

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: P965093

Luminaire Tested: **NAV-SB3D-735-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P965093
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-735-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30959.1 lumens
Efficiency: N/A
Efficacy: 141.9 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



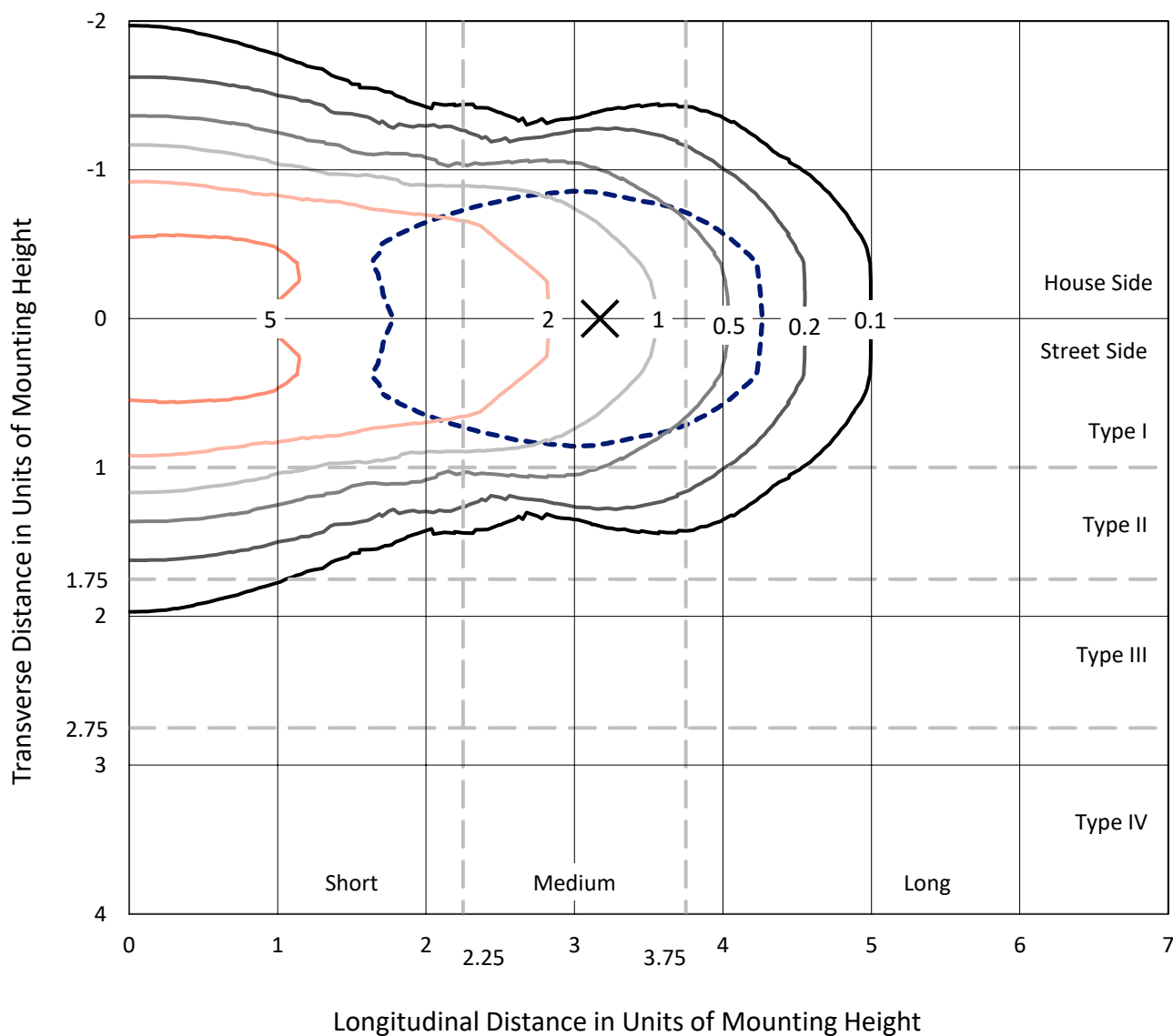
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

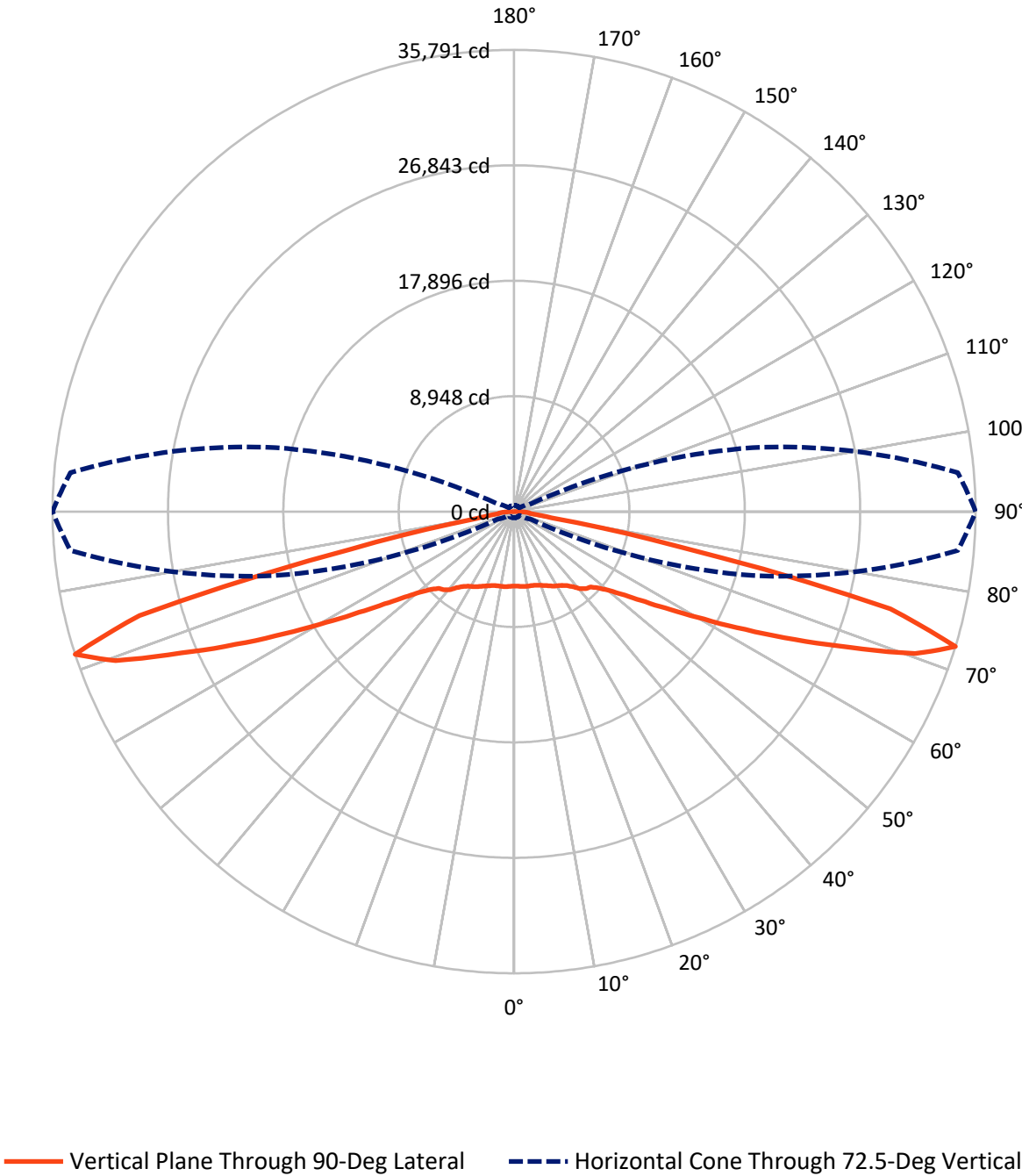


Based on 25 foot mounting height. Maximum calculated value = 9.3 fc

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	15479.5	0.0	15479.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15479.5	0.0	15479.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	30959.1	0.0	30959.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	560.9	1.8
10°-20°	1715.1	5.5
20°-30°	2859.8	9.2
30°-40°	3933.1	12.7
40°-50°	4803.3	15.5
50°-60°	5555.6	17.9
60°-70°	6624.1	21.4
70°-80°	4623.2	14.9
80°-90°	284.0	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°	30959.1	100.0
0°-180°	30959.1	100.0

Coefficient of Utilization



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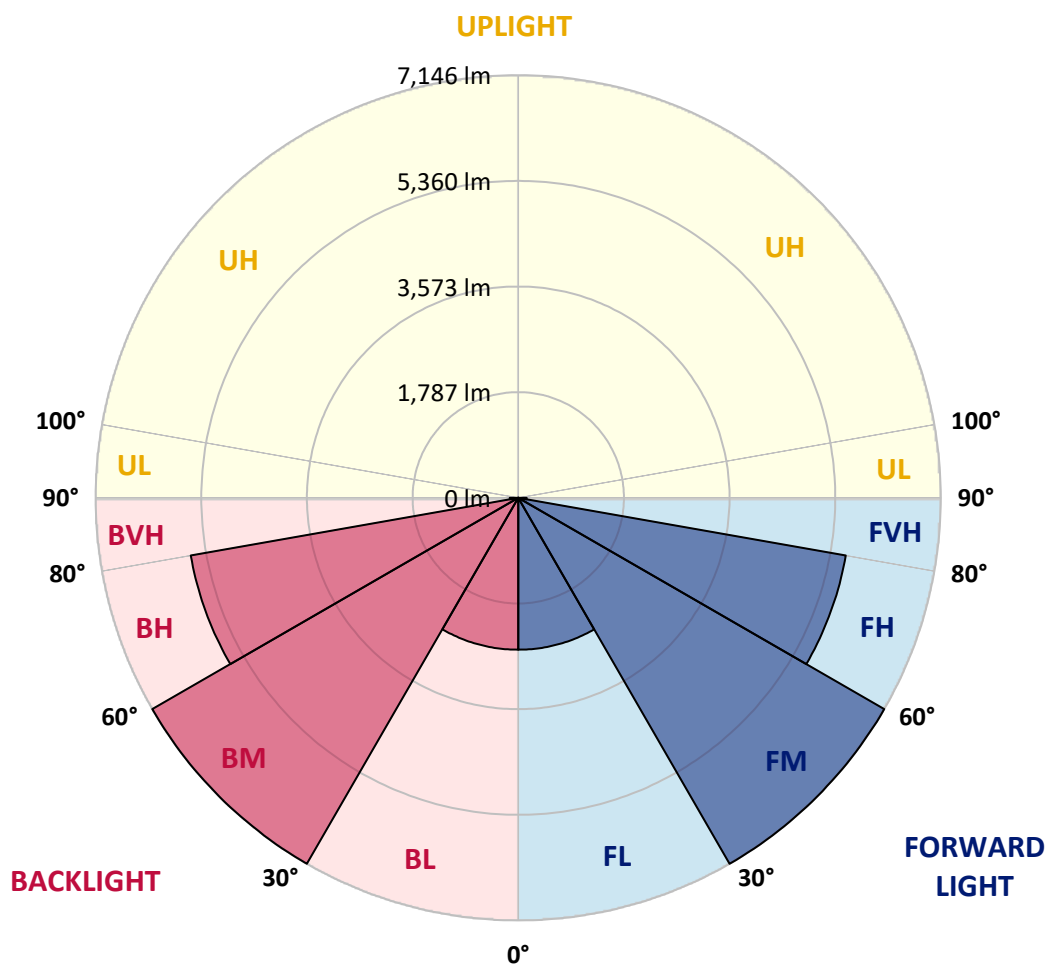
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2567.9	8.3			
FM	(30°-60°)	7146.0	23.1			
FH	(60°-80°)	5623.7	18.2			G3/7500
FVH	(80°-90°)	142.0	0.5			G2/225
BL	(0°-30°)	2567.9	8.3	B4/5000		
BM	(30°-60°)	7146.0	23.1	B4/8500		
BH	(60°-80°)	5623.7	18.2	B5		G5
BVH	(80°-90°)	142.0	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°	5785.0	5785.0	5785.0	5785.0	5785.0	5785.0	5785.0	5785.0	5785.0	5785.0	5785.0
2.5°	5790.0	5796.6	5796.6	5791.7	5803.1	5793.3	5793.3	5788.3	5793.3	5788.3	5788.3
5°	5819.5	5827.8	5831.1	5829.5	5844.2	5836.0	5836.0	5829.5	5831.1	5826.2	5826.2
7.5°	5875.5	5887.1	5893.6	5901.8	5923.3	5913.3	5906.8	5887.1	5878.8	5865.7	5865.7
10°	5893.6	5906.8	5928.2	5970.9	6020.3	6022.0	6002.2	5952.9	5915.0	5885.4	5880.4
12.5°	5837.7	5855.8	5900.2	5987.4	6097.6	6142.1	6110.8	6028.5	5954.5	5901.8	5893.6
15°	5767.0	5786.6	5854.2	5985.8	6148.7	6252.3	6249.0	6140.5	6022.0	5939.7	5926.5
17.5°	5656.7	5676.4	5773.5	5957.8	6188.1	6359.3	6405.3	6293.4	6127.2	6017.1	5998.9
20°	5457.6	5475.8	5610.6	5868.9	6201.4	6472.8	6592.9	6494.2	6286.8	6137.2	6109.2
22.5°	5199.3	5227.3	5385.2	5715.9	6170.1	6591.3	6806.8	6739.4	6472.8	6265.5	6227.6
25°	4922.9	4952.5	5136.8	5528.3	6089.4	6676.8	7060.2	7017.4	6683.4	6425.1	6372.4
27.5°	4684.2	4715.5	4916.3	5342.4	5964.4	6709.8	7310.3	7331.6	6938.4	6601.1	6545.1
30°	4496.8	4526.3	4740.2	5192.8	5803.1	6676.8	7529.1	7677.1	7198.4	6754.1	6673.6
32.5°	4291.1	4328.9	4554.3	5010.1	5612.3	6597.8	7720.0	8050.7	7499.5	6918.6	6816.7
35°	4031.1	4065.7	4302.5	4760.0	5362.2	6471.1	7879.6	8465.3	7930.5	7168.7	7055.3
37.5°	3715.2	3748.1	3983.4	4447.4	5113.7	6293.4	8001.4	8932.6	8443.9	7529.1	7377.7
40°	3397.7	3428.9	3649.4	4098.6	4816.0	6066.4	8044.1	9390.0	9032.9	8024.3	7863.1
42.5°	3106.4	3134.3	3336.8	3754.7	4481.9	5776.8	7988.1	9788.1	9561.1	8369.8	8162.6
45°	2838.2	2862.9	3042.2	3432.2	4134.7	5424.7	7820.3	10216.0	10189.6	8616.7	8336.9
47.5°	2532.2	2556.9	2742.8	3119.6	3787.6	5011.7	7535.7	10637.1	11063.3	9176.1	8853.6
50°	2158.6	2180.1	2370.9	2759.2	3427.3	4572.4	7140.8	10967.9	12165.7	10023.5	9618.7
52.5°	1716.1	1739.1	1925.1	2313.3	2999.5	4100.2	6620.9	11183.4	13439.2	11260.8	10762.2
55°	1276.7	1293.2	1454.5	1803.3	2469.6	3562.2	5969.3	11244.2	14883.8	12952.2	12328.6
57.5°	926.3	936.2	1039.9	1299.8	1872.4	2889.3	5177.9	11086.3	16603.2	15120.7	14335.9
60°	750.3	753.6	784.8	900.1	1301.4	2129.0	4222.0	10543.4	18469.0	17916.2	16927.4
62.5°	681.2	681.2	689.4	720.7	880.3	1405.2	3065.3	9418.0	20469.8	21448.7	20124.2
65°	633.4	633.4	636.7	651.6	694.3	895.0	1934.9	7585.0	22156.2	25586.8	23911.8
67.5°	590.7	592.3	590.7	595.6	620.3	661.4	1122.2	5238.8	23064.4	29874.5	28066.3
70°	546.2	549.5	541.3	541.3	561.1	562.7	702.5	2872.8	22310.9	33468.0	32992.5
72.5°	493.6	498.6	485.3	482.1	496.9	490.4	528.2	1378.8	19155.1	34540.8	35791.2
75°	447.5	454.1	424.5	416.3	416.3	411.3	429.5	707.5	12432.2	28176.5	30137.8
77.5°	406.4	419.5	371.9	345.5	339.0	324.1	350.4	432.8	5437.8	13228.5	12953.8
80°	335.7	353.7	306.1	274.8	263.2	246.8	276.4	302.8	1617.3	3071.8	2941.9
82.5°	250.1	258.3	217.2	195.8	185.9	174.5	207.4	210.6	526.5	1087.5	1229.1
85°	159.6	162.9	133.2	115.2	110.2	105.3	131.6	115.2	200.7	799.6	1161.6
87.5°	56.0	64.2	51.0	46.0	49.4	41.1	60.9	34.5	56.0	564.4	699.3
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)