

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: P962892

Luminaire Tested: **NAV-SB2D-722-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962892
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-722-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17046.8 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

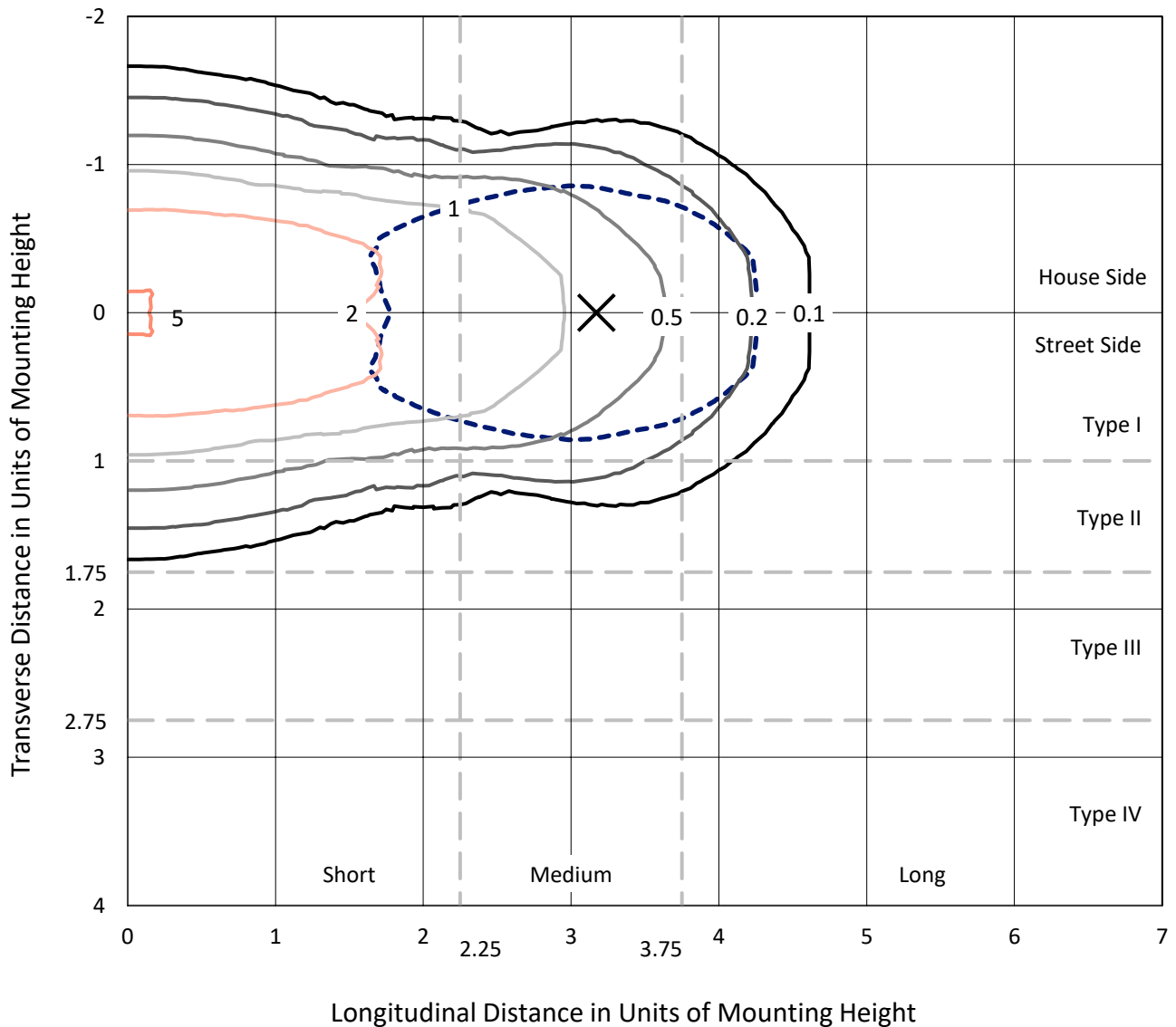
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

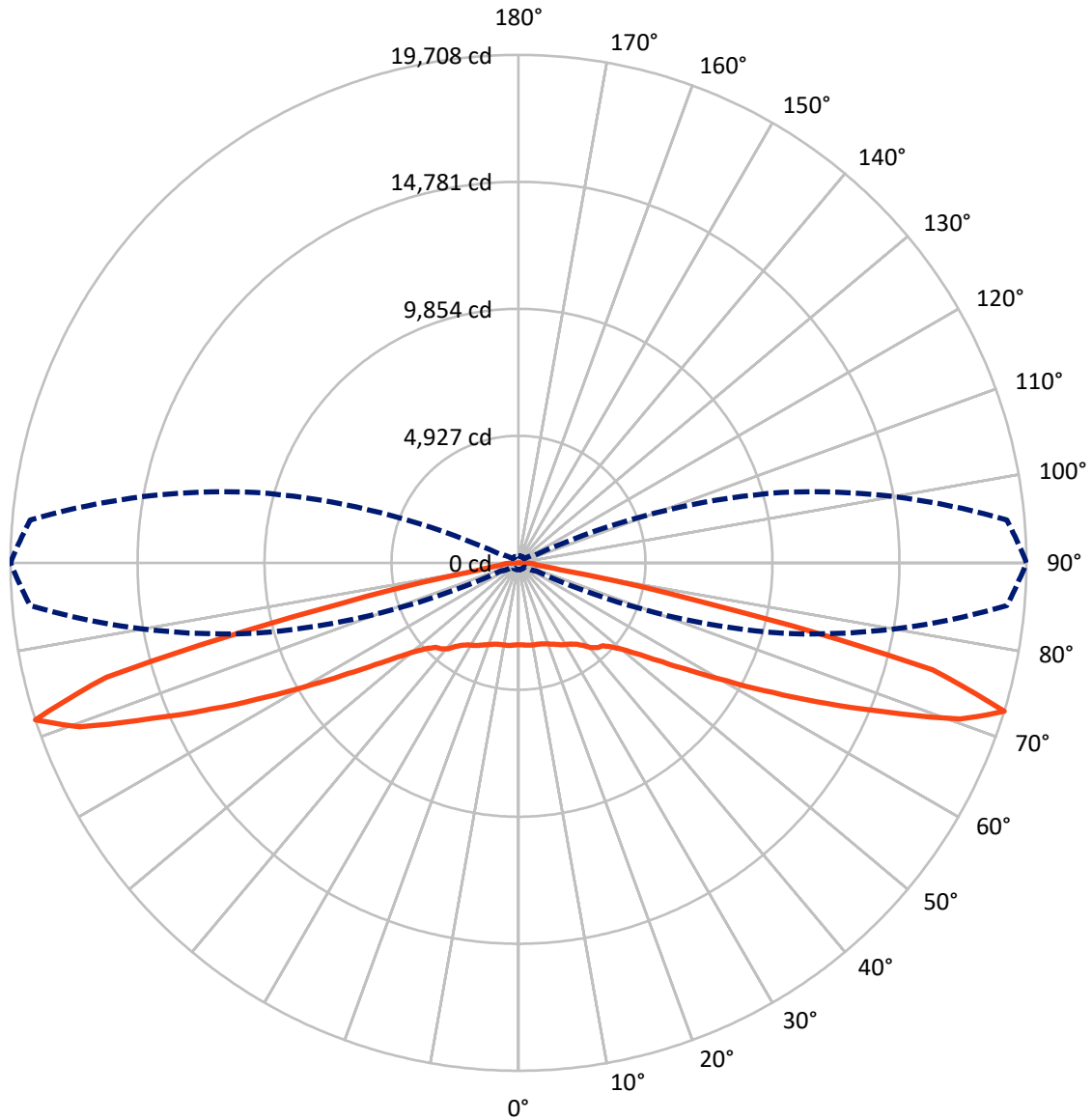
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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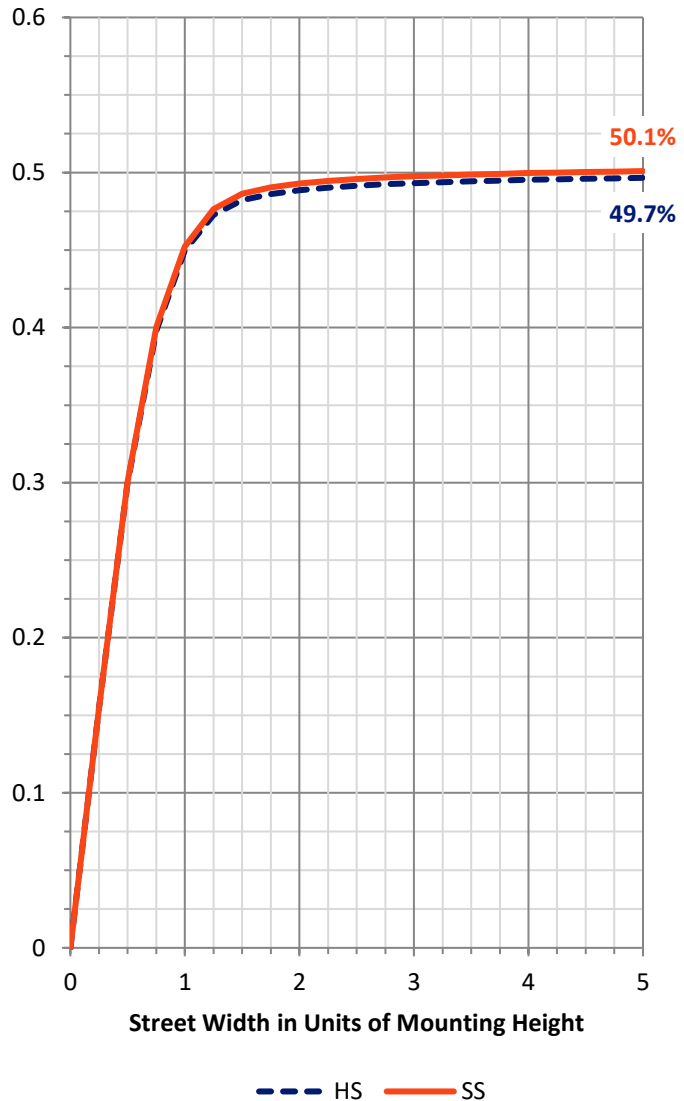
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8523.4	0.0	8523.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8523.4	0.0	8523.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	17046.8	0.0	17046.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	308.9	1.8
10°-20°	944.4	5.5
20°-30°	1574.7	9.2
30°-40°	2165.6	12.7
40°-50°	2644.8	15.5
50°-60°	3059.0	17.9
60°-70°	3647.4	21.4
70°-80°	2545.6	14.9
80°-90°	156.4	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°	17046.8	100.0
0°-180°	17046.8	100.0

Coefficient of Utilization

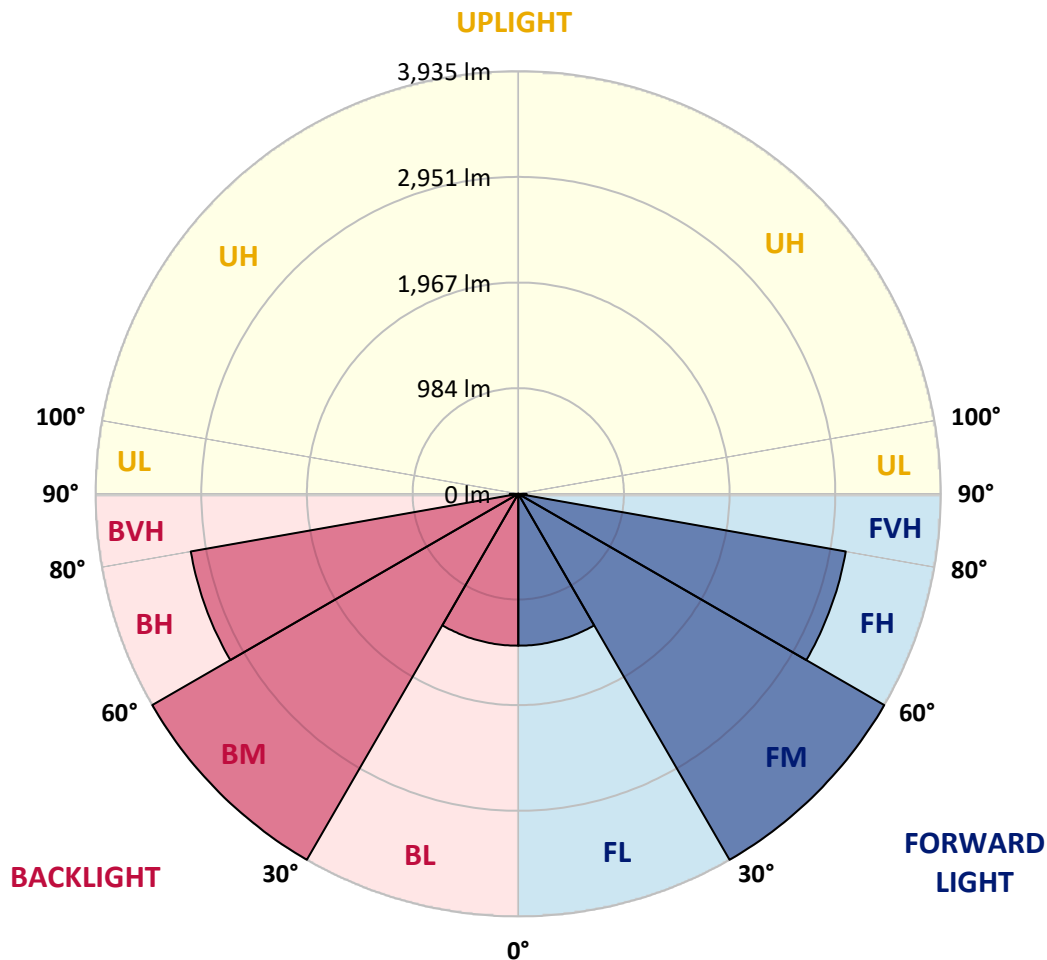


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1413.9	8.3			
FM (30°-60°)	3934.8	23.1			
FH (60°-80°)	3096.5	18.2			G2/5000
FVH (80°-90°)	78.2	0.5			G1/100
BL (0°-30°)	1413.9	8.3	B3/2500		
BM (30°-60°)	3934.8	23.1	B3/5000		
BH (60°-80°)	3096.5	18.2	B4/5000		G4/5000
BVH (80°-90°)	78.2	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°	3185.4	3185.4	3185.4	3185.4	3185.4	3185.4	3185.4	3185.4	3185.4	3185.4	3185.4
2.5°	3188.1	3191.7	3191.7	3189.0	3195.3	3189.9	3189.9	3187.1	3189.9	3187.1	3187.1
5°	3204.4	3209.0	3210.7	3209.8	3218.0	3213.5	3213.5	3209.8	3210.7	3208.0	3208.0
7.5°	3235.2	3241.6	3245.1	3249.7	3261.4	3256.0	3252.4	3241.6	3237.1	3229.8	3229.8
10°	3245.1	3252.4	3264.2	3287.8	3315.0	3315.9	3304.9	3277.7	3256.9	3240.6	3237.9
12.5°	3214.4	3224.3	3248.7	3296.8	3357.5	3382.0	3364.8	3319.5	3278.7	3249.7	3245.1
15°	3175.4	3186.3	3223.4	3295.9	3385.6	3442.7	3440.8	3381.1	3315.9	3270.6	3263.3
17.5°	3114.7	3125.5	3179.0	3280.5	3407.3	3501.5	3526.9	3465.3	3373.8	3313.1	3303.2
20°	3005.1	3015.0	3089.4	3231.6	3414.6	3564.0	3630.2	3575.8	3461.7	3379.2	3363.8
22.5°	2862.8	2878.2	2965.2	3147.4	3397.4	3629.3	3748.0	3710.8	3564.0	3449.9	3429.0
25°	2710.6	2726.9	2828.4	3044.0	3353.0	3676.4	3887.5	3863.9	3680.1	3537.8	3508.8
27.5°	2579.3	2596.5	2707.0	2941.6	3284.1	3694.5	4025.2	4037.0	3820.5	3634.8	3603.9
30°	2476.0	2492.3	2610.1	2859.2	3195.3	3676.4	4145.7	4227.2	3963.6	3719.0	3674.6
32.5°	2362.7	2383.6	2507.7	2758.7	3090.3	3632.9	4250.8	4432.9	4129.4	3809.6	3753.4
35°	2219.6	2238.6	2369.1	2620.9	2952.5	3563.2	4338.6	4661.2	4366.7	3947.3	3884.7
37.5°	2045.7	2063.8	2193.3	2448.8	2815.8	3465.3	4405.7	4918.5	4649.4	4145.7	4062.4
40°	1870.8	1888.0	2009.4	2256.7	2651.8	3340.3	4429.2	5170.3	4973.7	4418.4	4329.6
42.5°	1710.4	1725.9	1837.3	2067.4	2467.9	3180.9	4398.5	5389.6	5264.6	4608.6	4494.5
45°	1562.8	1576.3	1675.2	1889.8	2276.7	2987.0	4306.0	5625.1	5610.6	4744.5	4590.6
47.5°	1394.3	1407.8	1510.2	1717.7	2085.6	2759.6	4149.3	5857.1	6091.7	5052.5	4875.0
50°	1188.6	1200.4	1305.5	1519.3	1887.1	2517.7	3931.9	6039.2	6698.7	5519.1	5296.3
52.5°	944.9	957.6	1060.0	1273.8	1651.6	2257.7	3645.6	6157.8	7399.9	6200.4	5925.9
55°	703.0	712.1	800.8	992.9	1359.9	1961.4	3286.9	6191.4	8195.4	7131.7	6788.4
57.5°	510.0	515.5	572.6	715.8	1030.9	1590.9	2851.0	6104.4	9142.1	8325.8	7893.6
60°	413.1	414.9	432.1	495.6	716.6	1172.3	2324.7	5805.4	10169.4	9865.0	9320.5
62.5°	375.0	375.0	379.6	396.8	484.7	773.7	1687.8	5185.8	11271.1	11810.2	11080.9
65°	348.8	348.8	350.7	358.7	382.3	492.8	1065.4	4176.5	12199.8	14088.6	13166.3
67.5°	325.2	326.2	325.2	328.0	341.5	364.2	617.9	2884.6	12699.9	16449.6	15453.9
70°	300.7	302.6	298.1	298.1	308.9	309.9	386.8	1581.8	12284.8	18428.2	18166.4
72.5°	271.8	274.5	267.2	265.5	273.6	270.0	290.8	759.2	10547.2	19018.9	19707.5
75°	246.4	250.0	233.7	229.2	229.2	226.5	236.5	389.6	6845.5	15514.6	16594.5
77.5°	223.8	231.0	204.8	190.2	186.7	178.5	193.0	238.3	2994.2	7284.0	7132.7
80°	184.8	194.7	168.5	151.3	144.9	135.9	152.2	166.7	890.5	1691.5	1619.9
82.5°	137.7	142.3	119.6	107.8	102.4	96.0	114.2	115.9	289.9	598.8	676.7
85°	87.8	89.7	73.4	63.4	60.7	58.0	72.5	63.4	110.5	440.3	639.6
87.5°	30.9	35.4	28.1	25.3	27.2	22.7	33.5	19.1	30.9	310.8	385.0
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)