

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: P967139

Luminaire Tested: **NAV-SB4D-727-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P967139
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-SB4D-727-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38357.6 lumens
Efficiency: N/A
Efficacy: 130.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

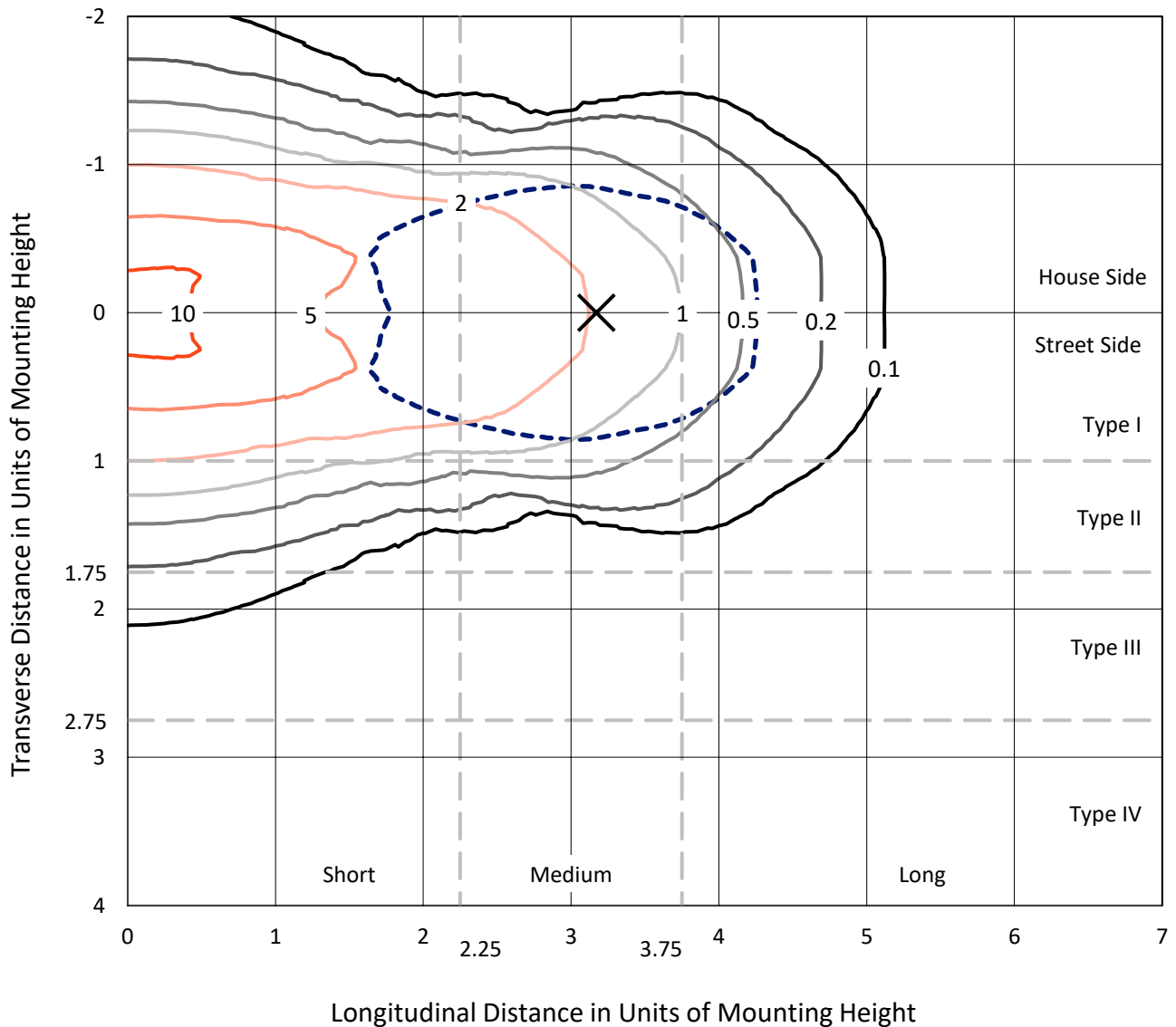
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

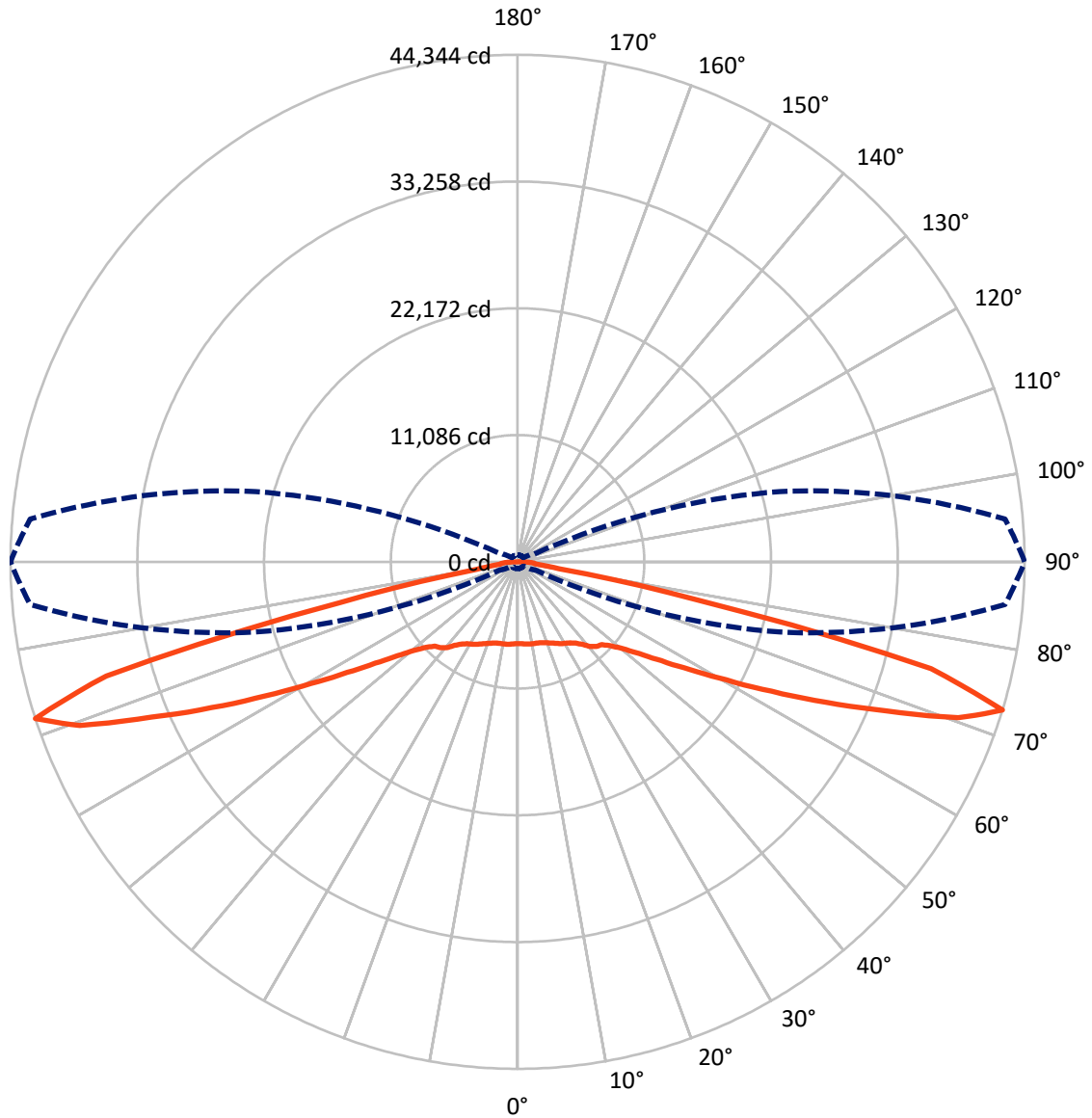
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 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	19178.8	0.0	19178.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	19178.8	0.0	19178.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	38357.6	0.0	38357.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	695.0	1.8
10°-20°	2125.0	5.5
20°-30°	3543.2	9.2
30°-40°	4873.0	12.7
40°-50°	5951.2	15.5
50°-60°	6883.2	17.9
60°-70°	8207.1	21.4
70°-80°	5728.0	14.9
80°-90°	351.8	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°	38357.6	100.0
0°-180°	38357.6	100.0

Coefficient of Utilization

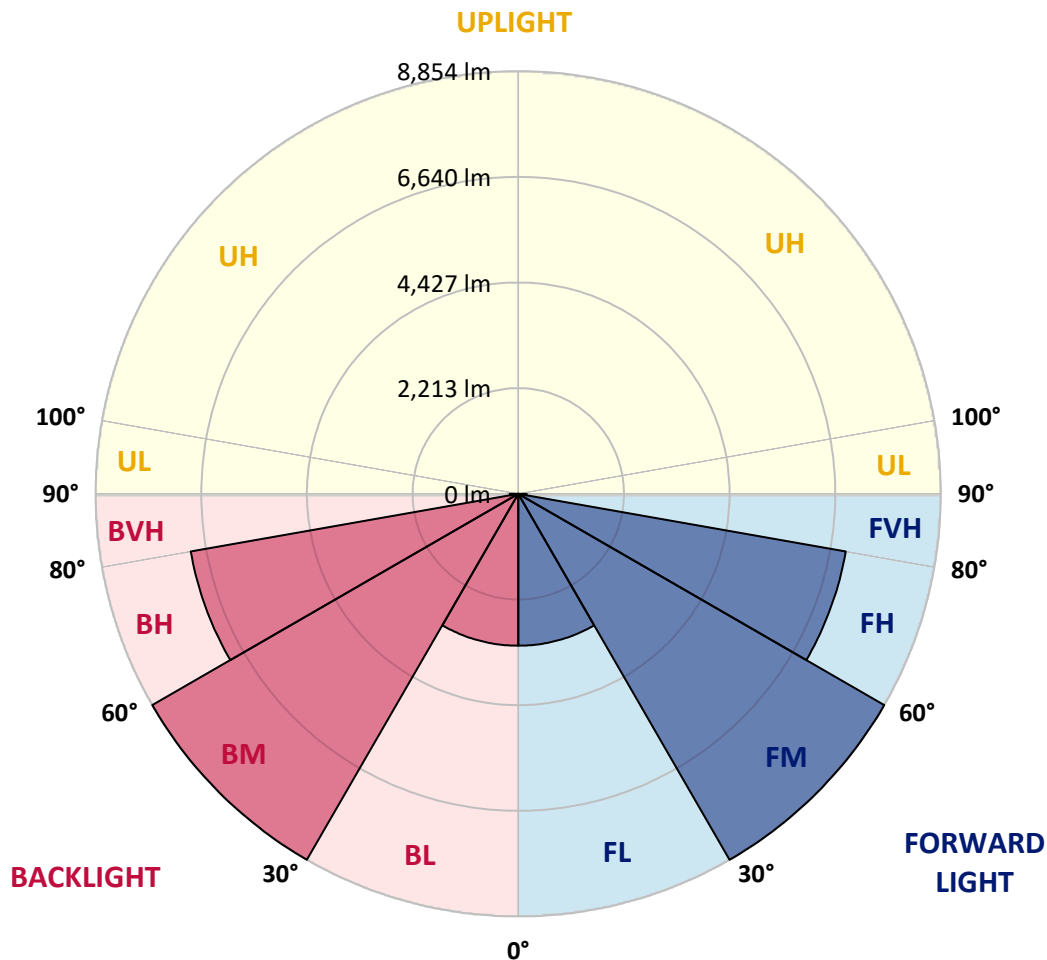


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3181.6	8.3			
FM (30°-60°)	8853.7	23.1			
FH (60°-80°)	6967.6	18.2			G3/7500
FVH (80°-90°)	175.9	0.5			G2/225
BL (0°-30°)	3181.6	8.3	B4/5000		
BM (30°-60°)	8853.7	23.1	B5		
BH (60°-80°)	6967.6	18.2	B5		G5
BVH (80°-90°)	175.9	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5
 Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7167.5	7167.5	7167.5	7167.5	7167.5	7167.5	7167.5	7167.5	7167.5	7167.5	7167.5
2.5°	7173.7	7181.8	7181.8	7175.7	7190.0	7177.7	7177.7	7171.6	7177.7	7171.6	7171.6
5°	7210.4	7220.5	7224.6	7222.6	7240.9	7230.7	7230.7	7222.6	7224.6	7218.5	7218.5
7.5°	7279.7	7293.9	7302.1	7312.2	7338.8	7326.5	7318.4	7293.9	7283.8	7267.4	7267.4
10°	7302.1	7318.4	7344.8	7397.8	7459.0	7461.1	7436.6	7375.5	7328.5	7291.8	7285.7
12.5°	7232.7	7255.2	7310.2	7418.2	7554.9	7609.9	7571.2	7469.2	7377.4	7312.2	7302.1
15°	7145.1	7169.6	7253.1	7416.2	7618.0	7746.4	7742.3	7607.9	7461.1	7359.1	7342.8
17.5°	7008.5	7032.9	7153.3	7381.5	7667.0	7879.0	7936.1	7797.4	7591.6	7454.9	7432.5
20°	6761.8	6784.3	6951.4	7271.5	7683.3	8019.6	8168.4	8046.1	7789.3	7603.8	7569.1
22.5°	6441.8	6476.5	6672.1	7081.9	7644.6	8166.4	8433.5	8349.9	8019.6	7762.7	7715.9
25°	6099.4	6136.1	6364.3	6849.5	7544.6	8272.4	8747.3	8694.4	8280.6	7960.5	7895.3
27.5°	5803.8	5842.5	6091.2	6619.1	7389.7	8313.2	9057.2	9083.8	8596.6	8178.7	8109.3
30°	5571.3	5608.0	5873.0	6433.6	7190.0	8272.4	9328.3	9511.8	8918.6	8368.2	8268.4
32.5°	5316.5	5363.4	5642.7	6207.4	6953.5	8174.6	9564.8	9974.6	9291.6	8572.1	8445.7
35°	4994.4	5037.3	5330.8	5897.5	6643.6	8017.6	9762.6	10488.3	9825.8	8881.9	8741.3
37.5°	4603.1	4643.8	4935.3	5510.2	6335.8	7797.4	9913.4	11067.2	10461.8	9328.3	9140.8
40°	4209.6	4248.3	4521.5	5078.1	5966.8	7516.1	9966.4	11634.0	11191.6	9942.0	9742.2
42.5°	3848.8	3883.4	4134.1	4652.0	5552.9	7157.4	9897.1	12127.3	11845.9	10370.0	10113.2
45°	3516.5	3547.0	3769.2	4252.4	5122.8	6721.0	9689.2	12657.3	12624.7	10675.9	10329.3
47.5°	3137.3	3167.9	3398.3	3865.1	4692.8	6209.3	9336.5	13179.1	13707.1	11369.0	10969.3
50°	2674.5	2701.1	2937.5	3418.7	4246.3	5665.1	8847.3	13588.9	15072.9	12418.8	11917.3
52.5°	2126.2	2154.8	2385.1	2866.2	3716.2	5080.0	8203.1	13856.0	16650.8	13951.8	13334.1
55°	1581.9	1602.3	1802.1	2234.2	3059.8	4413.4	7395.8	13931.4	18440.7	16047.4	15274.8
57.5°	1147.7	1159.9	1288.3	1610.5	2319.9	3579.7	6415.3	13735.7	20570.9	18734.2	17761.8
60°	929.6	933.7	972.4	1115.1	1612.5	2637.8	5230.9	13063.0	22882.6	22197.7	20972.5
62.5°	844.0	844.0	854.1	892.9	1090.6	1741.0	3797.8	11668.6	25361.5	26574.5	24933.4
65°	784.8	784.8	788.9	807.3	860.3	1108.9	2397.4	9397.7	27451.0	31701.4	29626.1
67.5°	731.8	733.9	731.8	738.0	768.5	819.5	1390.3	6490.7	28576.3	37013.8	34773.4
70°	676.8	680.9	670.7	670.7	695.2	697.2	870.4	3559.3	27642.6	41466.0	40876.8
72.5°	611.5	617.7	601.4	597.3	615.6	607.5	654.4	1708.3	23732.7	42795.1	44344.4
75°	554.5	562.6	525.9	515.8	515.8	509.6	532.1	876.6	15403.2	34910.1	37339.9
77.5°	503.5	519.8	460.7	428.1	419.9	401.6	434.2	536.2	6737.4	16389.9	16049.4
80°	415.8	438.3	379.1	340.4	326.2	305.8	342.5	375.0	2003.9	3805.9	3644.9
82.5°	309.9	320.0	269.1	242.6	230.3	216.1	256.9	261.0	652.3	1347.5	1522.7
85°	197.7	201.8	165.1	142.7	136.6	130.5	163.1	142.7	248.7	990.8	1439.2
87.5°	69.3	79.5	63.2	57.1	61.2	50.9	75.4	42.8	69.3	699.3	866.3
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)