

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: P968425

Luminaire Tested: **NAV-SB5B-835-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968425
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-SB5B-835-U-5MQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28320.7 lumens
Efficiency: N/A
Efficacy: 155.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

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

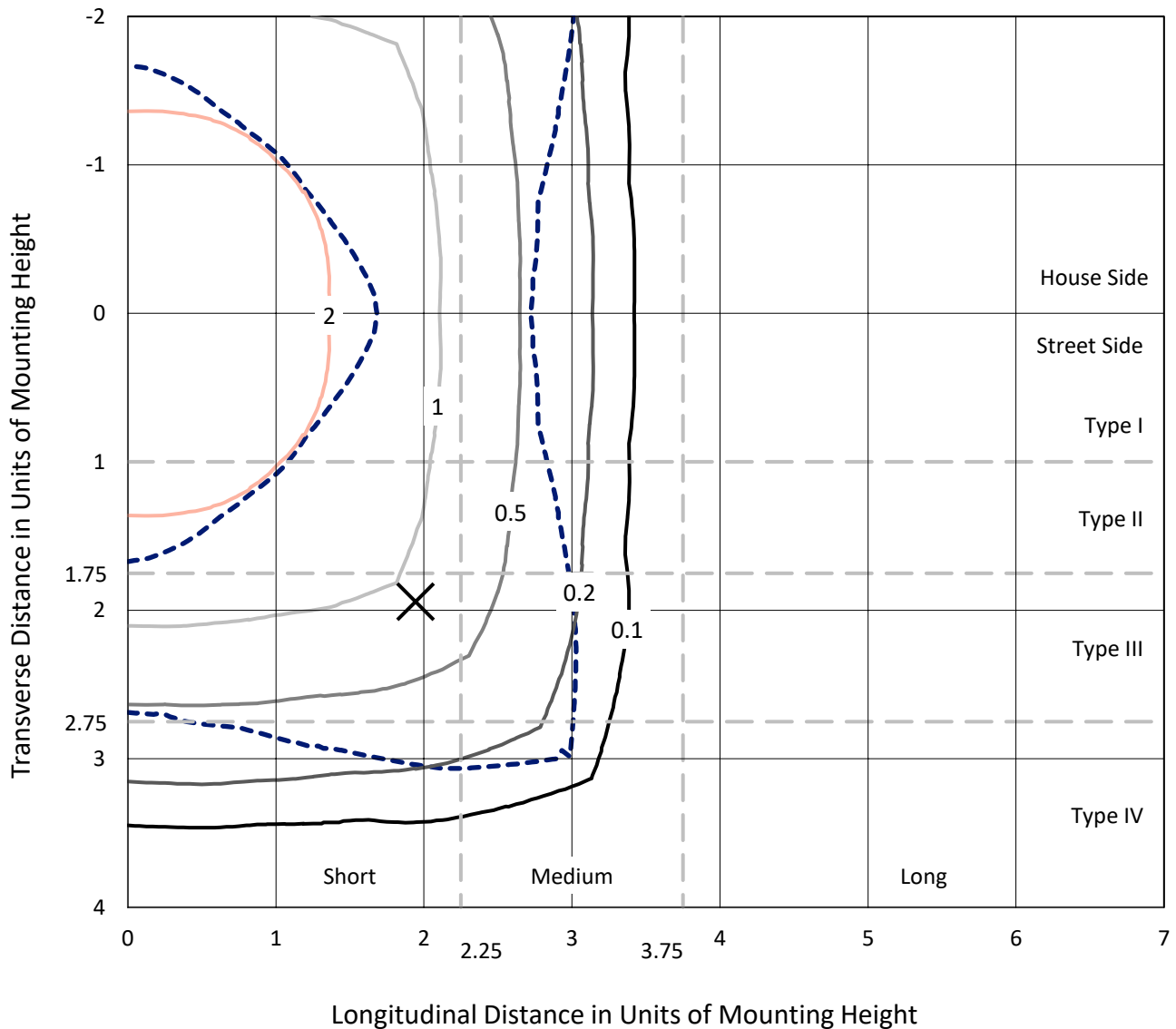


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Iso-Footcandle Lines of Horizontal Illumination

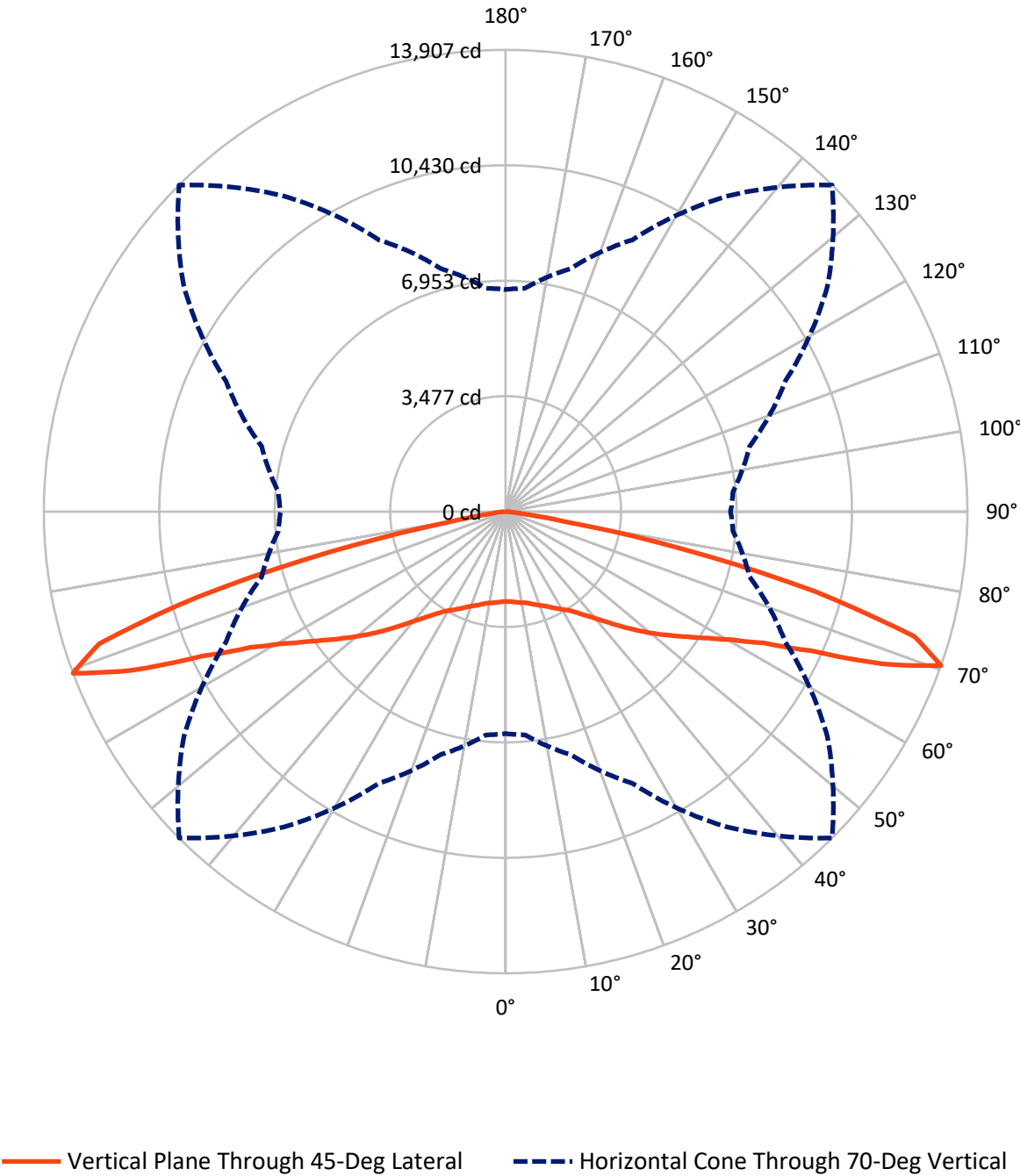
× Max cd
- - - 1/2 Max cd



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	14160.4	0.0	14160.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14160.4	0.0	14160.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	28320.7	0.0	28320.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.6	0.9
10°-20°	817.2	2.9
20°-30°	1460.5	5.2
30°-40°	2367.5	8.4
40°-50°	3856.2	13.6
50°-60°	5879.4	20.8
60°-70°	8746.7	30.9
70°-80°	4767.2	16.8
80°-90°	162.3	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°	28320.7	100.0
0°-180°	28320.7	100.0

Coefficient of Utilization



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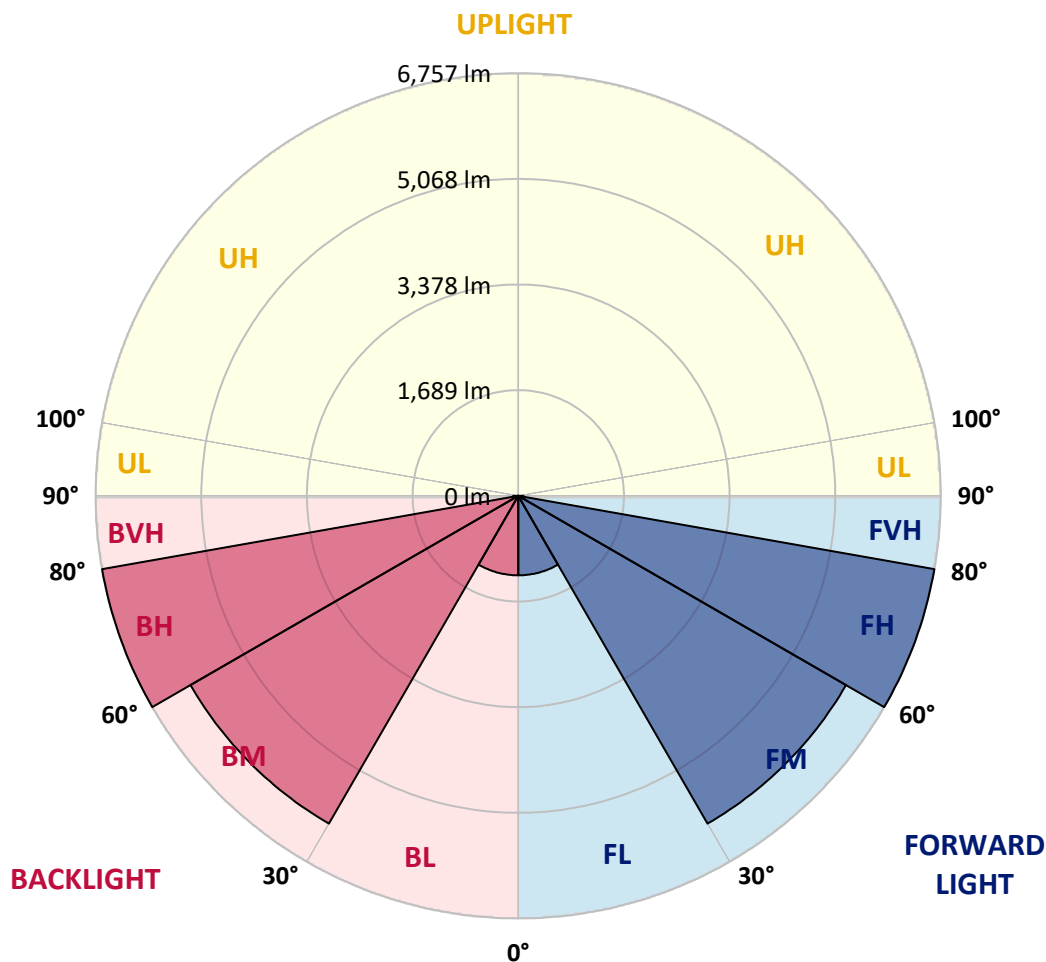
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1270.7	4.5			
FM	(30°-60°)	6051.6	21.4			
FH	(60°-80°)	6757.0	23.9			G3/7500
FVH	(80°-90°)	81.2	0.3			G1/100
BL	(0°-30°)	1270.7	4.5	B3/2500		
BM	(30°-60°)	6051.6	21.4	B4/8500		
BH	(60°-80°)	6757.0	23.9	B5		G3/7500
BVH	(80°-90°)	81.2	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°	2712.9	2712.9	2712.9	2712.9	2712.9	2712.9	2712.9	2712.9	2712.9	2712.9	2712.9
2.5°	2725.7	2728.4	2722.8	2719.9	2717.1	2712.9	2714.3	2721.4	2727.0	2725.7	2727.0
5°	2748.3	2751.2	2747.0	2745.6	2739.8	2738.4	2738.4	2745.6	2749.8	2747.0	2748.3
7.5°	2774.0	2778.3	2771.1	2769.8	2766.9	2764.0	2762.6	2769.8	2774.0	2774.0	2774.0
10°	2798.1	2802.5	2796.7	2792.4	2789.6	2789.6	2786.8	2792.4	2799.6	2798.1	2798.1
12.5°	2823.8	2826.5	2820.9	2818.0	2818.0	2822.3	2818.0	2820.9	2826.5	2823.8	2822.3
15°	2855.0	2856.5	2855.0	2859.2	2866.4	2880.7	2867.8	2865.0	2867.8	2860.7	2860.7
17.5°	2897.7	2900.5	2906.2	2916.1	2926.1	2951.7	2928.9	2921.9	2921.9	2907.6	2907.6
20°	2950.3	2954.6	2963.1	2980.2	2992.9	3017.1	2994.3	2984.4	2980.2	2961.6	2961.6
22.5°	3005.7	3012.9	3025.6	3048.4	3071.1	3093.9	3071.1	3054.1	3041.3	3017.1	3015.7
25°	3069.7	3078.3	3098.2	3135.1	3166.4	3199.1	3172.1	3137.9	3112.4	3078.3	3076.8
27.5°	3160.7	3170.6	3194.8	3240.3	3280.1	3308.6	3283.0	3238.9	3203.3	3162.1	3160.7
30°	3288.7	3298.7	3327.0	3375.4	3402.4	3420.9	3403.8	3369.7	3327.0	3280.1	3280.1
32.5°	3453.6	3466.4	3497.7	3543.2	3548.9	3551.7	3546.0	3529.0	3497.7	3440.8	3442.3
35°	3662.6	3676.9	3712.3	3749.3	3743.6	3749.3	3740.8	3735.1	3712.3	3647.0	3647.0
37.5°	3918.6	3935.6	3972.6	4001.0	3986.7	3979.7	3981.1	3982.5	3969.7	3897.3	3897.3
40°	4215.7	4238.5	4265.4	4295.4	4271.2	4249.9	4264.0	4275.4	4264.0	4190.1	4190.1
42.5°	4521.4	4554.1	4582.6	4625.2	4605.3	4578.3	4598.2	4611.0	4586.8	4507.1	4512.9
45°	4861.2	4892.5	4929.4	4993.4	4979.2	4950.8	4979.2	4982.0	4940.8	4847.0	4857.0
47.5°	5212.4	5245.1	5300.6	5385.9	5380.1	5348.9	5385.9	5366.0	5313.4	5201.1	5193.9
50°	5545.1	5590.6	5675.9	5795.3	5806.7	5768.3	5818.1	5779.7	5691.5	5550.8	5547.9
52.5°	5857.9	5906.3	6041.3	6203.4	6244.6	6194.9	6261.7	6194.9	6062.7	5882.1	5865.0
55°	6186.4	6240.4	6401.0	6612.9	6695.4	6658.4	6720.9	6620.0	6432.3	6213.3	6183.5
57.5°	6573.1	6605.8	6797.7	7049.4	7188.7	7197.2	7225.7	7055.1	6827.6	6578.8	6544.6
60°	6992.6	7038.1	7247.1	7548.4	7768.8	7839.9	7810.1	7557.0	7292.6	7006.7	6961.3
62.5°	7530.0	7579.8	7830.0	8191.1	8539.5	8715.8	8599.1	8232.4	7905.3	7562.7	7503.0
65°	7975.0	8030.5	8482.6	9126.7	9760.8	10114.8	9822.0	9146.6	8557.9	8074.5	7994.9
67.5°	7652.2	7720.5	8430.0	9613.0	11189.7	12246.2	11243.7	9758.0	8604.9	7949.4	7851.3
70°	6688.2	6752.2	7579.8	9025.7	11592.1	13906.8	11833.8	9291.6	7606.7	6873.0	6774.9
72.5°	4440.3	4646.5	5484.0	7218.6	10350.9	12868.9	10453.3	7072.1	5087.3	4430.4	4286.8
75°	1473.0	1637.9	2209.5	3742.3	6932.8	9624.3	6600.1	3311.5	1750.3	1259.7	1191.5
77.5°	371.0	427.9	590.1	1070.6	2765.4	5479.6	2489.6	874.4	476.3	332.7	297.1
80°	180.6	199.1	284.3	356.9	692.4	1741.7	649.7	335.6	224.7	173.4	159.3
82.5°	99.5	101.0	160.6	201.9	257.4	450.7	267.3	196.2	129.4	105.2	105.2
85°	61.1	59.8	85.3	108.0	108.0	160.6	127.9	108.0	73.9	65.4	68.3
87.5°	24.2	24.2	31.3	34.1	29.8	41.2	32.7	35.6	28.4	27.1	28.4
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)