

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: P966782

Luminaire Tested: **NAV-SB4C-827-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P966782
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-SB4C-827-U-5MQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28016.3 lumens
Efficiency: N/A
Efficacy: 139.6 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): 200.7
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

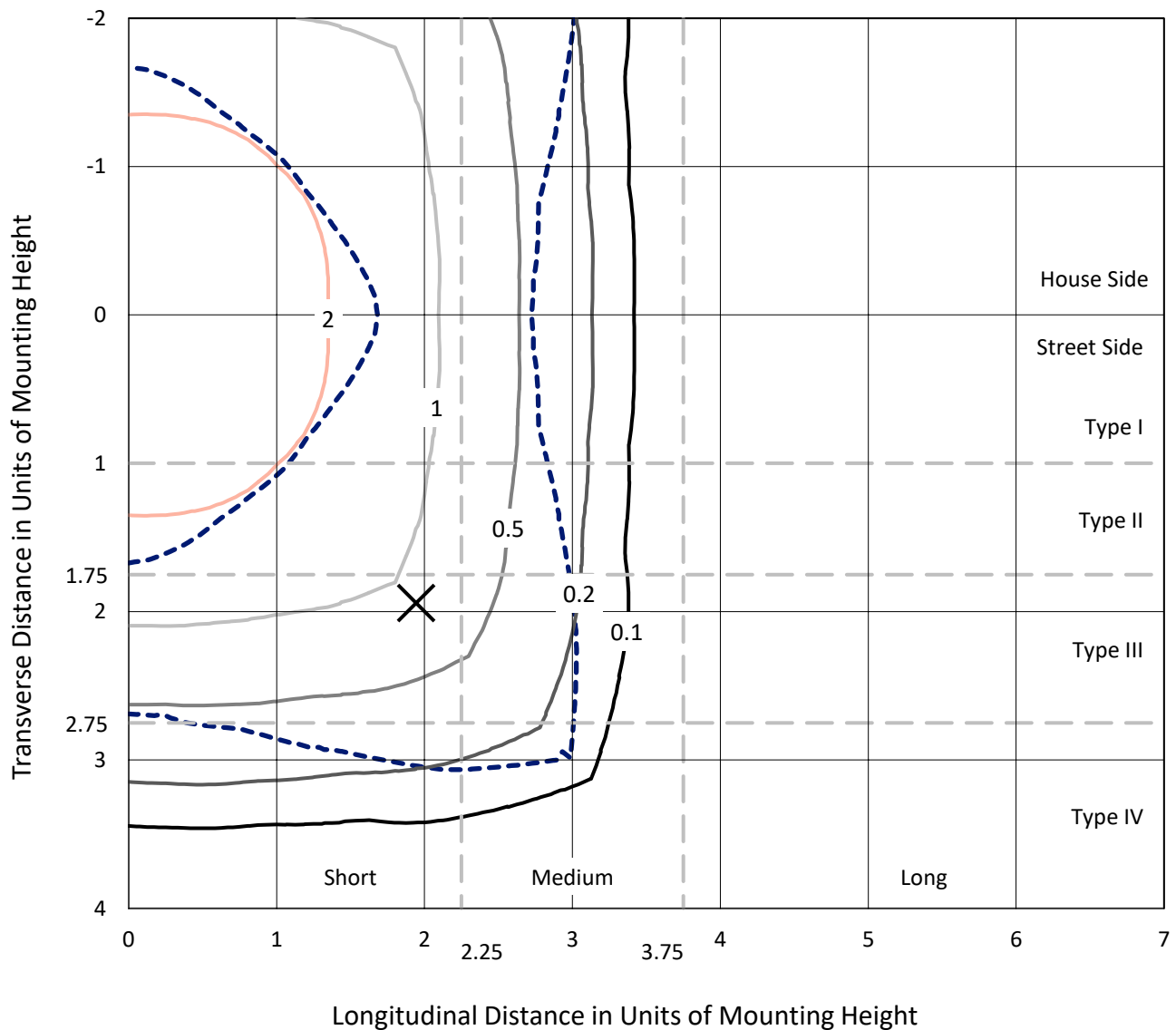


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

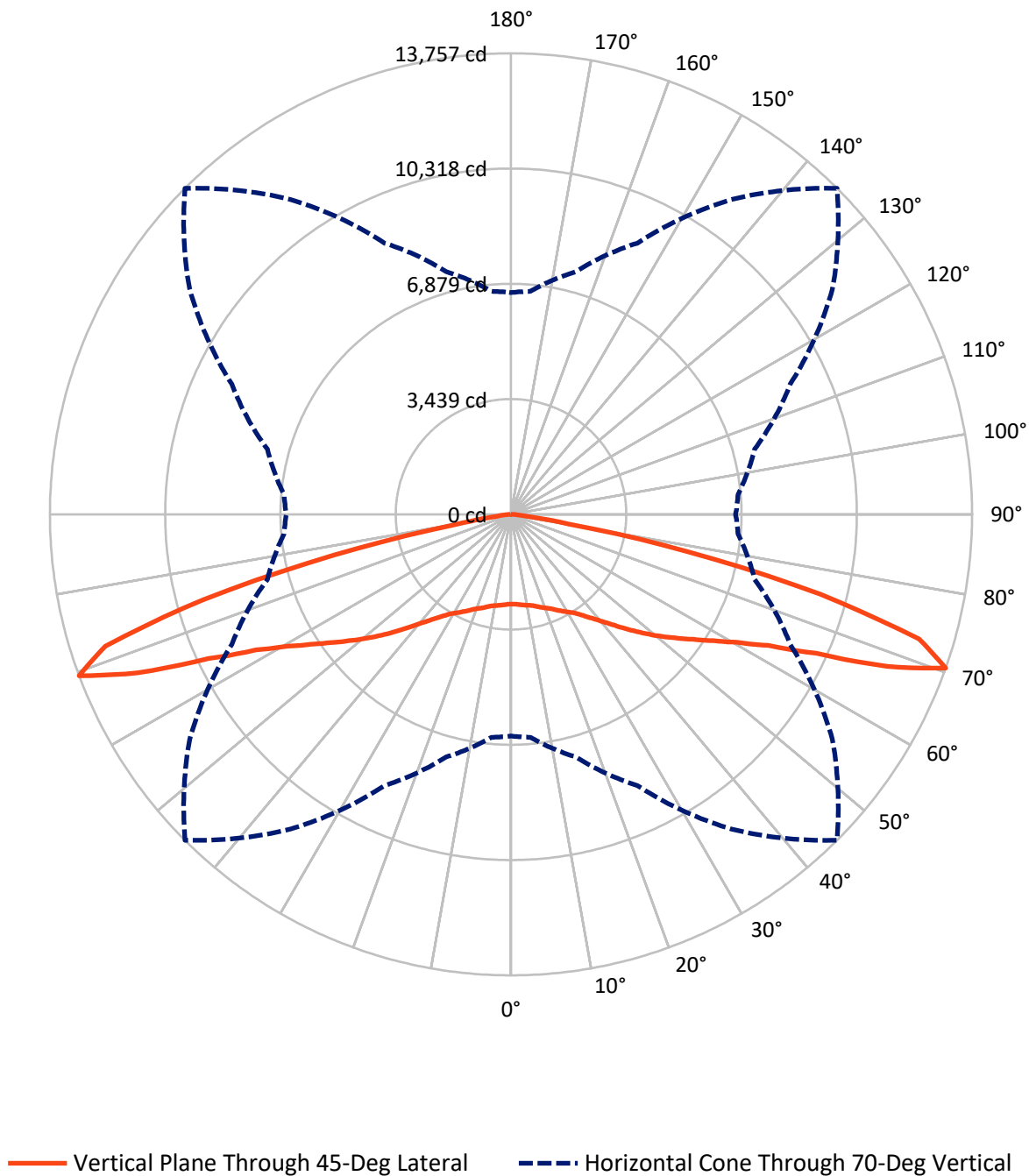


Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14008.2	0.0	14008.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14008.2	0.0	14008.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	28016.3	0.0	28016.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.7	0.9
10°-20°	808.5	2.9
20°-30°	1444.8	5.2
30°-40°	2342.0	8.4
40°-50°	3814.8	13.6
50°-60°	5816.2	20.8
60°-70°	8652.7	30.9
70°-80°	4716.0	16.8
80°-90°	160.6	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°	28016.3	100.0
0°-180°	28016.3	100.0

Coefficient of Utilization



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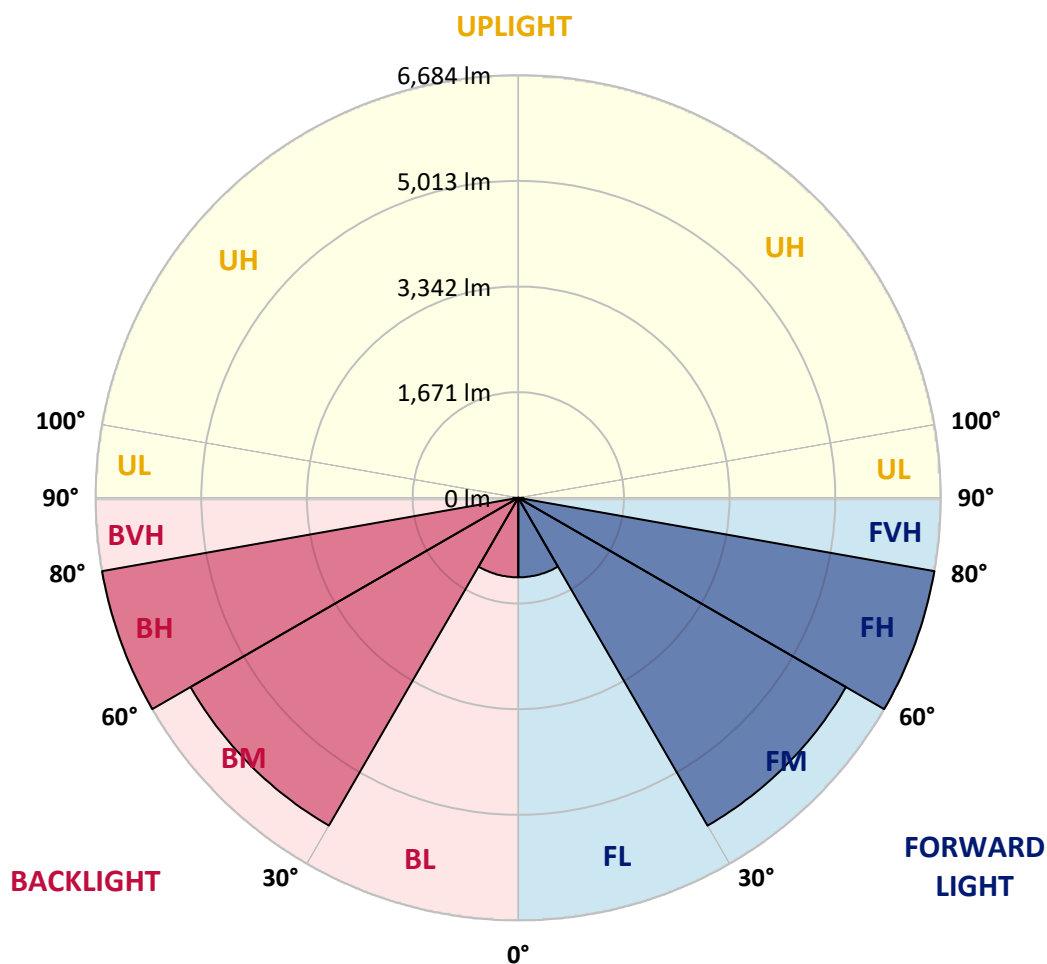
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1257.0	4.5			
FM	(30°-60°)	5986.5	21.4			
FH	(60°-80°)	6684.3	23.9			G3/7500
FVH	(80°-90°)	80.3	0.3			G1/100
BL	(0°-30°)	1257.0	4.5	B3/2500		
BM	(30°-60°)	5986.5	21.4	B4/8500		
BH	(60°-80°)	6684.3	23.9	B5		G3/7500
BVH	(80°-90°)	80.3	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°	2683.7	2683.7	2683.7	2683.7	2683.7	2683.7	2683.7	2683.7	2683.7	2683.7	2683.7
2.5°	2696.4	2699.1	2693.5	2690.7	2687.9	2683.7	2685.1	2692.2	2697.7	2696.4	2697.7
5°	2718.8	2721.7	2717.5	2716.0	2710.4	2709.0	2709.0	2716.0	2720.2	2717.5	2718.8
7.5°	2744.1	2748.3	2741.4	2739.9	2737.2	2734.3	2732.9	2739.9	2744.1	2744.1	2744.1
10°	2768.1	2772.3	2766.7	2762.5	2759.6	2759.6	2756.8	2762.5	2769.4	2768.1	2768.1
12.5°	2793.4	2796.2	2790.6	2787.8	2787.8	2792.0	2787.8	2790.6	2796.2	2793.4	2792.0
15°	2824.3	2825.7	2824.3	2828.6	2835.6	2849.6	2837.0	2834.1	2837.0	2829.9	2829.9
17.5°	2866.5	2869.4	2874.9	2884.8	2894.7	2920.0	2897.5	2890.4	2890.4	2876.4	2876.4
20°	2918.6	2922.8	2931.2	2948.1	2960.7	2984.7	2962.1	2952.3	2948.1	2929.9	2929.9
22.5°	2973.4	2980.5	2993.1	3015.7	3038.1	3060.6	3038.1	3021.3	3008.6	2984.7	2983.3
25°	3036.7	3045.2	3064.9	3101.4	3132.4	3164.7	3137.9	3104.2	3078.9	3045.2	3043.7
27.5°	3126.8	3136.6	3160.5	3205.5	3244.8	3273.0	3247.7	3204.0	3168.9	3128.1	3126.8
30°	3253.4	3263.2	3291.3	3339.1	3365.9	3384.1	3367.2	3333.5	3291.3	3244.8	3244.8
32.5°	3416.5	3429.1	3460.1	3505.1	3510.7	3513.5	3507.9	3491.0	3460.1	3403.8	3405.3
35°	3623.3	3637.3	3672.5	3709.1	3703.4	3709.1	3700.6	3695.0	3672.5	3607.8	3607.8
37.5°	3876.4	3893.3	3929.8	3958.0	3943.9	3936.9	3938.3	3939.7	3927.1	3855.3	3855.3
40°	4170.4	4192.9	4219.6	4249.1	4225.3	4204.1	4218.2	4229.5	4218.2	4145.1	4145.1
42.5°	4472.8	4505.2	4533.3	4575.5	4555.8	4529.1	4548.7	4561.4	4537.5	4458.8	4464.4
45°	4809.0	4839.9	4876.4	4939.8	4925.7	4897.6	4925.7	4928.5	4887.7	4794.8	4804.7
47.5°	5156.4	5188.8	5243.6	5328.0	5322.3	5291.4	5328.0	5308.3	5256.2	5145.1	5138.1
50°	5485.5	5530.5	5614.8	5733.0	5744.3	5706.3	5755.6	5717.6	5630.3	5491.1	5488.3
52.5°	5794.9	5842.8	5976.4	6136.7	6177.5	6128.3	6194.4	6128.3	5997.5	5818.8	5802.0
55°	6119.9	6173.3	6332.2	6541.9	6623.3	6586.9	6648.7	6548.8	6363.2	6146.6	6117.0
57.5°	6502.4	6534.8	6724.6	6973.6	7111.4	7119.9	7148.0	6979.2	6754.2	6508.0	6474.3
60°	6917.3	6962.3	7169.2	7467.3	7685.3	7755.7	7726.1	7475.7	7214.2	6931.5	6886.4
62.5°	7449.0	7498.3	7745.8	8103.0	8447.6	8622.1	8506.8	8143.8	7820.3	7481.4	7422.3
65°	7889.2	7944.2	8391.4	9028.6	9655.9	10006.2	9716.4	9048.3	8466.0	7987.7	7909.0
67.5°	7570.0	7637.5	8339.4	9509.6	11069.5	12114.5	11122.9	9653.0	8512.3	7863.9	7766.9
70°	6616.4	6679.6	7498.3	8928.7	11467.5	13757.3	11706.6	9191.7	7524.9	6799.2	6702.2
72.5°	4392.6	4596.6	5425.0	7141.0	10239.5	12730.6	10340.8	6996.1	5032.5	4382.8	4240.7
75°	1457.1	1620.3	2185.7	3702.0	6858.3	9520.8	6529.1	3275.8	1731.4	1246.2	1178.6
77.5°	367.2	423.3	583.7	1059.1	2735.7	5420.8	2462.9	865.0	471.2	329.1	294.0
80°	178.7	196.9	281.3	353.0	685.0	1723.0	642.8	331.9	222.2	171.6	157.5
82.5°	98.5	99.8	159.0	199.8	254.6	445.9	264.4	194.1	128.0	104.0	104.0
85°	60.5	59.0	84.4	106.9	106.9	159.0	126.6	106.9	73.2	64.7	67.5
87.5°	23.9	23.9	31.0	33.7	29.5	40.8	32.4	35.2	28.1	26.8	28.1
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)