

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: P884675

Luminaire Tested: **NAV-SB5C-835-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P884675
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-835-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 80 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: 31720 lumens
Efficiency: N/A
Efficacy: 127.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

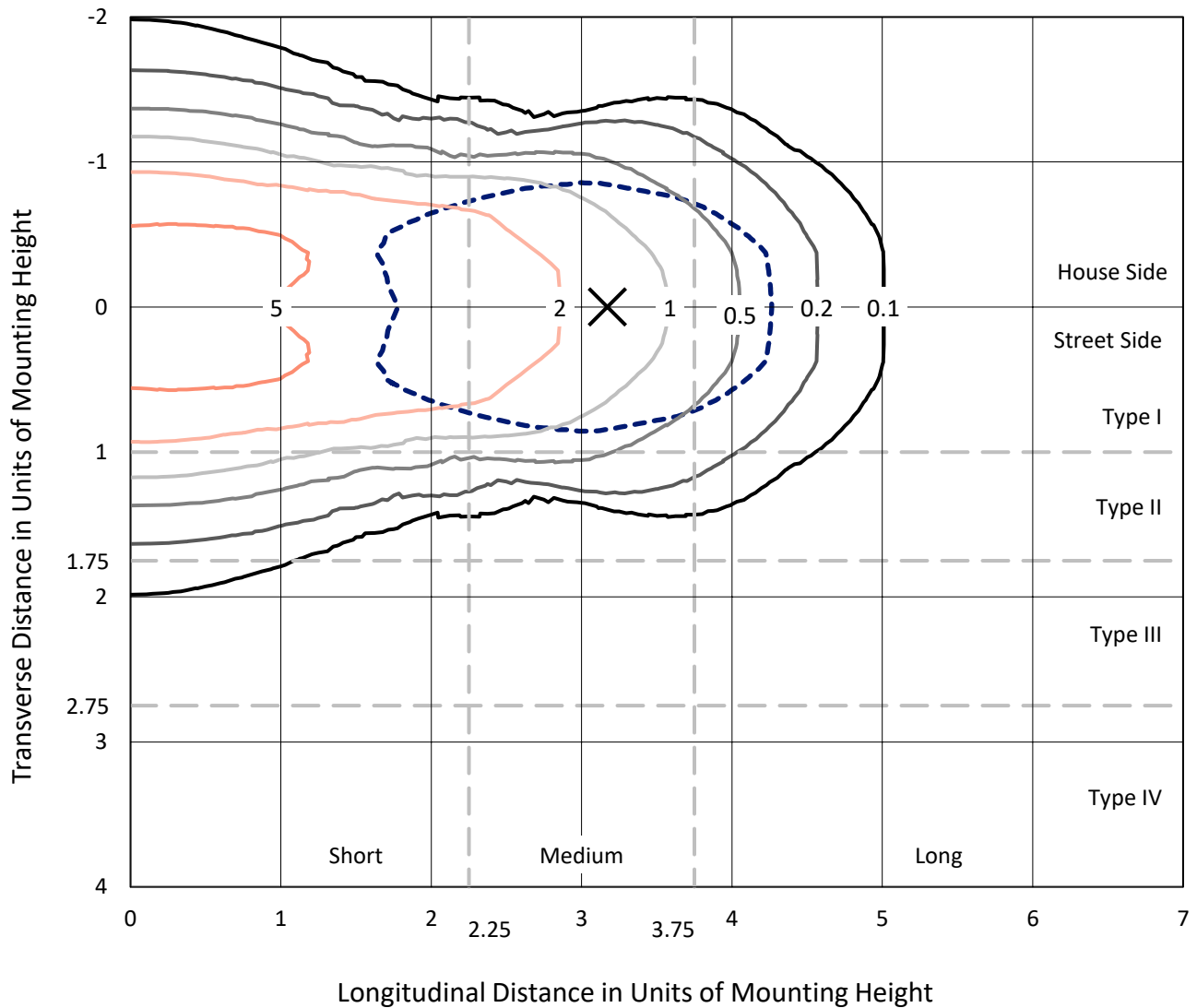
Input Watts (W): 249.5
Input Voltage (V): 120.0
Input Current (Ain): 2.116
Voltage Rise (V): NR
Power Factor: 0.996
Total Harmonic Distortion (THDi): 7.885
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

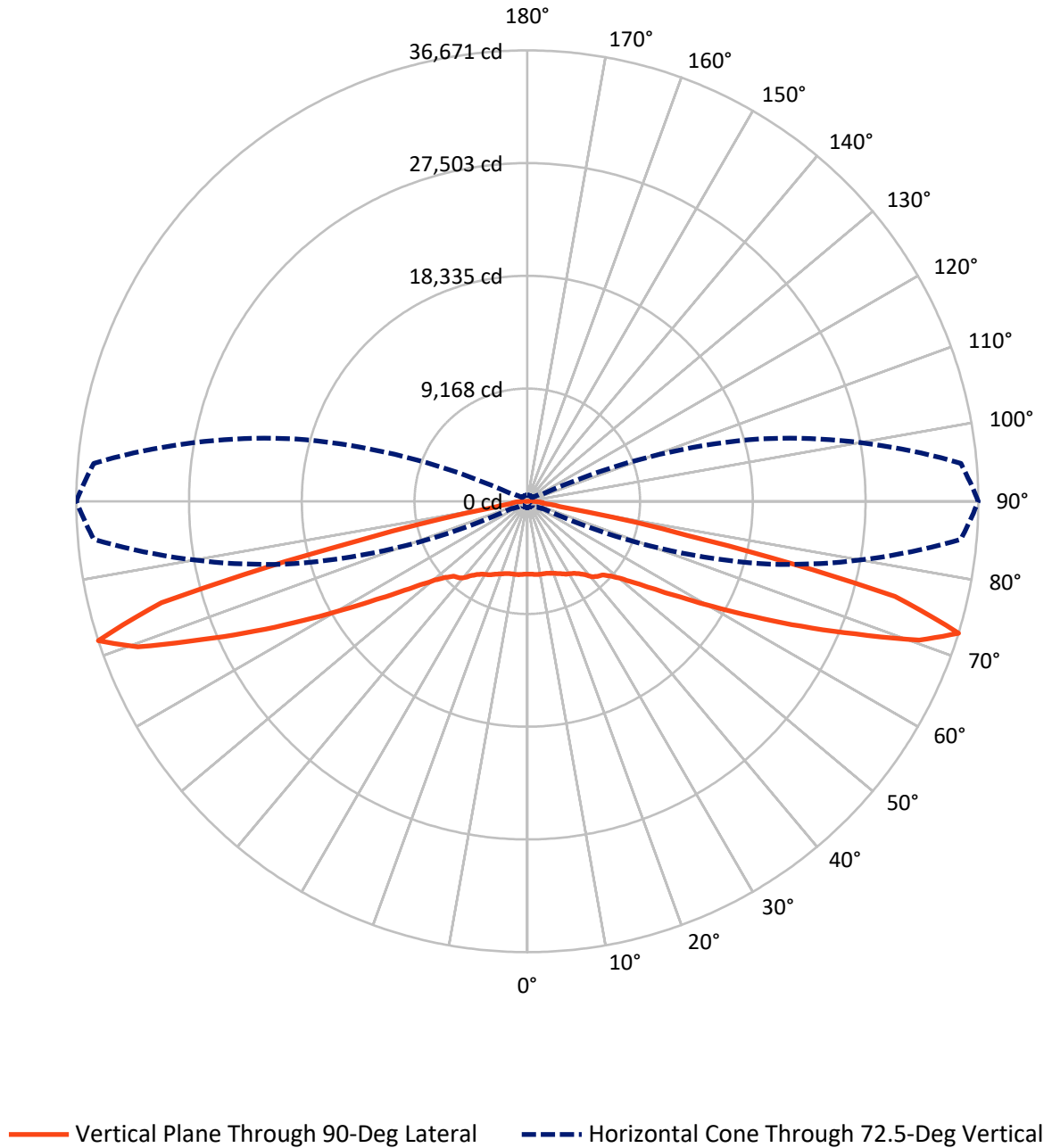
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 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	15860.0	0.0	15860.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15860.0	0.0	15860.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	31720.0	0.0	31720.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	574.7	1.8
10°-20°	1757.2	5.5
20°-30°	2930.1	9.2
30°-40°	4029.7	12.7
40°-50°	4921.4	15.5
50°-60°	5692.1	17.9
60°-70°	6786.9	21.4
70°-80°	4736.8	14.9
80°-90°	290.9	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°	31720.0	100.0
0°-180°	31720.0	100.0

Coefficient of Utilization



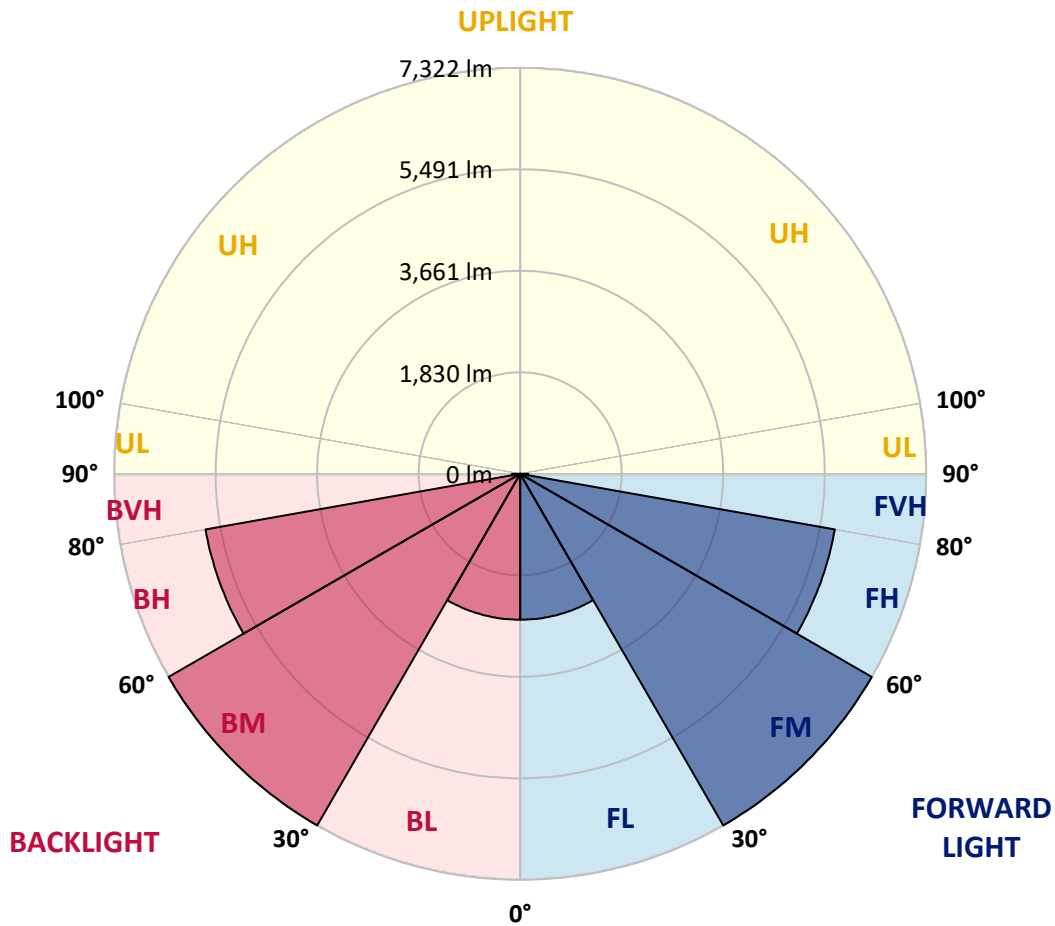
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2631.0	8.3			
FM (30°-60°)	7321.6	23.1			
FH (60°-80°)	5761.9	18.2			G3/7500
FVH (80°-90°)	145.5	0.5			G2/225
BL (0°-30°)	2631.0	8.3	B4/5000		
BM (30°-60°)	7321.6	23.1	B4/8500		
BH (60°-80°)	5761.9	18.2	B5		G5
BVH (80°-90°)	145.5	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°	5927.2	5927.2	5927.2	5927.2	5927.2	5927.2	5927.2	5927.2	5927.2	5927.2	5927.2
2.5°	5932.3	5939.0	5939.0	5934.0	5945.8	5935.6	5935.6	5930.6	5935.6	5930.6	5930.6
5°	5962.6	5971.0	5974.4	5972.7	5987.9	5979.5	5979.5	5972.7	5974.4	5969.4	5969.4
7.5°	6019.9	6031.7	6038.5	6046.9	6068.8	6058.7	6052.0	6031.7	6023.3	6009.8	6009.8
10°	6038.5	6052.0	6073.9	6117.7	6168.3	6170.0	6149.7	6099.2	6060.4	6030.0	6025.0
12.5°	5981.2	5999.7	6045.2	6134.6	6247.5	6293.0	6261.0	6176.7	6100.9	6046.9	6038.5
15°	5908.7	5928.9	5998.0	6132.9	6299.8	6406.0	6402.6	6291.3	6170.0	6085.7	6072.2
17.5°	5795.7	5816.0	5915.4	6104.2	6340.2	6515.6	6562.8	6448.1	6277.9	6164.9	6146.4
20°	5591.7	5610.3	5748.5	6013.2	6353.7	6631.9	6754.9	6653.8	6441.4	6288.0	6259.3
22.5°	5327.1	5355.7	5517.6	5856.4	6321.7	6753.3	6974.1	6905.0	6631.9	6419.5	6380.7
25°	5043.9	5074.2	5263.0	5664.2	6239.1	6840.9	7233.7	7189.9	6847.7	6583.0	6529.0
27.5°	4799.4	4831.5	5037.1	5473.7	6111.0	6874.6	7489.9	7511.9	7109.0	6763.4	6706.0
30°	4607.2	4637.6	4856.7	5320.3	5945.8	6840.9	7714.1	7865.9	7375.3	6920.1	6837.5
32.5°	4396.5	4435.3	4666.3	5133.2	5750.2	6760.0	7909.7	8248.5	7683.8	7088.7	6984.2
35°	4130.2	4165.6	4408.3	4877.0	5494.0	6630.2	8073.2	8673.4	8125.5	7345.0	7228.6
37.5°	3806.5	3840.2	4081.3	4556.7	5239.4	6448.1	8198.0	9152.1	8651.4	7714.1	7559.1
40°	3481.1	3513.2	3739.1	4199.3	4934.3	6215.5	8241.8	9620.8	9255.0	8221.6	8056.4
42.5°	3182.8	3211.4	3418.8	3847.0	4592.1	5918.8	8184.5	10028.7	9796.1	8575.6	8363.2
45°	2908.0	2933.3	3117.0	3516.5	4236.4	5558.0	8012.5	10467.0	10440.1	8828.5	8541.9
47.5°	2594.4	2619.7	2810.2	3196.2	3880.7	5134.9	7720.9	10898.6	11335.2	9401.6	9071.2
50°	2211.7	2233.7	2429.2	2827.1	3511.5	4684.8	7316.3	11237.4	12464.7	10269.8	9855.1
52.5°	1758.3	1781.9	1972.4	2370.2	3073.2	4201.0	6783.6	11458.3	13769.5	11537.5	11026.7
55°	1308.2	1325.0	1490.2	1847.6	2530.4	3649.7	6116.0	11520.6	15249.6	13270.5	12631.6
57.5°	949.1	959.2	1065.4	1331.8	1918.4	2960.2	5305.2	11358.8	17011.2	15492.4	14688.2
60°	768.7	772.1	804.1	922.1	1333.5	2181.4	4325.7	10802.5	18922.9	18356.5	17343.3
62.5°	697.9	697.9	706.3	738.4	901.9	1439.7	3140.6	9649.4	20972.8	21975.9	20618.8
65°	649.0	649.0	652.4	667.6	711.4	917.1	1982.5	7771.5	22700.8	26215.6	24499.5
67.5°	605.2	606.9	605.2	610.3	635.5	677.7	1149.7	5367.5	23631.3	30608.8	28756.1
70°	559.7	563.1	554.6	554.6	574.9	576.5	719.8	2943.4	22859.2	34290.5	33803.3
72.5°	505.7	510.8	497.3	493.9	509.1	502.4	541.1	1412.7	19625.9	35389.7	36670.9
75°	458.5	465.3	434.9	426.5	426.5	421.4	440.0	724.9	12737.8	28869.1	30878.5
77.5°	416.4	429.9	381.0	354.0	347.3	332.1	359.1	443.4	5571.5	13553.7	13272.2
80°	343.9	362.4	313.6	281.5	269.7	252.9	283.2	310.2	1657.1	3147.4	3014.2
82.5°	256.2	264.7	222.5	200.6	190.5	178.7	212.4	215.8	539.5	1114.3	1259.3
85°	163.5	166.9	136.5	118.0	112.9	107.9	134.9	118.0	205.7	819.3	1190.2
87.5°	57.3	65.7	52.3	47.2	50.6	42.1	62.4	35.4	57.3	578.2	716.5
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)