

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: P963171

Luminaire Tested: **NAV-SB2D-835-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963171
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2D-835-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

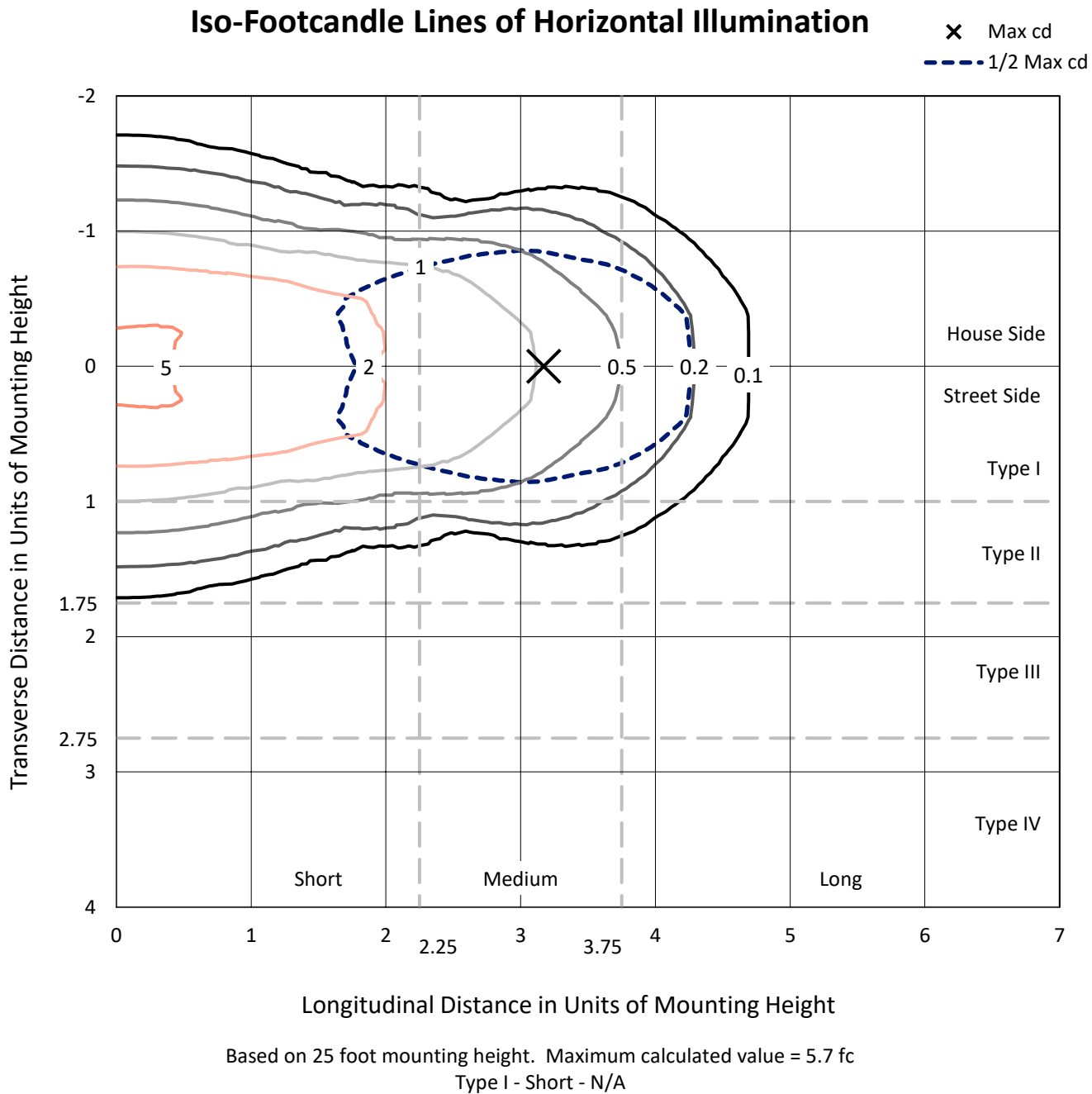
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19139.8 lumens
Efficiency: N/A
Efficacy: 129.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 147.6
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

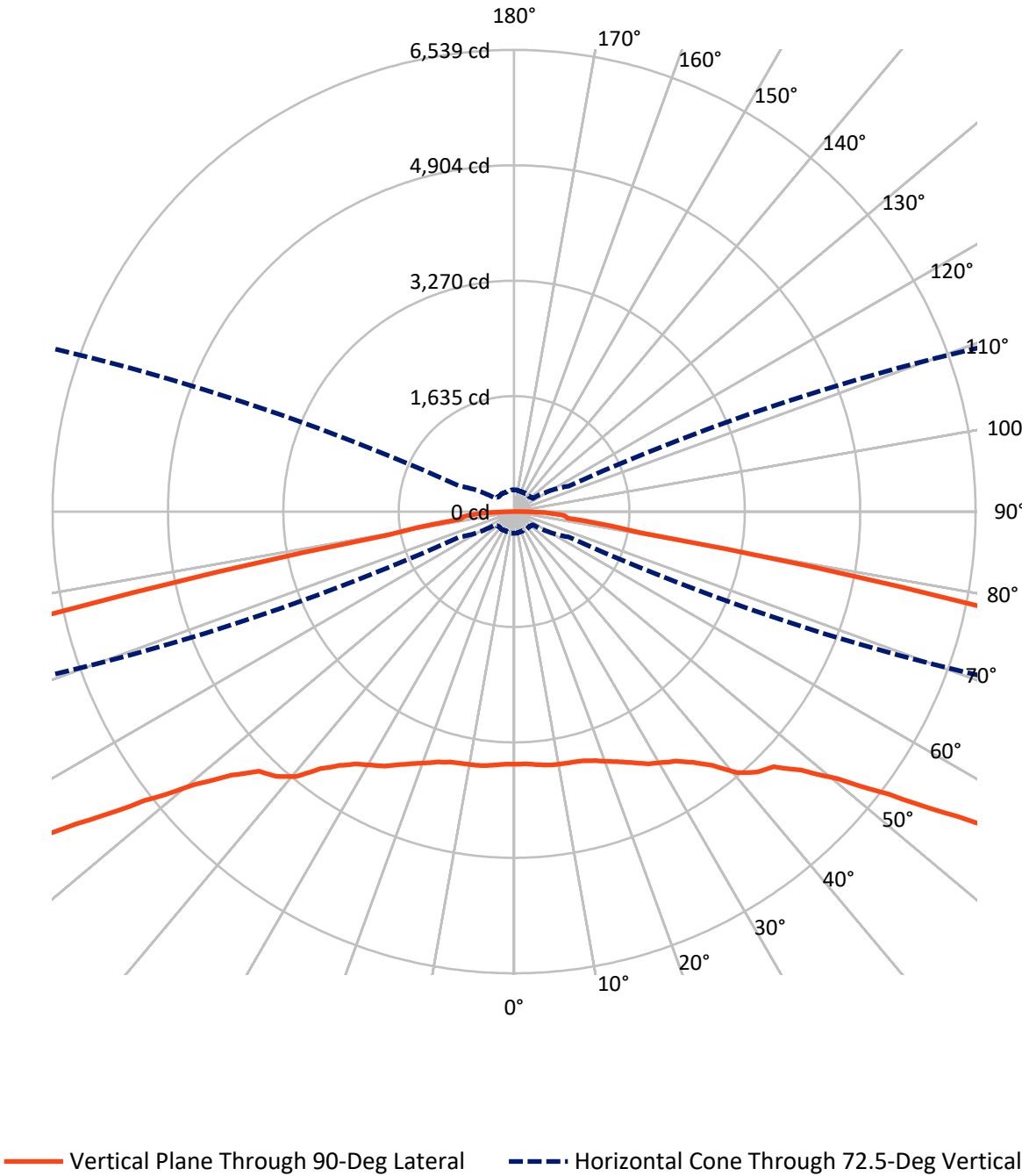


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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9569.9	0.0	9569.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9569.9	0.0	9569.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	19139.8	0.0	19139.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	346.8	1.8
10°-20°	1060.3	5.5
20°-30°	1768.0	9.2
30°-40°	2431.5	12.7
40°-50°	2969.6	15.5
50°-60°	3434.6	17.9
60°-70°	4095.2	21.4
70°-80°	2858.2	14.9
80°-90°	175.5	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°	19139.8	100.0
0°-180°	19139.8	100.0

Coefficient of Utilization



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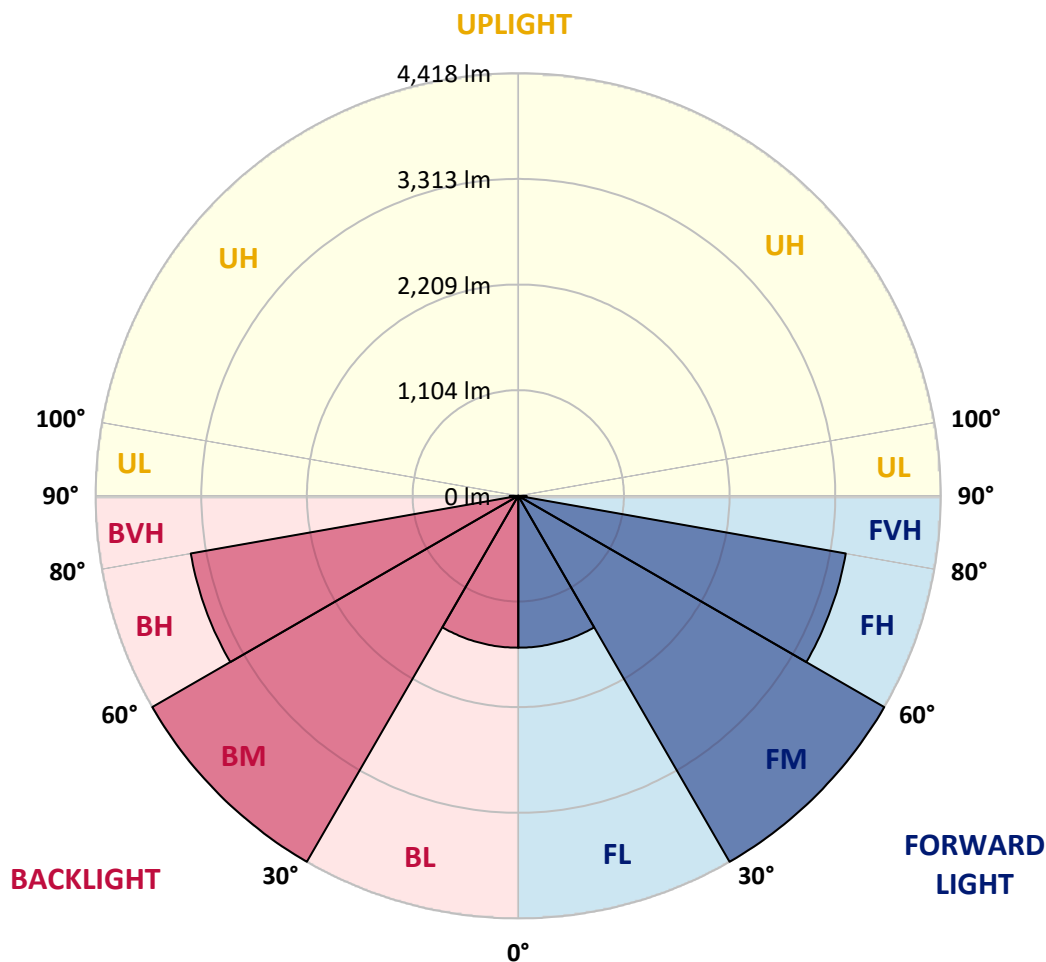
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1587.6	8.3			
FM	(30°-60°)	4417.9	23.1			
FH	(60°-80°)	3476.7	18.2			G2/5000
FVH	(80°-90°)	87.8	0.5			G1/100
BL	(0°-30°)	1587.6	8.3	B3/2500		
BM	(30°-60°)	4417.9	23.1	B3/5000		
BH	(60°-80°)	3476.7	18.2	B4/5000		G4/5000
BVH	(80°-90°)	87.8	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3576.4	3576.4	3576.4	3576.4	3576.4	3576.4	3576.4	3576.4	3576.4	3576.4	3576.4
2.5°	3579.5	3583.6	3583.6	3580.5	3587.7	3581.6	3581.6	3578.5	3581.6	3578.5	3578.5
5°	3597.9	3602.9	3604.9	3603.9	3613.1	3608.0	3608.0	3603.9	3604.9	3602.0	3602.0
7.5°	3632.4	3639.6	3643.6	3648.7	3661.9	3655.9	3651.8	3639.6	3634.4	3626.3	3626.3
10°	3643.6	3651.8	3665.0	3691.4	3722.0	3723.0	3710.7	3680.3	3656.8	3638.5	3635.5
12.5°	3609.0	3620.2	3647.7	3701.6	3769.7	3797.2	3777.8	3727.0	3681.3	3648.7	3643.6
15°	3565.3	3577.5	3619.2	3700.6	3801.3	3865.4	3863.3	3796.2	3723.0	3672.1	3664.0
17.5°	3497.1	3509.3	3569.4	3683.2	3825.7	3931.5	3960.0	3890.8	3788.1	3719.9	3708.8
20°	3374.1	3385.3	3468.7	3628.4	3833.8	4001.7	4075.9	4014.9	3886.7	3794.1	3776.8
22.5°	3214.4	3231.6	3329.3	3533.8	3814.5	4074.9	4208.1	4166.4	4001.7	3873.5	3850.1
25°	3043.4	3061.8	3175.7	3417.8	3764.6	4127.8	4364.9	4338.3	4131.9	3972.2	3939.6
27.5°	2895.9	2915.3	3039.4	3302.9	3687.3	4148.2	4519.4	4532.7	4289.5	4081.0	4046.4
30°	2780.0	2798.4	2930.6	3210.3	3587.7	4127.8	4654.7	4746.3	4450.2	4175.6	4125.7
32.5°	2652.9	2676.3	2815.6	3097.3	3469.6	4079.0	4772.7	4977.2	4636.4	4277.3	4214.3
35°	2492.2	2513.5	2660.0	2942.8	3315.1	4000.7	4871.4	5233.5	4902.9	4431.9	4361.8
37.5°	2296.8	2317.2	2462.7	2749.5	3161.5	3890.8	4946.6	5522.4	5220.3	4654.7	4561.1
40°	2100.5	2119.8	2256.1	2533.8	2977.3	3750.4	4973.1	5805.2	5584.4	4960.9	4861.2
42.5°	1920.4	1937.8	2062.9	2321.2	2770.9	3571.4	4938.6	6051.3	5911.0	5174.5	5046.4
45°	1754.7	1770.0	1880.8	2121.9	2556.2	3353.7	4834.7	6315.8	6299.5	5327.1	5154.1
47.5°	1565.5	1580.8	1695.7	1928.6	2341.6	3098.4	4658.8	6576.2	6839.6	5673.0	5473.6
50°	1334.6	1347.8	1465.7	1705.8	2118.9	2826.8	4414.7	6780.7	7521.1	6196.7	5946.5
52.5°	1061.0	1075.2	1190.1	1430.2	1854.3	2534.8	4093.2	6913.9	8308.5	6961.7	6653.5
55°	789.4	799.5	899.2	1114.9	1526.8	2202.2	3690.4	6951.6	9201.6	8007.4	7621.9
57.5°	572.7	578.8	642.9	803.6	1157.5	1786.2	3201.2	6853.9	10264.6	9348.1	8862.9
60°	463.8	465.9	485.2	556.4	804.6	1316.3	2610.2	6518.2	11418.1	11076.3	10464.9
62.5°	421.1	421.1	426.2	445.6	544.2	868.7	1895.0	5822.4	12655.0	13260.2	12441.3
65°	391.7	391.7	393.7	402.8	429.3	553.4	1196.3	4689.3	13697.6	15818.5	14783.0
67.5°	365.2	366.2	365.2	368.2	383.5	408.9	693.7	3238.8	14259.1	18469.3	17351.4
70°	337.7	339.8	334.7	334.7	346.9	347.9	434.4	1776.0	13793.2	20690.9	20396.9
72.5°	305.1	308.2	300.1	298.1	307.2	303.1	326.6	852.4	11842.2	21354.1	22127.2
75°	276.6	280.7	262.4	257.4	257.4	254.3	265.5	437.4	7686.0	17419.6	18632.0
77.5°	251.2	259.4	229.9	213.6	209.5	200.4	216.7	267.5	3361.9	8178.3	8008.4
80°	207.5	218.7	189.2	169.8	162.8	152.6	170.9	187.2	999.9	1899.1	1818.8
82.5°	154.6	159.7	134.3	121.1	114.9	107.8	128.1	130.2	325.5	672.4	759.8
85°	98.7	100.7	82.4	71.2	68.2	65.1	81.4	71.2	124.1	494.4	718.1
87.5°	34.5	39.7	31.6	28.5	30.5	25.4	37.6	21.3	34.5	348.9	432.3
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)