

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: P884615

Luminaire Tested: **NAV-SB5C-735-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P884615
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB5C-735-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37594 lumens
Efficiency: N/A
Efficacy: 150.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

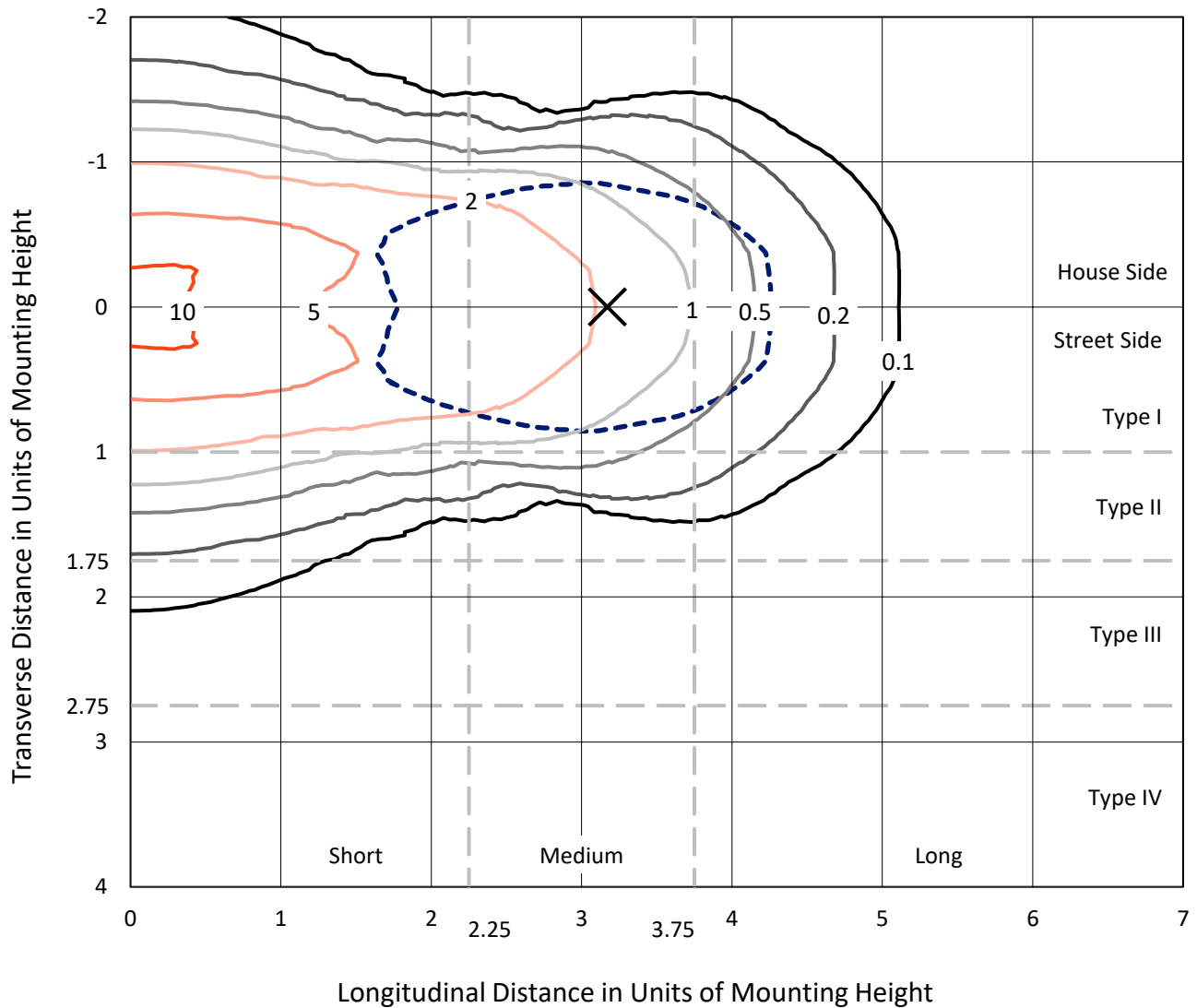
Input Watts (W): 249.5
Input Voltage (V): 120.0
Input Current (Ain): 2.116
Voltage Rise (V): NR
Power Factor: 0.996
Total Harmonic Distortion (THDi): 7.885
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

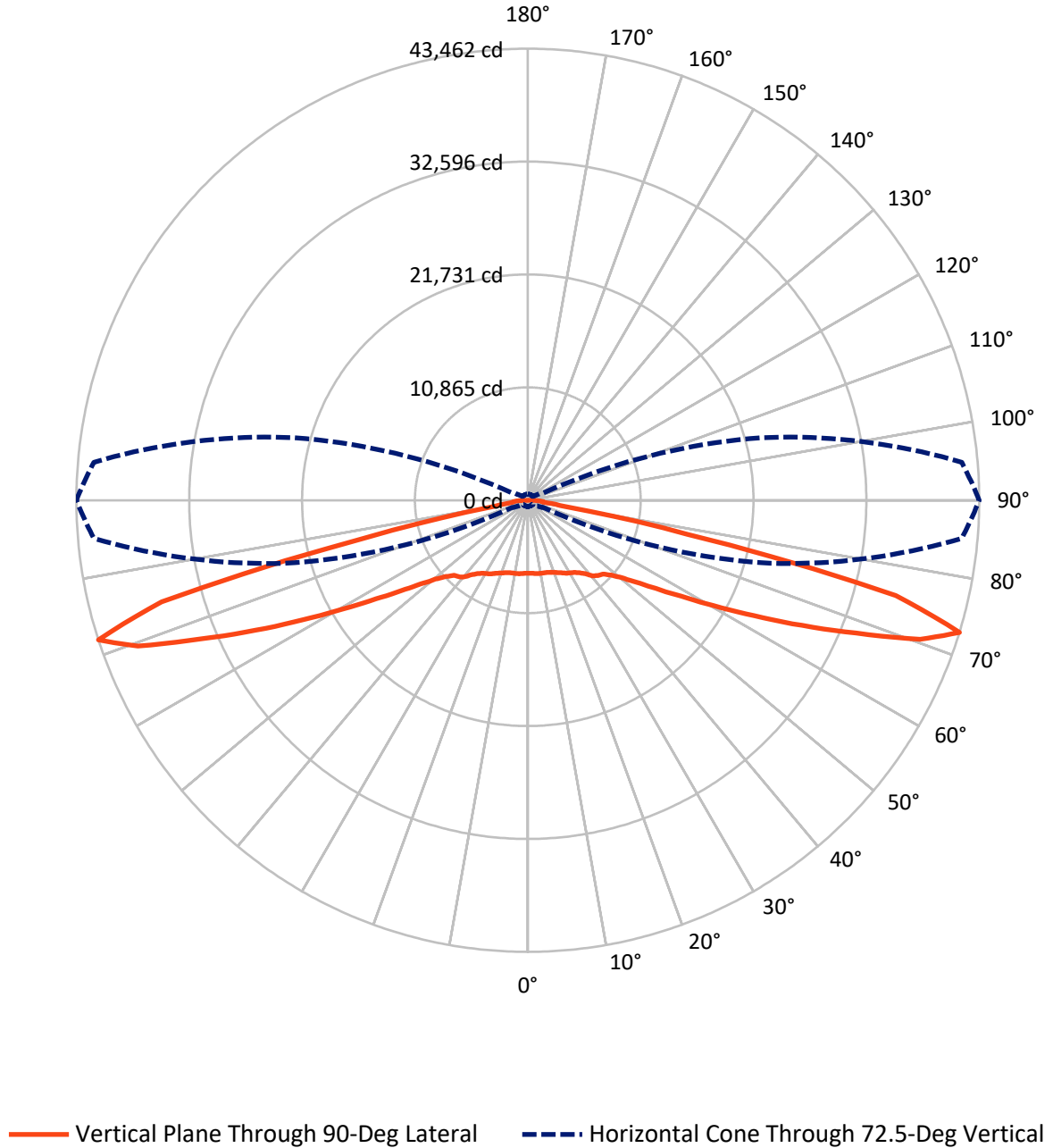
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 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	18797.0	0.0	18797.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18797.0	0.0	18797.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	37594.0	0.0	37594.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	681.1	1.8
10°-20°	2082.7	5.5
20°-30°	3472.7	9.2
30°-40°	4776.0	12.7
40°-50°	5832.8	15.5
50°-60°	6746.2	17.9
60°-70°	8043.8	21.4
70°-80°	5614.0	14.9
80°-90°	344.8	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°	37594.0	100.0
0°-180°	37594.0	100.0



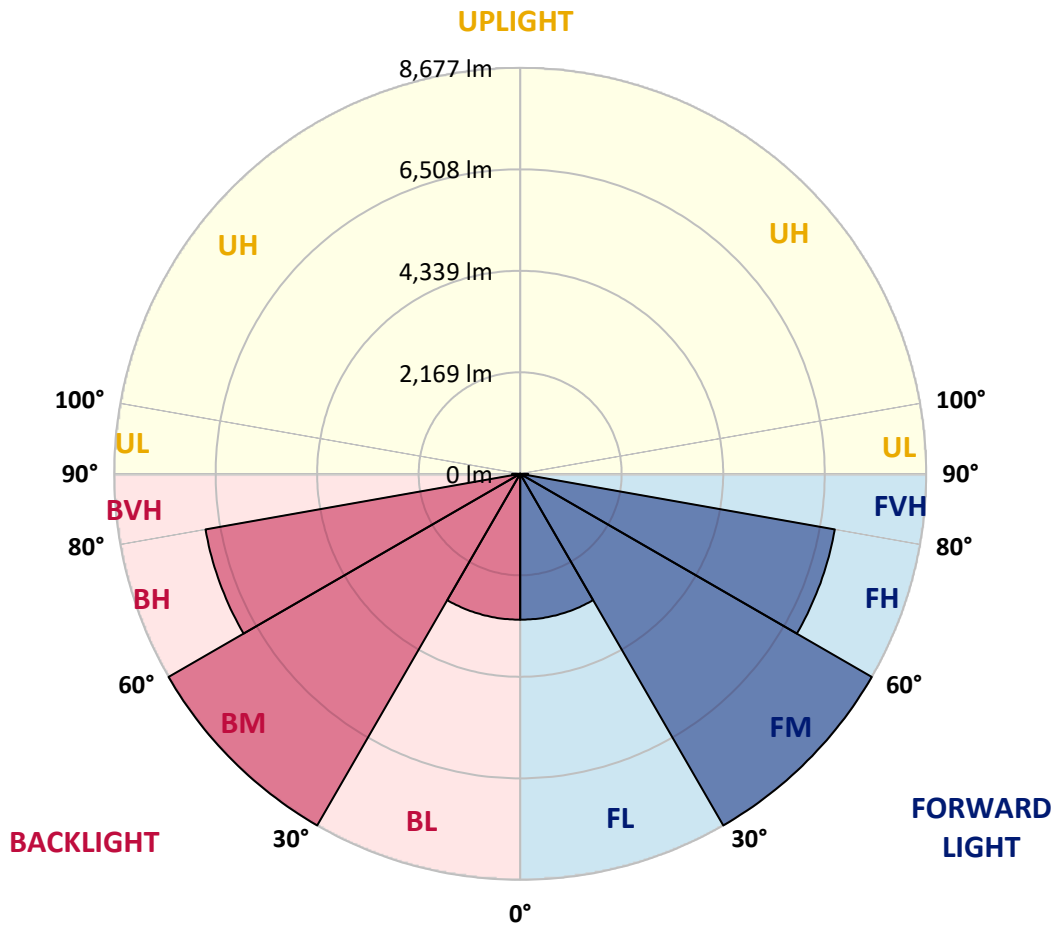
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3118.2	8.3			
FM (30°-60°)	8677.5	23.1			
FH (60°-80°)	6828.9	18.2			G3/7500
FVH (80°-90°)	172.4	0.5			G2/225
BL (0°-30°)	3118.2	8.3	B4/5000		
BM (30°-60°)	8677.5	23.1	B5		
BH (60°-80°)	6828.9	18.2	B5		G5
BVH (80°-90°)	172.4	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°	7024.8	7024.8	7024.8	7024.8	7024.8	7024.8	7024.8	7024.8	7024.8	7024.8	7024.8
2.5°	7030.8	7038.8	7038.8	7032.8	7046.8	7034.8	7034.8	7028.8	7034.8	7028.8	7028.8
5°	7066.8	7076.8	7080.8	7078.8	7096.8	7086.8	7086.8	7078.8	7080.8	7074.8	7074.8
7.5°	7134.7	7148.7	7156.7	7166.7	7192.7	7180.7	7172.7	7148.7	7138.7	7122.7	7122.7
10°	7156.7	7172.7	7198.7	7250.6	7310.5	7312.5	7288.6	7228.6	7182.7	7146.7	7140.7
12.5°	7088.8	7110.7	7164.7	7270.6	7404.4	7458.4	7420.4	7320.5	7230.6	7166.7	7156.7
15°	7002.9	7026.8	7108.8	7268.6	7466.4	7592.3	7588.3	7456.4	7312.5	7212.6	7196.7
17.5°	6869.0	6893.0	7010.9	7234.6	7514.3	7722.1	7778.1	7642.2	7440.4	7306.5	7284.6
20°	6627.2	6649.2	6813.1	7126.7	7530.3	7860.0	8005.8	7886.0	7634.2	7452.4	7418.4
22.5°	6313.6	6347.5	6539.3	6940.9	7492.4	8003.8	8265.6	8183.7	7860.0	7608.2	7562.3
25°	5977.9	6013.9	6237.6	6713.2	7394.5	8107.7	8573.3	8521.3	8115.7	7802.0	7738.1
27.5°	5688.2	5726.2	5969.9	6487.4	7242.6	8147.7	8876.9	8902.9	8425.4	8015.8	7947.9
30°	5460.4	5496.4	5756.1	6305.6	7046.8	8107.7	9142.7	9322.5	8741.1	8201.6	8103.7
32.5°	5210.7	5256.6	5530.4	6083.8	6815.0	8011.8	9374.4	9776.0	9106.7	8401.4	8277.6
35°	4895.0	4937.0	5224.7	5780.1	6511.4	7858.0	9568.2	10279.5	9630.2	8705.1	8567.3
37.5°	4511.4	4551.4	4837.1	5400.5	6209.7	7642.2	9716.1	10846.9	10253.5	9142.7	8958.9
40°	4125.8	4163.8	4431.5	4976.9	5848.0	7366.5	9768.0	11402.4	10968.8	9744.1	9548.3
42.5°	3772.2	3806.1	4051.9	4559.4	5442.4	7014.8	9700.1	11885.9	11610.2	10163.6	9911.9
45°	3446.5	3476.5	3694.2	4167.7	5020.9	6587.3	9496.3	12405.3	12373.4	10463.3	10123.7
47.5°	3074.9	3104.8	3330.6	3788.1	4599.3	6085.8	9150.7	12916.8	13434.3	11142.6	10751.0
50°	2621.3	2647.3	2879.1	3350.6	4161.8	5552.3	8671.2	13318.4	14772.9	12171.6	11680.1
52.5°	2083.9	2111.8	2337.6	2809.1	3642.3	4978.9	8039.8	13580.2	16319.4	13674.1	13068.7
55°	1550.4	1570.4	1766.2	2189.8	2998.9	4325.6	7248.6	13654.1	18073.6	15728.0	14970.7
57.5°	1124.9	1136.8	1262.7	1578.4	2273.7	3508.4	6287.6	13462.3	20161.4	18361.3	17408.2
60°	911.1	915.1	953.0	1092.9	1580.4	2585.4	5126.8	12802.9	22427.1	21755.8	20555.0
62.5°	827.2	827.2	837.1	875.1	1068.9	1706.3	3722.2	11436.3	24856.7	26045.4	24437.1
65°	769.2	769.2	773.2	791.2	843.1	1086.9	2349.6	9210.6	26904.6	31070.3	29036.4
67.5°	717.3	719.3	717.3	723.3	753.2	803.2	1362.6	6361.5	28007.4	36277.0	34081.2
70°	663.3	667.3	657.3	657.3	681.3	683.3	853.1	3488.4	27092.4	40640.6	40063.1
72.5°	599.4	605.4	589.4	585.4	603.4	595.4	641.3	1674.3	23260.3	41943.2	43461.7
75°	543.4	551.4	515.5	505.5	505.5	499.5	521.5	859.1	15096.6	34215.1	36596.7
77.5°	493.5	509.5	451.5	419.6	411.6	393.6	425.6	525.5	6603.3	16063.6	15730.0
80°	407.6	429.6	371.6	333.7	319.7	299.7	335.7	367.6	1964.0	3730.2	3572.4
82.5°	303.7	313.7	263.7	237.8	225.8	211.8	251.7	255.7	639.3	1320.7	1492.5
85°	193.8	197.8	161.8	139.9	133.9	127.9	159.8	139.9	243.8	971.0	1410.6
87.5°	67.9	77.9	61.9	55.9	59.9	49.9	73.9	42.0	67.9	685.3	849.1
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)