

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: P965031

Luminaire Tested: **NAV-SB3D-727-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P965031
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-SB3D-727-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 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: 28715.3 lumens
Efficiency: N/A
Efficacy: 131.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

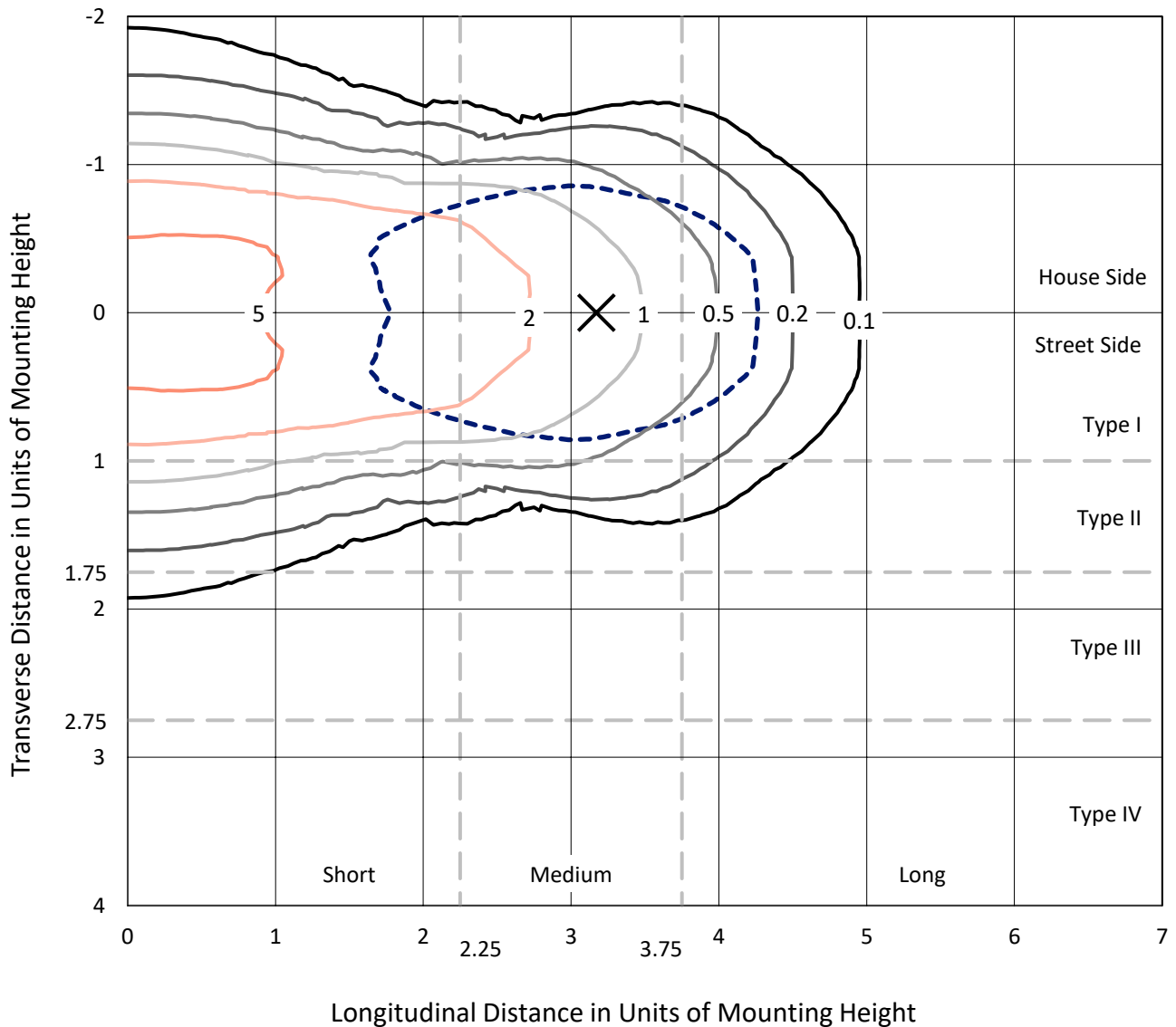
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

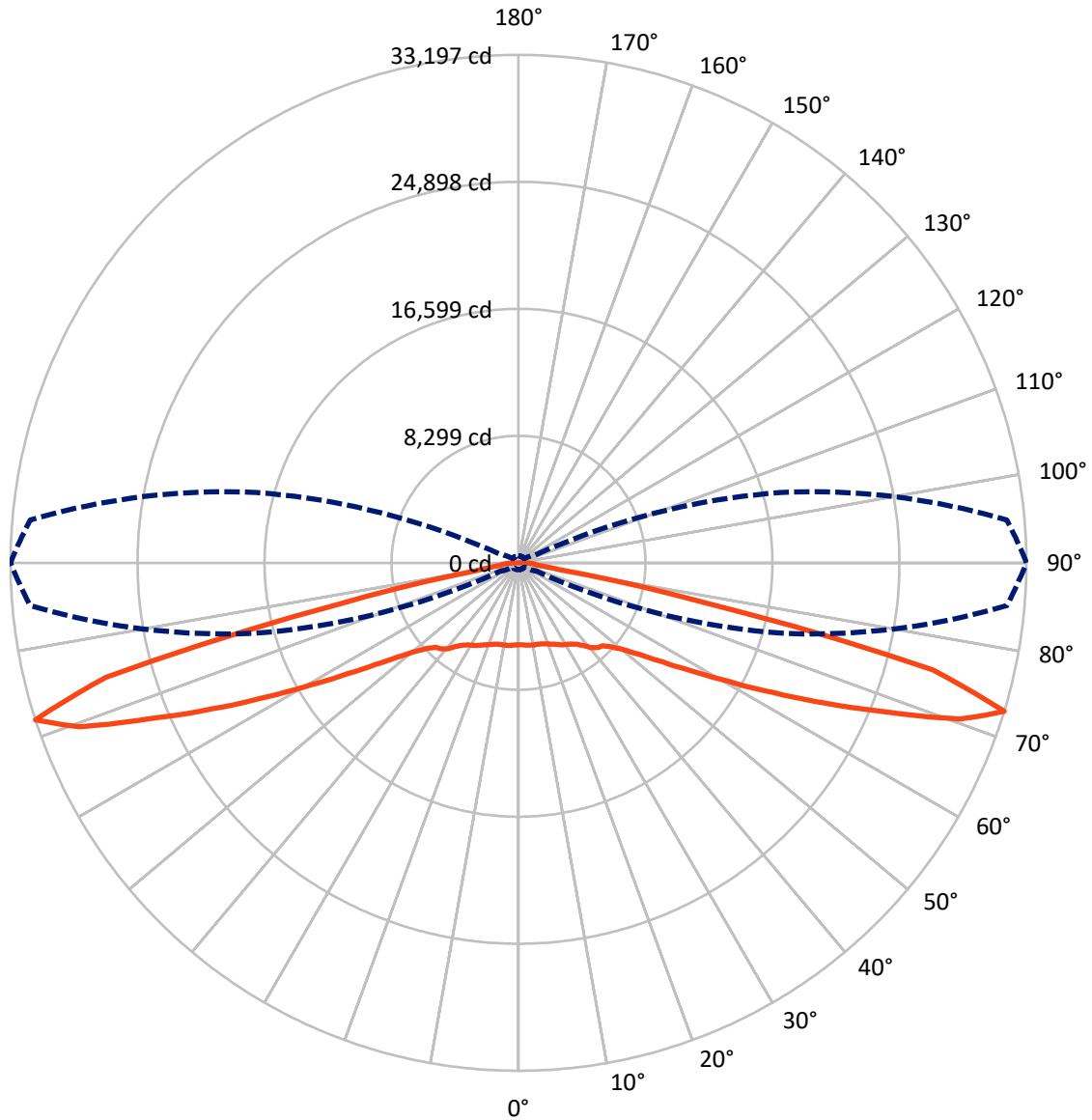
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 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	14357.7	0.0	14357.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14357.7	0.0	14357.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	28715.3	0.0	28715.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	520.3	1.8
10°-20°	1590.8	5.5
20°-30°	2652.5	9.2
30°-40°	3648.0	12.7
40°-50°	4455.2	15.5
50°-60°	5153.0	17.9
60°-70°	6144.0	21.4
70°-80°	4288.1	14.9
80°-90°	263.4	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°	28715.3	100.0
0°-180°	28715.3	100.0

Coefficient of Utilization

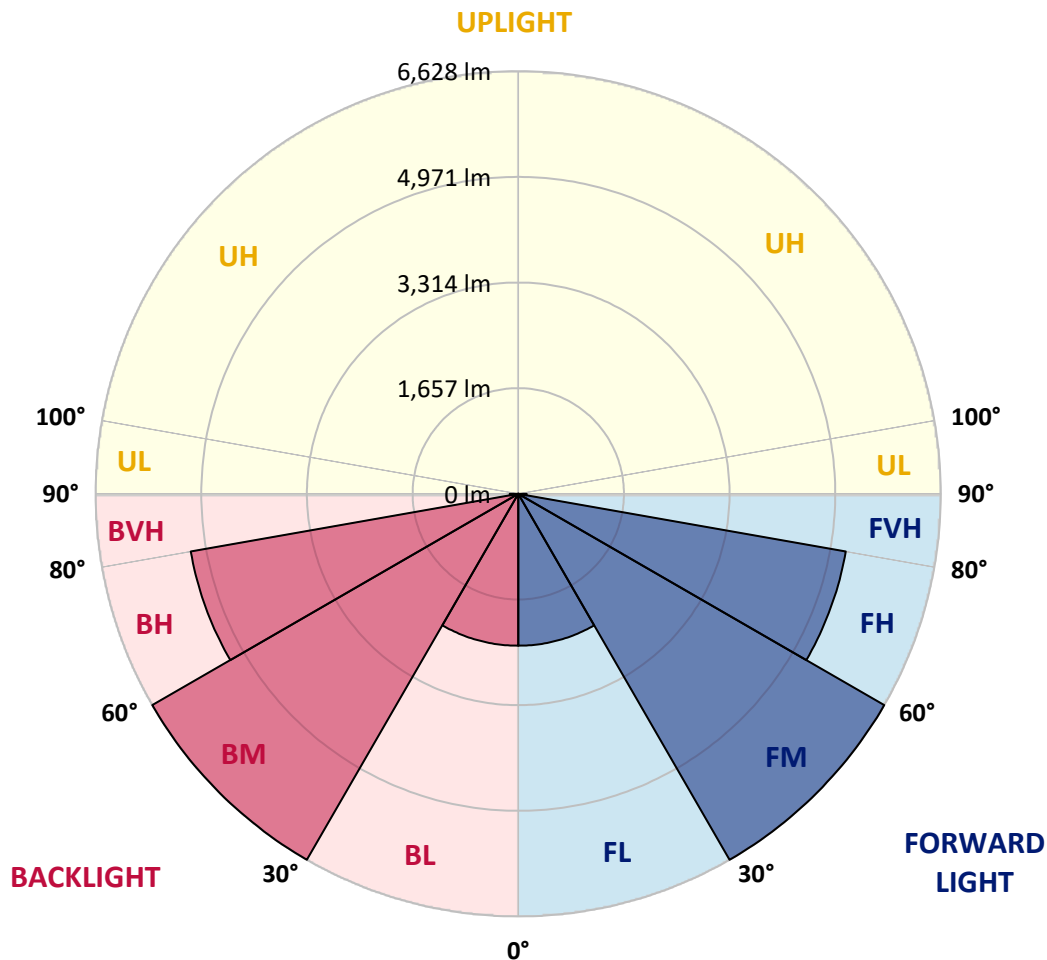


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2381.8	8.3			
FM (30°-60°)	6628.1	23.1			
FH (60°-80°)	5216.1	18.2			G3/7500
FVH (80°-90°)	131.7	0.5			G2/225
BL (0°-30°)	2381.8	8.3	B3/2500		
BM (30°-60°)	6628.1	23.1	B4/8500		
BH (60°-80°)	5216.1	18.2	B5		G5
BVH (80°-90°)	131.7	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°	5365.8	5365.8	5365.8	5365.8	5365.8	5365.8	5365.8	5365.8	5365.8	5365.8	5365.8
2.5°	5370.4	5376.4	5376.4	5371.9	5382.6	5373.4	5373.4	5368.8	5373.4	5368.8	5368.8
5°	5397.9	5405.4	5408.5	5407.0	5420.7	5413.1	5413.1	5407.0	5408.5	5403.9	5403.9
7.5°	5449.7	5460.4	5466.5	5474.1	5494.0	5484.8	5478.7	5460.4	5452.8	5440.6	5440.6
10°	5466.5	5478.7	5498.5	5538.2	5584.0	5585.5	5567.2	5521.5	5486.3	5458.8	5454.3
12.5°	5414.6	5431.4	5472.6	5553.4	5655.7	5697.0	5667.9	5591.7	5523.0	5474.1	5466.5
15°	5349.0	5367.3	5429.8	5551.9	5703.0	5799.1	5796.2	5695.4	5585.5	5509.3	5497.0
17.5°	5246.8	5265.0	5355.1	5526.0	5739.7	5898.4	5941.1	5837.4	5683.2	5580.9	5564.2
20°	5062.1	5078.9	5204.0	5443.6	5751.9	6003.6	6115.0	6023.5	5831.2	5692.3	5666.4
22.5°	4822.5	4848.5	4994.9	5301.7	5722.9	6113.5	6313.5	6250.9	6003.6	5811.4	5776.3
25°	4566.1	4593.5	4764.5	5127.7	5648.1	6192.9	6548.5	6508.9	6199.0	5959.5	5910.6
27.5°	4344.8	4373.8	4560.0	4955.3	5532.1	6223.4	6780.5	6800.3	6435.6	6122.7	6070.9
30°	4170.8	4198.3	4396.7	4816.4	5382.6	6192.9	6983.4	7120.8	6676.6	6264.6	6189.9
32.5°	3980.1	4015.1	4224.2	4646.9	5205.6	6119.7	7160.4	7467.2	6956.0	6417.2	6322.6
35°	3739.0	3771.0	3990.7	4415.0	4973.6	6002.2	7308.5	7851.8	7355.8	6649.2	6543.9
37.5°	3445.9	3476.5	3694.7	4125.0	4743.1	5837.4	7421.4	8285.2	7831.9	6983.4	6843.0
40°	3151.4	3180.4	3384.9	3801.5	4466.8	5626.7	7461.1	8709.4	8378.2	7442.8	7293.3
42.5°	2881.3	2907.2	3094.9	3482.5	4157.1	5358.2	7409.2	9078.7	8868.2	7763.2	7571.0
45°	2632.5	2655.4	2821.7	3183.4	3835.1	5031.5	7253.5	9475.5	9451.1	7992.2	7732.7
47.5°	2348.7	2371.5	2544.0	2893.5	3513.1	4648.5	6989.6	9866.2	10261.5	8511.1	8212.0
50°	2002.2	2022.1	2199.1	2559.3	3178.8	4241.0	6623.2	10173.0	11284.0	9297.1	8921.6
52.5°	1591.7	1613.0	1785.6	2145.7	2782.1	3803.1	6141.0	10372.9	12465.2	10444.6	9982.3
55°	1184.3	1199.6	1349.1	1672.6	2290.7	3304.0	5536.7	10429.4	13805.1	12013.5	11435.1
57.5°	859.2	868.4	964.5	1205.6	1736.7	2679.9	4802.6	10282.9	15399.9	14024.9	13296.9
60°	695.9	698.9	728.0	834.8	1207.1	1974.8	3916.0	9779.2	17130.5	16617.7	15700.5
62.5°	631.8	631.8	639.4	668.4	816.5	1303.3	2843.1	8735.4	18986.2	19894.2	18665.8
65°	587.5	587.5	590.6	604.3	644.0	830.2	1794.7	7035.3	20550.4	23732.4	22178.8
67.5°	547.9	549.4	547.9	552.5	575.3	613.5	1040.8	4859.1	21392.9	27709.4	26032.2
70°	506.7	509.7	502.0	502.0	520.4	521.9	651.7	2664.6	20693.9	31042.4	30601.4
72.5°	457.9	462.4	450.2	447.1	460.8	454.8	489.8	1278.9	17766.8	32037.4	33197.3
75°	415.1	421.2	393.7	386.1	386.1	381.5	398.3	656.2	11531.2	26134.5	27953.6
77.5°	377.0	389.2	344.9	320.5	314.4	300.6	325.0	401.4	5043.7	12269.9	12014.9
80°	311.3	328.1	283.8	254.8	244.2	228.9	256.4	280.8	1500.2	2849.2	2728.7
82.5°	232.0	239.6	201.4	181.6	172.4	161.7	192.3	195.4	488.3	1008.7	1140.0
85°	148.0	151.1	123.6	106.8	102.3	97.7	122.1	106.8	186.1	741.7	1077.4
87.5°	51.9	59.6	47.4	42.7	45.8	38.1	56.5	32.1	51.9	523.5	648.6
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)