

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: P965234

Luminaire Tested: **NAV-SB3D-830-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P965234
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-830-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28443.7 lumens
Efficiency: N/A
Efficacy: 130.4 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

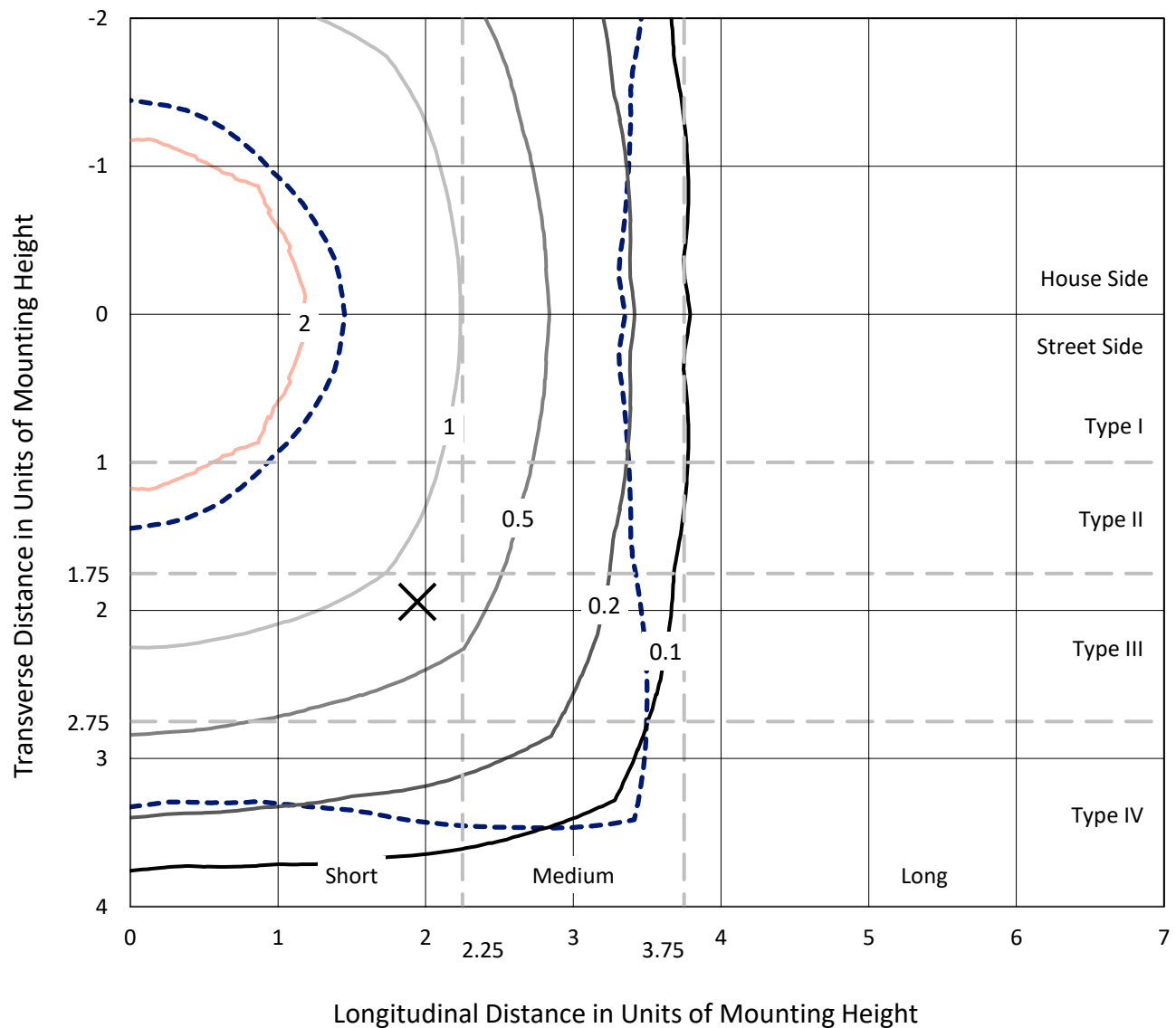


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

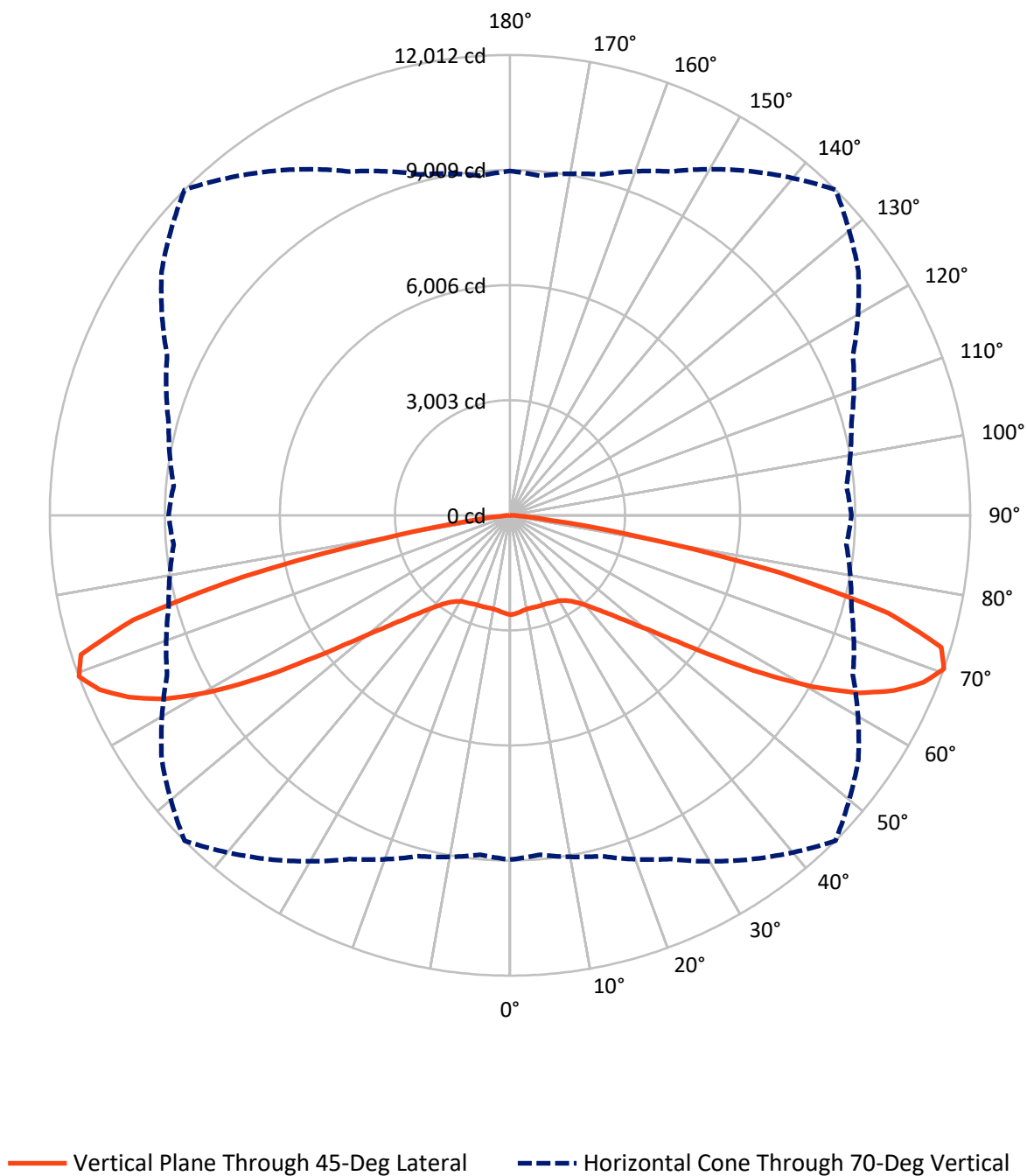


Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14221.9	0.0	14221.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14221.9	0.0	14221.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	28443.7	0.0	28443.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.4	0.8
10°-20°	708.7	2.5
20°-30°	1179.4	4.1
30°-40°	1783.6	6.3
40°-50°	2963.9	10.4
50°-60°	5592.7	19.7
60°-70°	9443.6	33.2
70°-80°	6205.4	21.8
80°-90°	325.1	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°	28443.7	100.0
0°-180°	28443.7	100.0

Coefficient of Utilization



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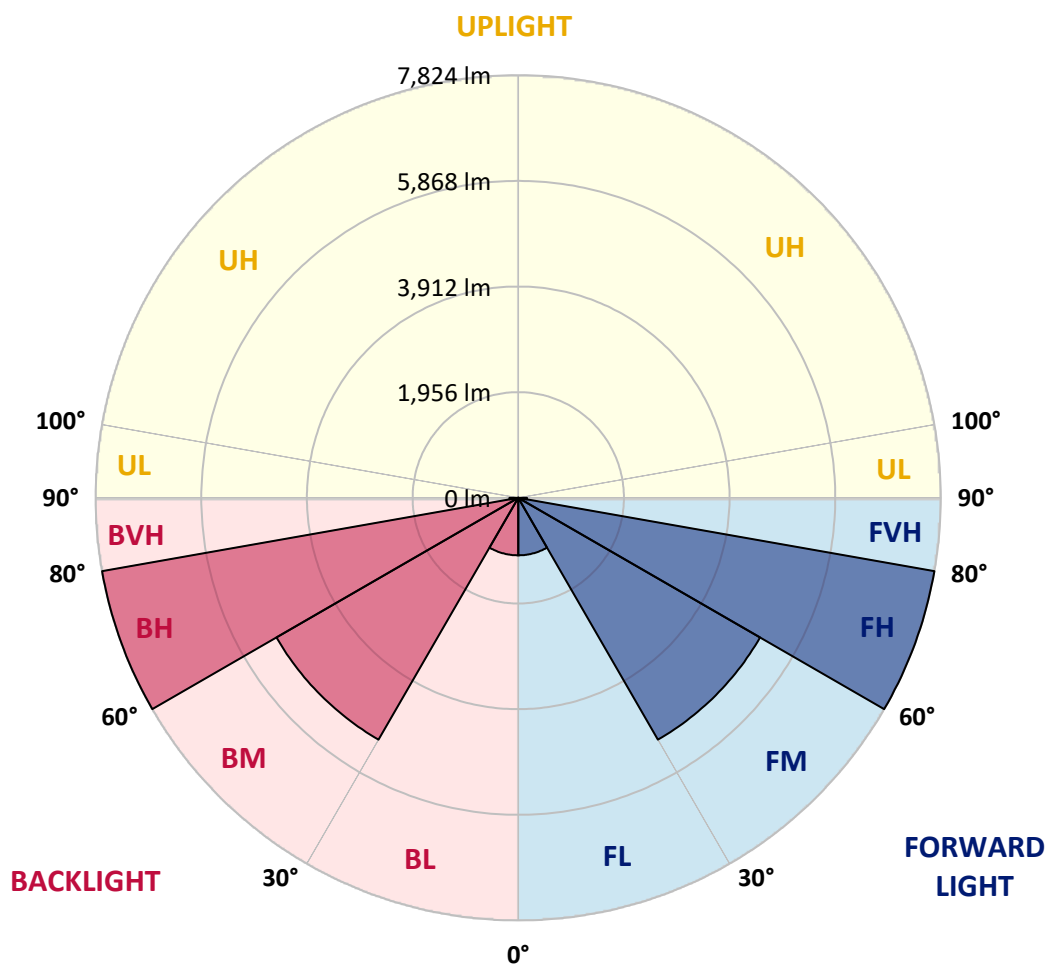
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1064.7	3.7			
FM	(30°-60°)	5170.1	18.2			
FH	(60°-80°)	7824.5	27.5			G4/12000
FVH	(80°-90°)	162.6	0.6			G2/225
BL	(0°-30°)	1064.7	3.7	B3/2500		
BM	(30°-60°)	5170.1	18.2	B4/8500		
BH	(60°-80°)	7824.5	27.5	B5		G4/12000
BVH	(80°-90°)	162.6	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°	2594.7	2594.7	2594.7	2594.7	2594.7	2594.7	2594.7	2594.7	2594.7	2594.7	2594.7
2.5°	2578.4	2585.8	2582.8	2577.0	2577.0	2572.4	2577.0	2579.8	2584.3	2587.2	2585.8
5°	2544.4	2550.3	2548.8	2544.4	2545.9	2541.4	2544.4	2548.8	2551.7	2553.3	2553.3
7.5°	2514.8	2520.7	2517.8	2510.3	2510.3	2505.9	2507.5	2511.9	2516.3	2517.8	2517.8
10°	2507.5	2513.3	2504.5	2492.6	2488.2	2482.2	2483.8	2488.2	2497.1	2501.5	2501.5
12.5°	2510.3	2514.8	2505.9	2488.2	2483.8	2477.8	2477.8	2482.2	2494.1	2500.0	2501.5
15°	2519.2	2523.7	2510.3	2491.2	2486.8	2482.2	2480.8	2486.8	2500.0	2510.3	2511.9
17.5°	2535.5	2540.0	2519.2	2492.6	2486.8	2488.2	2486.8	2491.2	2511.9	2531.0	2531.0
20°	2550.3	2553.3	2525.2	2492.6	2486.8	2488.2	2486.8	2495.6	2522.2	2548.8	2550.3
22.5°	2554.7	2557.7	2531.0	2502.9	2498.5	2500.0	2498.5	2507.5	2532.6	2559.1	2559.1
25°	2556.2	2560.7	2540.0	2517.8	2525.2	2528.2	2525.2	2526.6	2545.9	2569.5	2568.0
27.5°	2578.4	2584.3	2565.1	2545.9	2550.3	2548.8	2553.3	2557.7	2572.4	2596.1	2590.2
30°	2624.2	2628.6	2612.4	2593.1	2590.2	2579.8	2593.1	2607.9	2624.2	2644.9	2640.5
32.5°	2699.6	2708.5	2687.8	2667.0	2653.8	2647.9	2658.2	2683.3	2705.5	2727.7	2718.8
35°	2825.3	2831.2	2812.0	2773.5	2749.9	2749.9	2758.8	2791.3	2826.7	2854.8	2844.5
37.5°	3002.7	3010.1	2976.1	2930.3	2894.8	2894.8	2906.6	2940.6	2993.8	3033.7	3018.9
40°	3218.5	3228.9	3186.0	3138.8	3104.7	3098.8	3113.5	3152.0	3202.3	3252.5	3236.2
42.5°	3478.7	3490.5	3434.4	3393.0	3366.4	3366.4	3373.8	3409.3	3455.1	3517.2	3512.8
45°	3811.4	3832.1	3755.2	3713.8	3688.7	3694.6	3699.0	3730.1	3771.5	3842.4	3839.4
47.5°	4207.6	4228.3	4146.9	4104.1	4099.7	4127.8	4110.0	4132.2	4154.4	4235.7	4212.0
50°	4657.1	4692.6	4636.4	4633.4	4642.2	4694.0	4652.6	4664.5	4639.4	4691.0	4660.0
52.5°	5207.0	5258.8	5248.4	5266.1	5365.3	5471.7	5377.0	5335.6	5241.0	5257.3	5202.6
55°	5873.8	5952.2	5966.9	6073.4	6298.1	6515.4	6314.4	6147.3	5946.2	5909.3	5851.6
57.5°	6632.3	6694.3	6765.3	6982.6	7402.4	7788.4	7402.4	7032.9	6716.5	6641.1	6587.9
60°	7448.4	7525.2	7593.2	7914.0	8537.9	9080.5	8526.1	7939.1	7520.7	7418.7	7330.1
62.5°	8325.0	8424.1	8471.4	8827.7	9555.0	10202.6	9565.4	8854.4	8390.0	8280.7	8192.0
65°	9166.3	9247.6	9300.7	9680.7	10375.7	11024.7	10422.9	9722.1	9244.6	9101.2	9030.2
67.5°	9558.0	9602.4	9732.5	10162.7	10896.1	11636.7	11020.2	10208.6	9674.9	9423.5	9426.4
70°	8984.4	8894.2	9207.7	9896.6	10958.1	12012.3	11100.0	9875.9	9222.4	8814.4	8912.0
72.5°	6942.7	6787.4	7331.5	8509.9	10248.5	11772.7	10319.4	8576.4	7670.1	6842.2	7047.7
75°	3777.4	3601.4	4352.5	5842.7	8172.7	10204.1	8360.5	6009.8	4846.3	3749.2	3993.2
77.5°	1065.9	999.4	1605.6	2826.7	4915.8	7164.4	5105.0	2888.9	1904.2	1129.6	1255.2
80°	326.8	316.4	428.8	851.6	2087.5	3431.4	2006.2	861.9	545.5	344.5	363.7
82.5°	193.7	177.4	212.9	310.5	532.3	1077.8	517.4	323.8	260.2	174.5	189.2
85°	110.9	103.5	125.7	150.8	178.9	229.2	149.3	153.8	139.0	93.2	97.6
87.5°	45.8	41.4	48.8	47.4	41.4	53.2	39.9	47.4	56.2	37.0	34.0
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)