

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: P882805

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

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P882805
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
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: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17311 lumens
Efficiency: N/A
Efficacy: 117.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

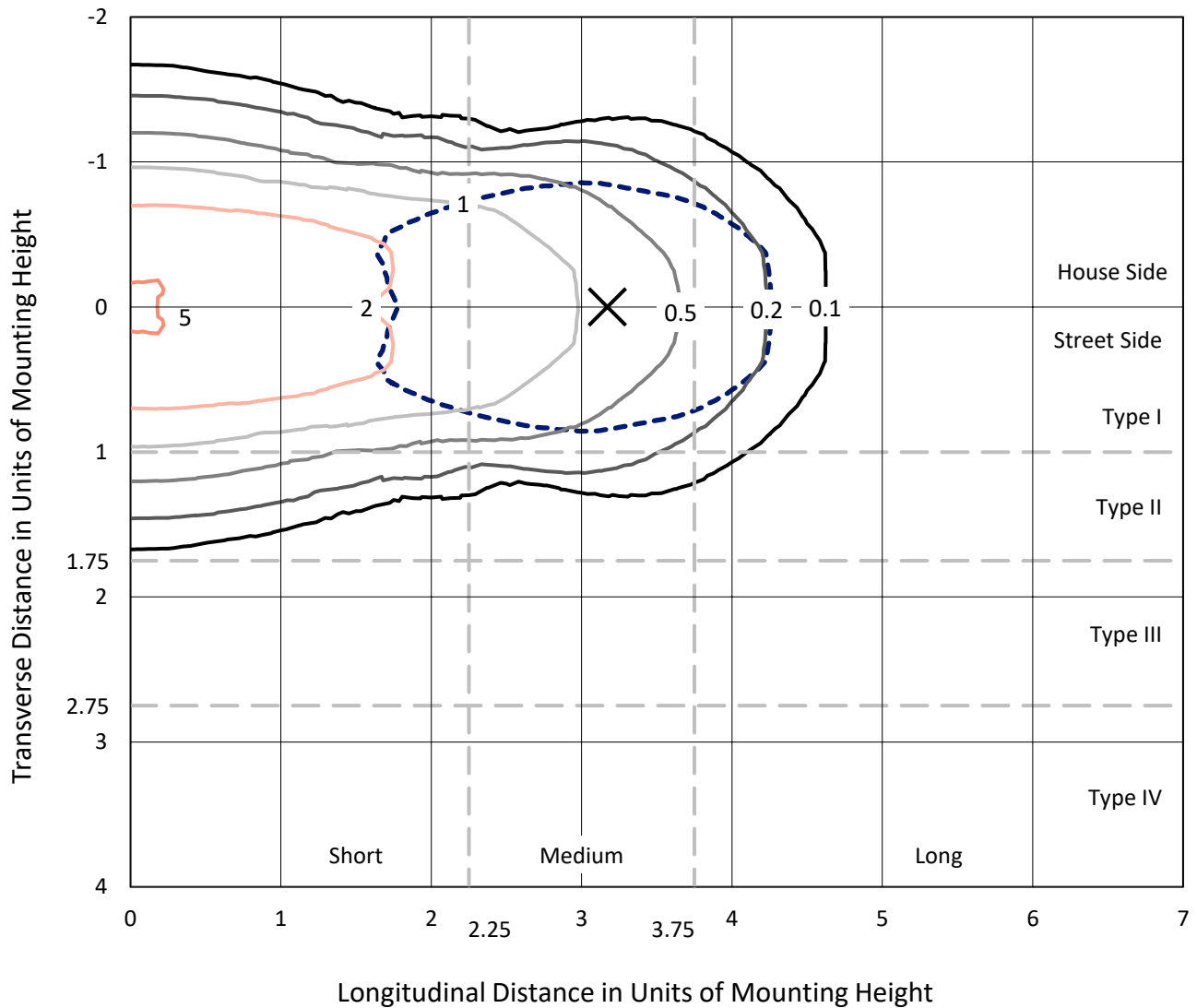
Input Watts (W): 147.6
Input Voltage (V): 120.0
Input Current (Ain): 1.234
Voltage Rise (V): NR
Power Factor: 0.999
Total Harmonic Distortion (THDi): 3.108
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

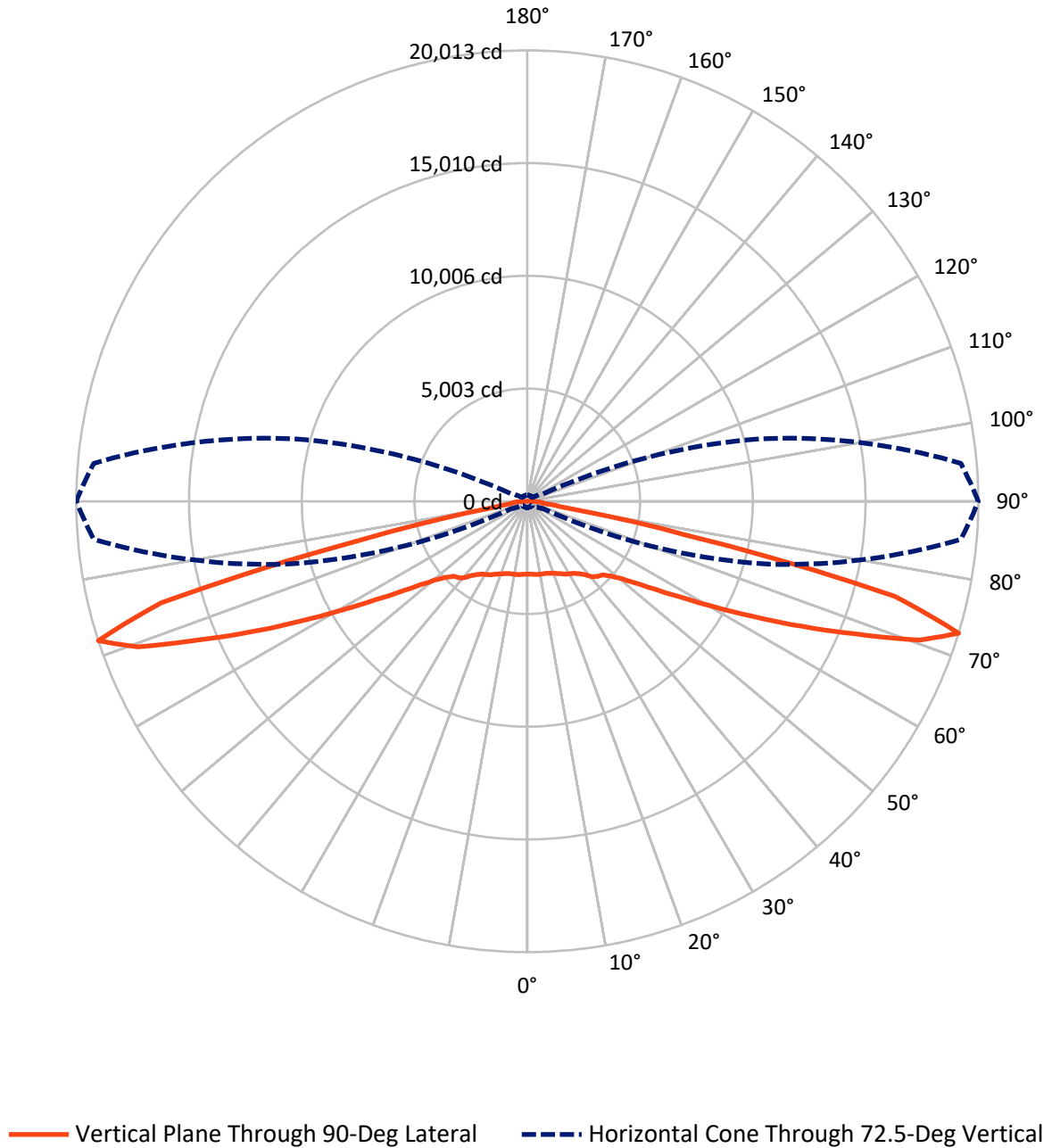
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8655.5	0.0	8655.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8655.5	0.0	8655.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	17311.0	0.0	17311.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	313.6	1.8
10°-20°	959.0	5.5
20°-30°	1599.1	9.2
30°-40°	2199.2	12.7
40°-50°	2685.8	15.5
50°-60°	3106.4	17.9
60°-70°	3703.9	21.4
70°-80°	2585.1	14.9
80°-90°	158.8	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°	17311.0	100.0
0°-180°	17311.0	100.0

Coefficient of Utilization



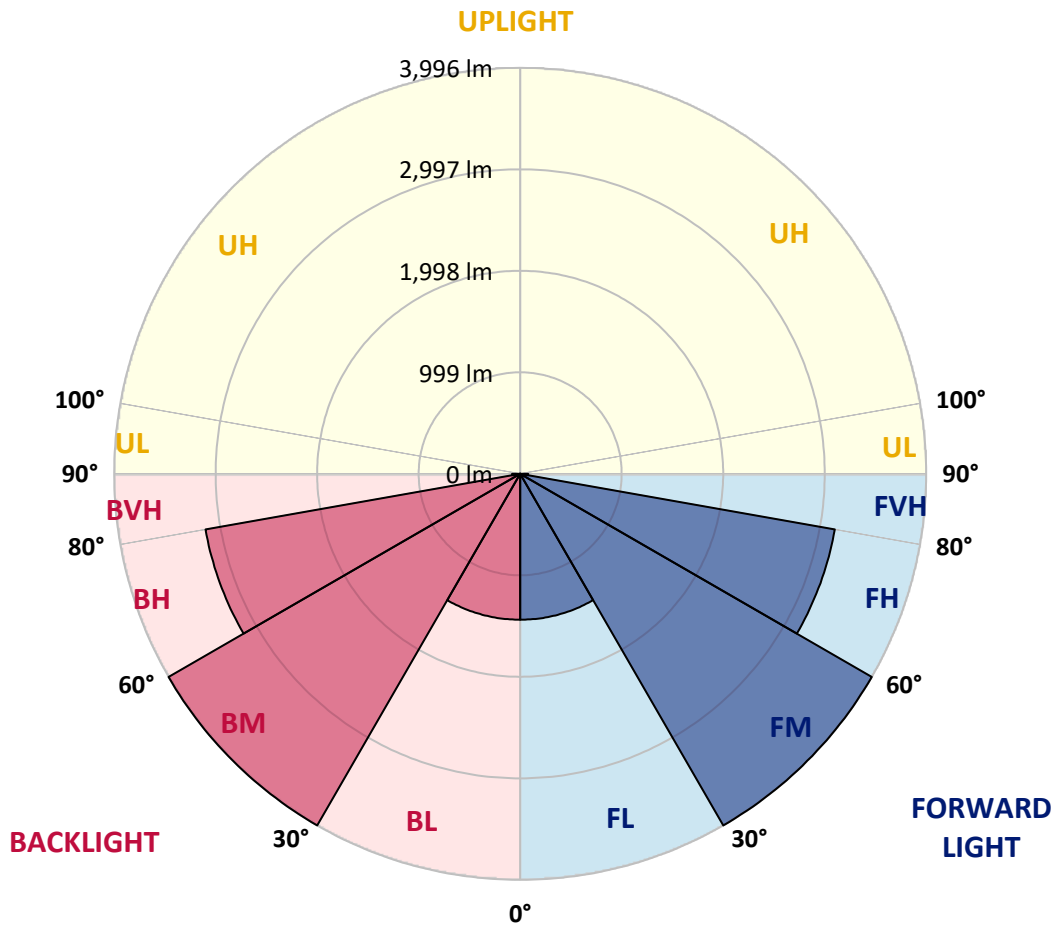
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1435.9	8.3			
FM (30°-60°)	3995.7	23.1			
FH (60°-80°)	3144.5	18.2			G2/5000
FVH (80°-90°)	79.4	0.5			G1/100
BL (0°-30°)	1435.9	8.3	B3/2500		
BM (30°-60°)	3995.7	23.1	B3/5000		
BH (60°-80°)	3144.5	18.2	B4/5000		G4/5000
BVH (80°-90°)	79.4	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°	3234.7	3234.7	3234.7	3234.7	3234.7	3234.7	3234.7	3234.7	3234.7	3234.7	3234.7
2.5°	3237.5	3241.2	3241.2	3238.4	3244.9	3239.3	3239.3	3236.6	3239.3	3236.6	3236.6
5°	3254.1	3258.7	3260.5	3259.6	3267.9	3263.3	3263.3	3259.6	3260.5	3257.7	3257.7
7.5°	3285.3	3291.8	3295.5	3300.1	3312.0	3306.5	3302.8	3291.8	3287.2	3279.8	3279.8
10°	3295.5	3302.8	3314.8	3338.7	3366.3	3367.2	3356.2	3328.6	3307.4	3290.9	3288.1
12.5°	3264.2	3274.3	3299.1	3347.9	3409.5	3434.4	3416.9	3370.9	3329.5	3300.1	3295.5
15°	3224.6	3235.7	3273.4	3347.0	3438.1	3496.0	3494.2	3433.5	3367.2	3321.2	3313.9
17.5°	3163.0	3174.0	3228.3	3331.3	3460.1	3555.8	3581.6	3519.0	3426.1	3364.5	3354.3
20°	3051.7	3061.8	3137.2	3281.7	3467.5	3619.3	3686.5	3631.3	3515.3	3431.6	3416.0
22.5°	2907.2	2922.9	3011.2	3196.1	3450.0	3685.5	3806.1	3768.3	3619.3	3503.4	3482.2
25°	2752.7	2769.2	2872.3	3091.2	3404.9	3733.4	3947.7	3923.8	3737.1	3592.6	3563.2
27.5°	2619.3	2636.7	2749.0	2987.3	3335.0	3751.8	4087.6	4099.5	3879.7	3691.1	3659.8
30°	2514.4	2530.9	2650.5	2903.5	3244.9	3733.4	4210.0	4292.8	4025.0	3776.6	3731.5
32.5°	2399.4	2420.5	2546.6	2801.4	3138.1	3689.2	4316.7	4501.6	4193.4	3868.6	3811.6
35°	2254.0	2273.3	2405.8	2661.6	2998.3	3618.4	4405.9	4733.4	4434.4	4008.5	3945.0
37.5°	2077.4	2095.8	2227.3	2486.8	2859.4	3519.0	4474.0	4994.7	4721.5	4210.0	4125.3
40°	1899.8	1917.3	2040.6	2291.7	2692.9	3392.1	4497.9	5250.5	5050.8	4486.9	4396.7
42.5°	1737.0	1752.6	1865.8	2099.5	2506.1	3230.1	4466.6	5473.1	5346.2	4680.1	4564.2
45°	1587.0	1600.8	1701.1	1919.1	2312.0	3033.3	4372.8	5712.3	5697.6	4818.1	4661.7
47.5°	1415.9	1429.7	1533.7	1744.3	2117.9	2802.3	4213.6	5947.8	6186.1	5130.9	4950.6
50°	1207.0	1219.0	1325.7	1542.9	1916.4	2556.7	3992.8	6132.8	6802.5	5604.7	5378.4
52.5°	959.6	972.4	1076.4	1293.5	1677.2	2292.7	3702.1	6253.3	7514.6	6296.5	6017.8
55°	713.9	723.1	813.3	1008.3	1380.9	1991.8	3337.8	6287.3	8322.4	7242.3	6893.6
57.5°	518.0	523.5	581.4	726.8	1047.0	1615.5	2895.3	6199.0	9283.8	8454.9	8016.0
60°	419.5	421.4	438.8	503.2	727.7	1190.5	2360.7	5895.4	10327.1	10018.0	9465.0
62.5°	380.9	380.9	385.5	403.0	492.2	785.7	1714.0	5266.1	11445.8	11993.2	11252.6
65°	354.2	354.2	356.0	364.3	388.2	500.5	1081.9	4241.2	12388.8	14307.0	13370.5
67.5°	330.3	331.2	330.3	333.0	346.8	369.8	627.4	2929.3	12896.7	16704.6	15693.5
70°	305.4	307.3	302.7	302.7	313.7	314.6	392.8	1606.3	12475.3	18713.9	18448.0
72.5°	276.0	278.8	271.4	269.6	277.8	274.2	295.3	771.0	10710.7	19313.7	20012.9
75°	250.2	253.9	237.4	232.8	232.8	230.0	240.1	395.6	6951.6	15755.1	16851.8
77.5°	227.2	234.6	207.9	193.2	189.5	181.2	196.0	242.0	3040.6	7396.9	7243.2
80°	187.7	197.8	171.1	153.6	147.2	138.0	154.6	169.3	904.4	1717.7	1645.0
82.5°	139.8	144.4	121.4	109.5	104.0	97.5	115.9	117.8	294.4	608.1	687.2
85°	89.2	91.1	74.5	64.4	61.6	58.9	73.6	64.4	112.2	447.1	649.5
87.5°	31.3	35.9	28.5	25.8	27.6	23.0	34.0	19.3	31.3	315.6	391.0
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)