502.4	3475.0	3475.0	3482.5	3519.2	3566.5	3630.7	3626.0
45°	3934.4	3955.7	3876.3	3833.6	3807.7	3813.7	3818.3	3850.4	3893.2	3966.3	3963.3
47.5°	4343.3	4364.7	4280.7	4236.5	4231.9	4260.9	4242.6	4265.4	4288.4	4372.3	4347.8
50°	4807.2	4843.8	4785.9	4782.9	4792.0	4845.4	4802.6	4814.8	4788.9	4842.3	4810.3
52.5°	5375.0	5428.4	5417.7	5436.0	5538.3	5648.2	5550.5	5507.7	5410.1	5426.9	5370.4
55°	6063.3	6144.2	6159.4	6269.3	6501.3	6725.5	6518.0	6345.6	6138.0	6099.9	6040.3
57.5°	6846.2	6910.2	6983.5	7207.8	7641.3	8039.6	7641.3	7259.7	6933.1	6855.3	6800.4
60°	7688.5	7767.9	7838.1	8169.2	8813.3	9373.4	8801.1	8195.2	7763.4	7658.0	7566.4
62.5°	8593.5	8695.8	8744.6	9112.5	9863.3	10531.7	9873.9	9139.9	8660.6	8547.8	8456.1
65°	9461.9	9545.8	9600.8	9992.9	10710.2	11380.2	10759.1	10035.7	9542.8	9394.7	9321.5
67.5°	9866.3	9912.1	10046.4	10490.5	11247.4	12012.0	11375.7	10537.8	9986.9	9727.5	9730.5
70°	9274.2	9181.1	9504.6	10215.8	11311.5	12399.6	11458.1	10194.4	9519.9	9098.7	9199.4
72.5°	7166.6	7006.4	7568.0	8784.2	10579.0	12152.4	10652.2	8852.9	7917.5	7062.9	7274.9
75°	3899.2	3717.6	4492.9	6031.2	8436.4	10533.2	8630.2	6203.6	5002.6	3870.2	4122.0
77.5°	1100.3	1031.7	1657.3	2918.0	5074.4	7395.6	5269.6	2982.0	1965.6	1165.9	1295.7
80°	337.2	326.6	442.6	879.0	2154.9	3542.1	2070.9	889.7	563.1	355.6	375.5
82.5°	199.9	183.2	219.8	320.5	549.4	1112.5	534.1	334.3	268.5	180.1	195.4
85°	114.5	106.8	129.8	155.7	184.7	236.6	154.2	158.7	143.5	96.1	100.8
87.5°	47.4	42.7	50.3	48.8	42.7	54.9	41.2	48.8	58.0	38.1	35.1
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)