

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: P968255

Luminaire Tested: **NAV-SB5B-735-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968255
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-SB5B-735-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28843.5 lumens
Efficiency: N/A
Efficacy: 157.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 182.7
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



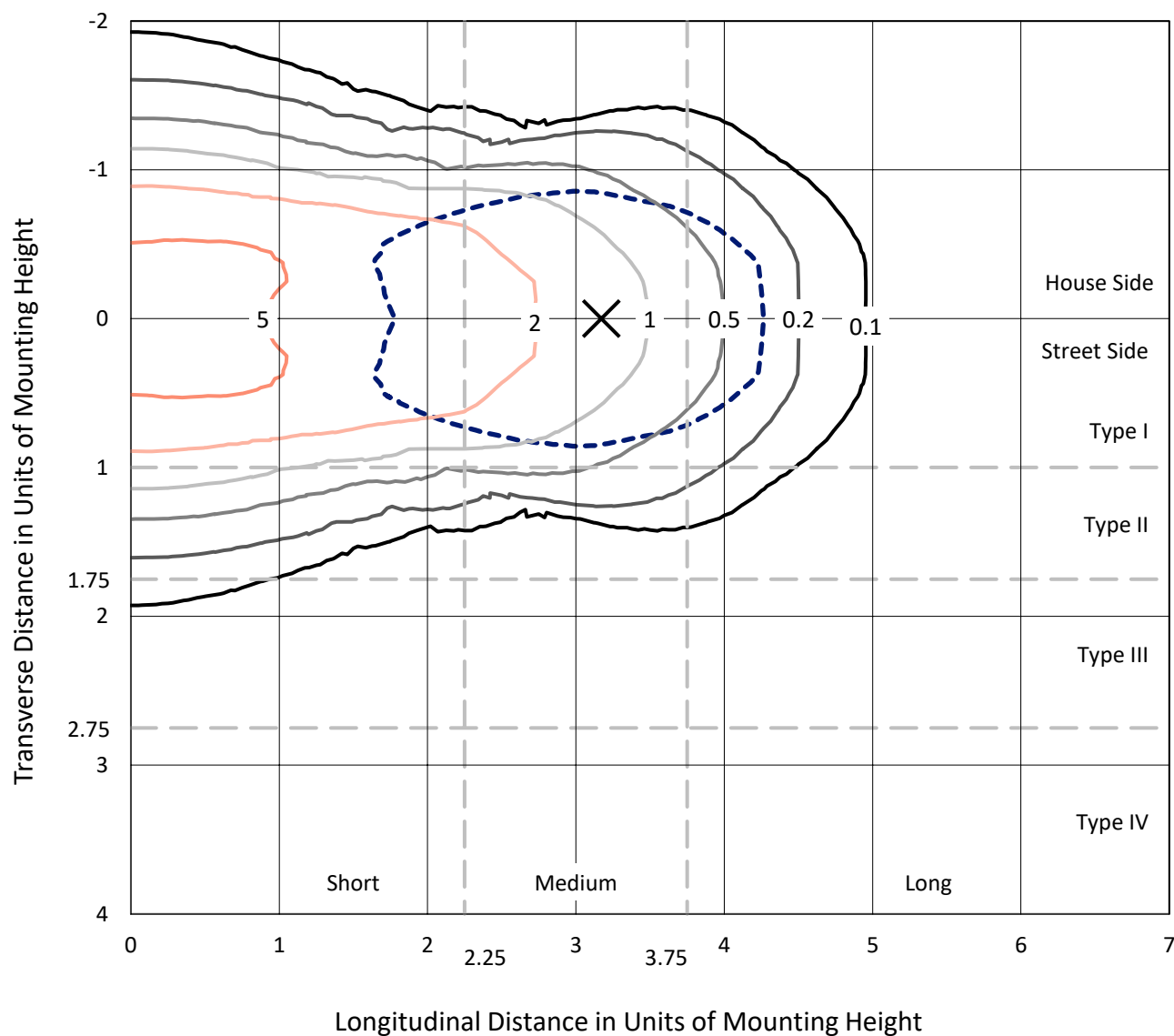
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

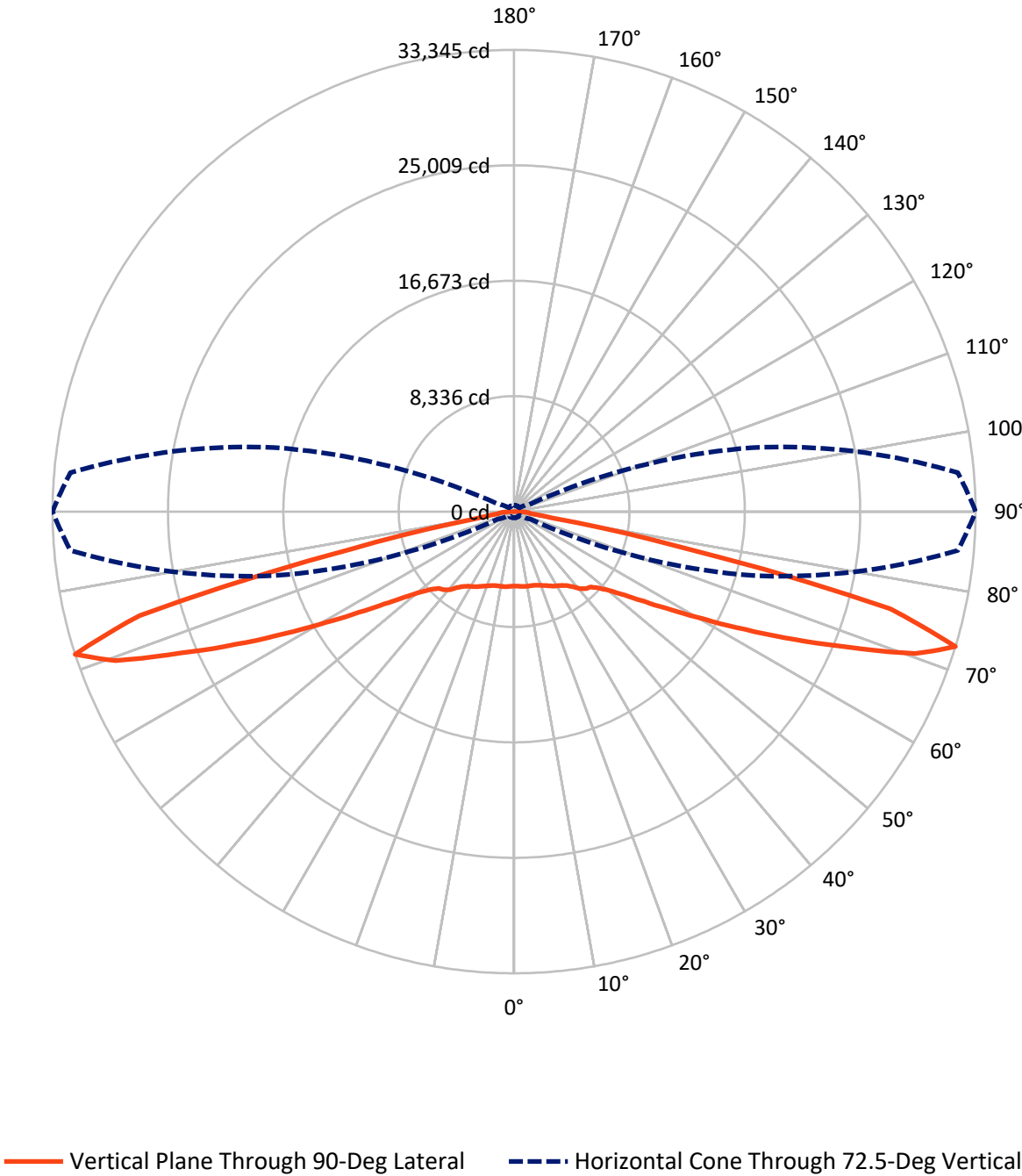


Based on 25 foot mounting height. Maximum calculated value = 8.6 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14421.8	0.0	14421.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14421.8	0.0	14421.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	28843.5	0.0	28843.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	522.6	1.8
10°-20°	1597.9	5.5
20°-30°	2664.3	9.2
30°-40°	3664.3	12.7
40°-50°	4475.1	15.5
50°-60°	5175.9	17.9
60°-70°	6171.5	21.4
70°-80°	4307.3	14.9
80°-90°	264.6	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°	28843.5	100.0
0°-180°	28843.5	100.0

Coefficient of Utilization



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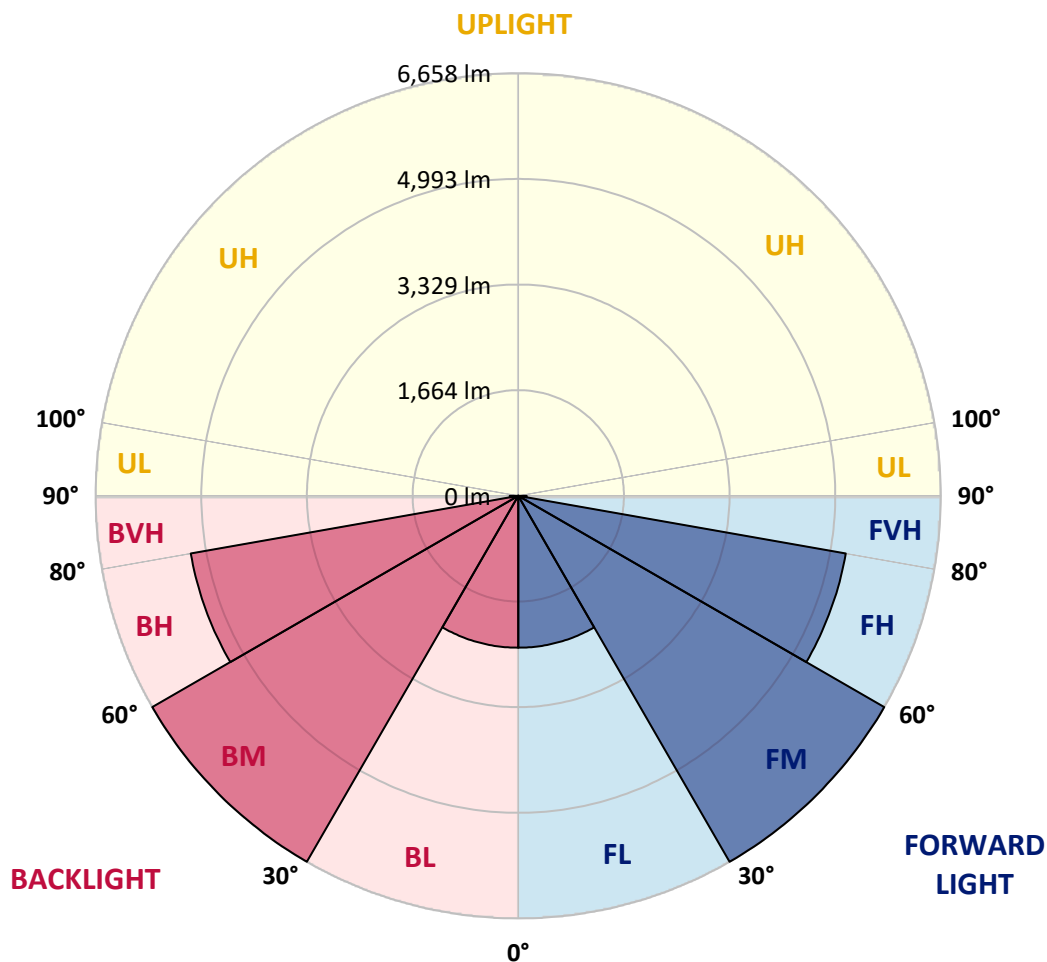
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2392.4	8.3			
FM	(30°-60°)	6657.7	23.1			
FH	(60°-80°)	5239.4	18.2			G3/7500
FVH	(80°-90°)	132.3	0.5			G2/225
BL	(0°-30°)	2392.4	8.3	B3/2500		
BM	(30°-60°)	6657.7	23.1	B4/8500		
BH	(60°-80°)	5239.4	18.2	B5		G5
BVH	(80°-90°)	132.3	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°	5389.8	5389.8	5389.8	5389.8	5389.8	5389.8	5389.8	5389.8	5389.8	5389.8	5389.8
2.5°	5394.3	5400.4	5400.4	5395.8	5406.6	5397.3	5397.3	5392.7	5397.3	5392.7	5392.7
5°	5421.9	5429.5	5432.6	5431.1	5444.9	5437.2	5437.2	5431.1	5432.6	5428.0	5428.0
7.5°	5474.0	5484.8	5490.9	5498.5	5518.5	5509.3	5503.1	5484.8	5477.1	5464.8	5464.8
10°	5490.9	5503.1	5523.1	5563.0	5608.9	5610.4	5592.1	5546.1	5510.8	5483.2	5478.6
12.5°	5438.8	5455.7	5497.0	5578.3	5681.0	5722.4	5693.3	5616.6	5547.6	5498.5	5490.9
15°	5372.8	5391.3	5454.1	5576.7	5728.5	5825.1	5822.0	5720.8	5610.4	5533.8	5521.6
17.5°	5270.1	5288.6	5379.0	5550.7	5765.3	5924.7	5967.7	5863.4	5708.5	5605.8	5589.0
20°	5084.6	5101.5	5227.2	5467.9	5777.5	6030.5	6142.4	6050.4	5857.3	5717.8	5691.7
22.5°	4844.0	4870.1	5017.2	5325.3	5748.4	6140.9	6341.7	6278.8	6030.5	5837.3	5802.1
25°	4586.5	4614.0	4785.7	5150.6	5673.3	6220.5	6577.7	6537.9	6226.7	5986.0	5937.0
27.5°	4364.2	4393.4	4580.3	4977.4	5556.8	6251.2	6810.7	6830.6	6464.3	6150.0	6097.9
30°	4189.5	4217.1	4416.3	4837.9	5406.6	6220.5	7014.6	7152.6	6706.5	6292.6	6217.4
32.5°	3997.8	4033.1	4243.1	4667.7	5228.7	6146.9	7192.4	7500.5	6987.0	6445.9	6350.8
35°	3755.6	3787.8	4008.6	4434.7	4995.7	6028.9	7341.2	7886.9	7388.6	6678.9	6573.1
37.5°	3461.3	3492.0	3711.2	4143.5	4764.3	5863.4	7454.5	8322.2	7866.9	7014.6	6873.5
40°	3165.5	3194.6	3400.0	3818.4	4486.8	5651.8	7494.4	8748.3	8415.7	7476.0	7325.8
42.5°	2894.1	2920.2	3108.7	3498.1	4175.6	5382.1	7442.3	9119.3	8907.8	7797.9	7604.8
45°	2644.3	2667.3	2834.3	3197.7	3852.2	5054.0	7285.9	9517.8	9493.3	8027.8	7767.2
47.5°	2359.1	2382.1	2555.3	2906.4	3528.8	4669.3	7020.7	9910.3	10307.3	8549.0	8248.6
50°	2011.2	2031.1	2208.9	2570.7	3193.1	4260.0	6652.9	10218.4	11334.3	9338.5	8961.4
52.5°	1598.8	1620.3	1793.5	2155.3	2794.5	3820.0	6168.4	10419.2	12520.8	10491.3	10026.8
55°	1189.5	1204.9	1355.0	1680.1	2300.9	3318.7	5561.4	10475.9	13866.7	12067.1	11486.0
57.5°	863.0	872.3	968.8	1211.0	1744.4	2691.8	4824.1	10328.7	15468.6	14087.4	13356.3
60°	699.0	702.0	731.2	838.6	1212.6	1983.6	3933.4	9822.9	17206.9	16691.8	15770.5
62.5°	634.6	634.6	642.3	671.4	820.1	1309.1	2855.9	8774.4	19070.9	19983.0	18749.0
65°	590.2	590.2	593.3	607.0	646.9	833.9	1802.7	7066.8	20642.2	23838.3	22277.8
67.5°	550.3	551.9	550.3	554.9	577.9	616.2	1045.4	4880.7	21488.3	27833.1	26148.4
70°	508.9	512.0	504.3	504.3	522.8	524.3	654.6	2676.5	20786.3	31180.9	30737.9
72.5°	459.9	464.4	452.2	449.2	462.9	456.8	492.1	1284.5	17846.2	32180.4	33345.4
75°	417.0	423.1	395.4	387.9	387.9	383.2	400.1	659.2	11582.7	26251.1	28078.3
77.5°	378.6	390.9	346.4	322.0	315.8	302.0	326.5	403.1	5066.3	12324.6	12068.6
80°	312.7	329.5	285.2	256.0	245.3	229.9	257.5	282.1	1506.9	2861.9	2740.8
82.5°	233.0	240.7	202.3	182.4	173.2	162.5	193.1	196.2	490.6	1013.2	1145.1
85°	148.7	151.8	124.1	107.3	102.7	98.1	122.6	107.3	187.1	745.0	1082.2
87.5°	52.1	59.8	47.6	42.9	46.0	38.3	56.7	32.2	52.1	525.8	651.5
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)