

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: P968286

Luminaire Tested: **NAV-SB5B-740-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968286
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-740-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30515.3 lumens
Efficiency: N/A
Efficacy: 167.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

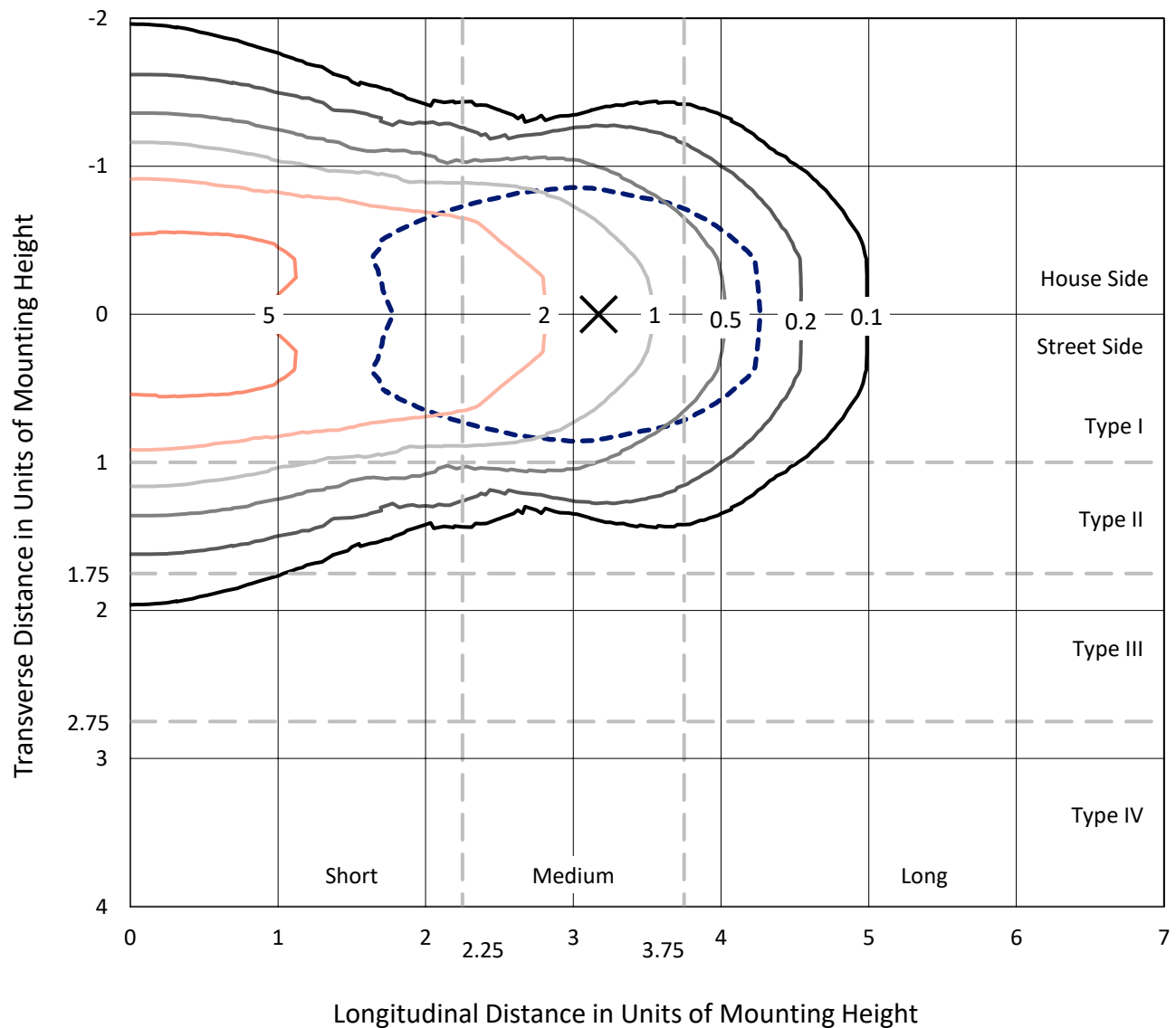
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

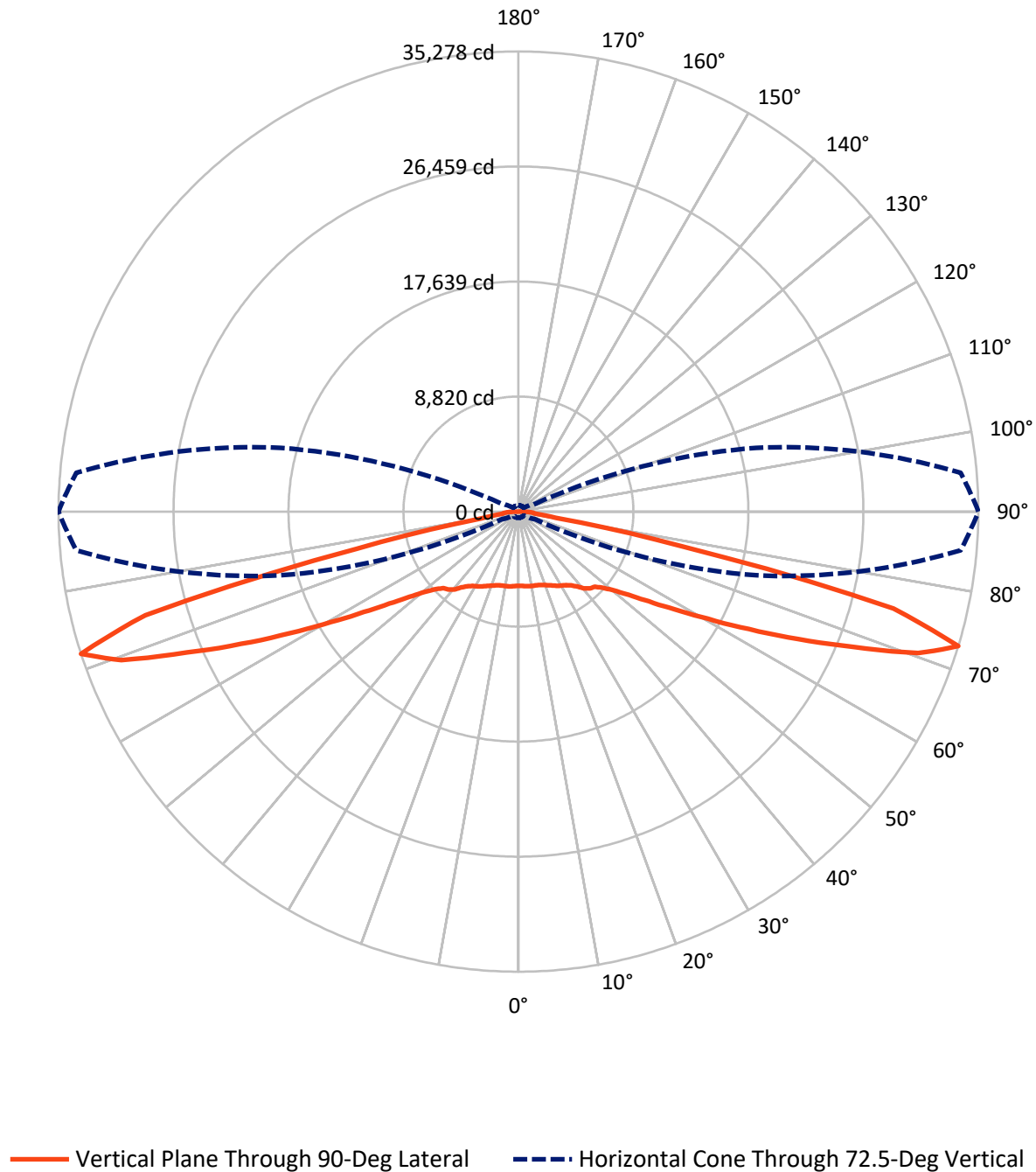
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 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	15257.6	0.0	15257.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15257.6	0.0	15257.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	30515.3	0.0	30515.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	552.9	1.8
10°-20°	1690.5	5.5
20°-30°	2818.8	9.2
30°-40°	3876.7	12.7
40°-50°	4734.5	15.5
50°-60°	5475.9	17.9
60°-70°	6529.2	21.4
70°-80°	4556.9	14.9
80°-90°	279.9	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°	30515.3	100.0
0°-180°	30515.3	100.0

Coefficient of Utilization



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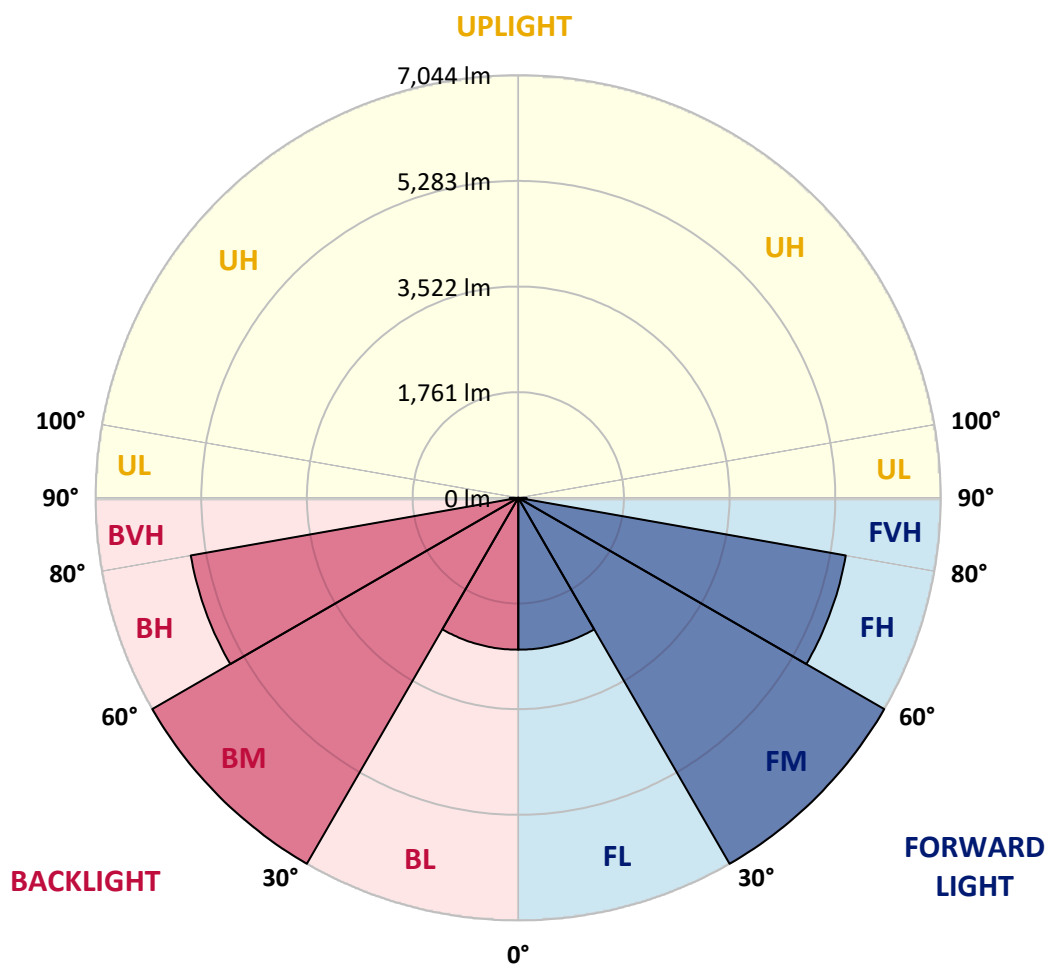
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2531.1	8.3			
FM	(30°-60°)	7043.6	23.1			
FH	(60°-80°)	5543.0	18.2			G3/7500
FVH	(80°-90°)	139.9	0.5			G2/225
BL	(0°-30°)	2531.1	8.3	B4/5000		
BM	(30°-60°)	7043.6	23.1	B4/8500		
BH	(60°-80°)	5543.0	18.2	B5		G5
BVH	(80°-90°)	139.9	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°	5702.1	5702.1	5702.1	5702.1	5702.1	5702.1	5702.1	5702.1	5702.1	5702.1	5702.1
2.5°	5707.0	5713.5	5713.5	5708.6	5719.9	5710.2	5710.2	5705.4	5710.2	5705.4	5705.4
5°	5736.2	5744.3	5747.5	5745.8	5760.5	5752.4	5752.4	5745.8	5747.5	5742.7	5742.7
7.5°	5791.2	5802.6	5809.2	5817.3	5838.3	5828.6	5822.1	5802.6	5794.5	5781.6	5781.6
10°	5809.2	5822.1	5843.2	5885.3	5934.0	5935.7	5916.2	5867.5	5830.2	5801.0	5796.2
12.5°	5754.0	5771.9	5815.6	5901.5	6010.2	6054.1	6023.2	5942.1	5869.2	5817.3	5809.2
15°	5684.2	5703.7	5770.2	5900.0	6060.5	6162.7	6159.4	6052.4	5935.7	5854.6	5841.6
17.5°	5575.6	5595.1	5690.8	5872.4	6099.5	6268.1	6313.5	6203.2	6039.4	5930.8	5912.9
20°	5379.4	5397.2	5530.2	5784.8	6112.4	6380.0	6498.4	6401.1	6196.7	6049.1	6021.6
22.5°	5124.8	5152.4	5308.1	5634.0	6081.6	6496.8	6709.2	6642.7	6380.0	6175.6	6138.3
25°	4852.3	4881.5	5063.1	5449.1	6002.1	6581.1	6958.9	6916.8	6587.6	6333.0	6281.1
27.5°	4617.1	4648.0	4845.8	5265.8	5878.9	6613.5	7205.4	7226.6	6838.9	6506.5	6451.3
30°	4432.3	4461.4	4672.3	5118.2	5719.9	6581.1	7421.2	7567.2	7095.2	6657.3	6577.8
32.5°	4229.6	4266.9	4489.0	4938.2	5531.8	6503.2	7609.3	7935.2	7392.0	6819.5	6719.0
35°	3973.3	4007.3	4240.9	4691.7	5285.3	6378.4	7766.6	8343.9	7816.9	7066.0	6954.1
37.5°	3661.9	3694.4	3926.3	4383.6	5040.4	6203.2	7886.7	8804.5	8322.9	7421.2	7272.0
40°	3348.9	3379.7	3597.0	4039.8	4746.9	5979.4	7928.8	9255.3	8903.5	7909.3	7750.3
42.5°	3061.9	3089.5	3288.9	3700.9	4417.6	5694.0	7873.6	9647.8	9424.1	8249.9	8045.5
45°	2797.5	2821.8	2998.6	3383.0	4075.5	5346.9	7708.2	10069.5	10043.6	8493.2	8217.4
47.5°	2495.9	2520.2	2703.4	3074.9	3733.3	4939.9	7427.7	10484.6	10904.7	9044.5	8726.6
50°	2127.8	2148.8	2337.0	2719.7	3378.1	4506.8	7038.5	10810.7	11991.3	9879.8	9480.8
52.5°	1691.5	1714.2	1897.5	2280.2	2956.5	4041.4	6526.0	11023.1	13246.5	11099.3	10607.9
55°	1258.5	1274.7	1433.7	1777.5	2434.3	3511.1	5883.7	11083.1	14670.4	12766.5	12151.8
57.5°	913.1	922.8	1025.0	1281.1	1845.5	2847.8	5103.7	10927.4	16365.1	14903.9	14130.3
60°	739.5	742.7	773.6	887.1	1282.8	2098.6	4161.4	10392.3	18204.2	17659.3	16684.6
62.5°	671.4	671.4	679.5	710.3	867.7	1385.0	3021.3	9282.9	20176.3	21141.2	19835.7
65°	624.3	624.3	627.6	642.3	684.4	882.2	1907.2	7476.4	21838.5	25219.9	23569.1
67.5°	582.2	583.8	582.2	587.1	611.4	651.9	1106.1	5163.6	22733.8	29446.3	27663.9
70°	538.4	541.7	533.5	533.5	553.0	554.6	692.5	2831.6	21991.1	32988.2	32519.5
72.5°	486.6	491.4	478.4	475.2	489.7	483.3	520.6	1359.0	18880.5	34045.6	35278.1
75°	441.2	447.6	418.4	410.3	410.3	405.5	423.3	697.3	12254.0	27772.6	29705.7
77.5°	400.6	413.6	366.5	340.6	334.0	319.5	345.4	426.5	5359.9	13038.9	12768.1
80°	330.9	348.7	301.7	270.8	259.5	243.2	272.4	298.4	1594.2	3027.8	2899.7
82.5°	246.5	254.6	214.1	193.0	183.3	171.9	204.4	207.6	519.0	1071.9	1211.4
85°	157.3	160.5	131.4	113.6	108.6	103.8	129.8	113.6	197.8	788.2	1144.9
87.5°	55.1	63.2	50.2	45.4	48.7	40.6	60.0	34.0	55.1	556.3	689.2
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)