

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: P883995

Luminaire Tested: **NAV-SB4C-835-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883995
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-SB4C-835-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 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: 25334 lumens
Efficiency: N/A
Efficacy: 126.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

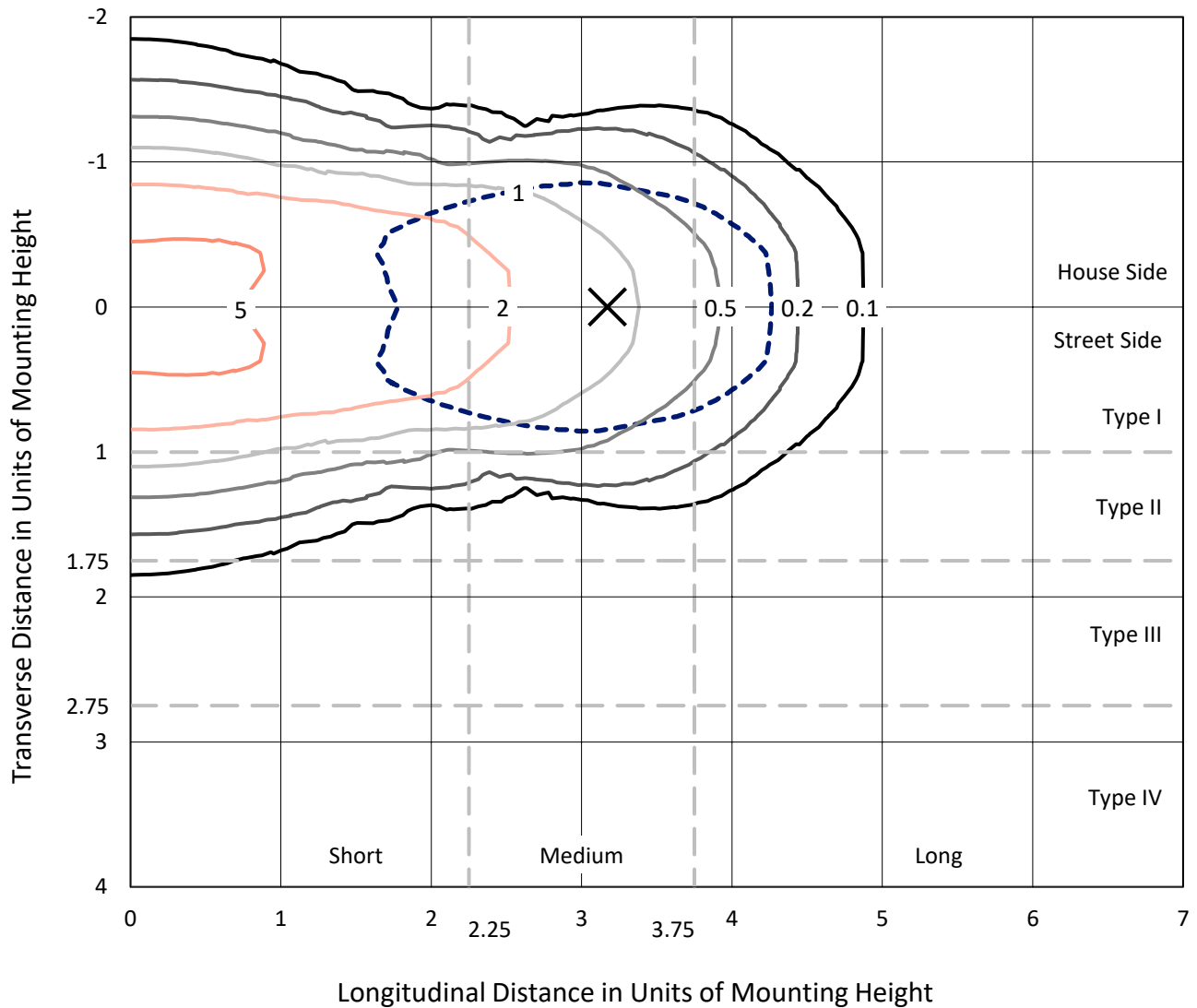
Input Watts (W): 200.7
Input Voltage (V): 120.0
Input Current (Ain): 1.714
Voltage Rise (V): NR
Power Factor: 0.994
Total Harmonic Distortion (THDi): 9.472
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

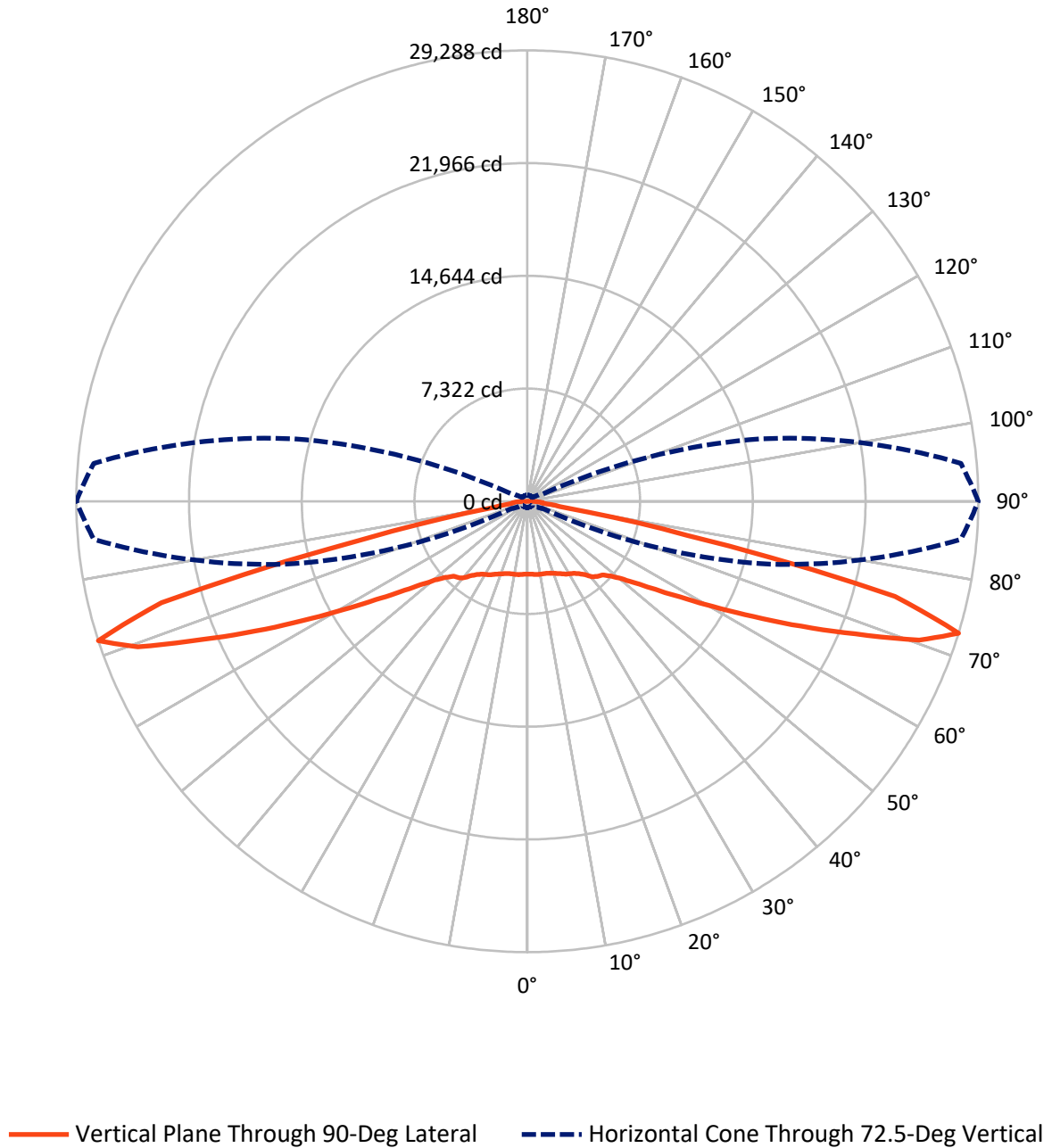
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 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	12667.0	0.0	12667.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12667.0	0.0	12667.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	25334.0	0.0	25334.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	459.0	1.8
10°-20°	1403.5	5.5
20°-30°	2340.2	9.2
30°-40°	3218.5	12.7
40°-50°	3930.6	15.5
50°-60°	4546.2	17.9
60°-70°	5420.6	21.4
70°-80°	3783.2	14.9
80°-90°	232.4	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°	25334.0	100.0
0°-180°	25334.0	100.0

Coefficient of Utilization



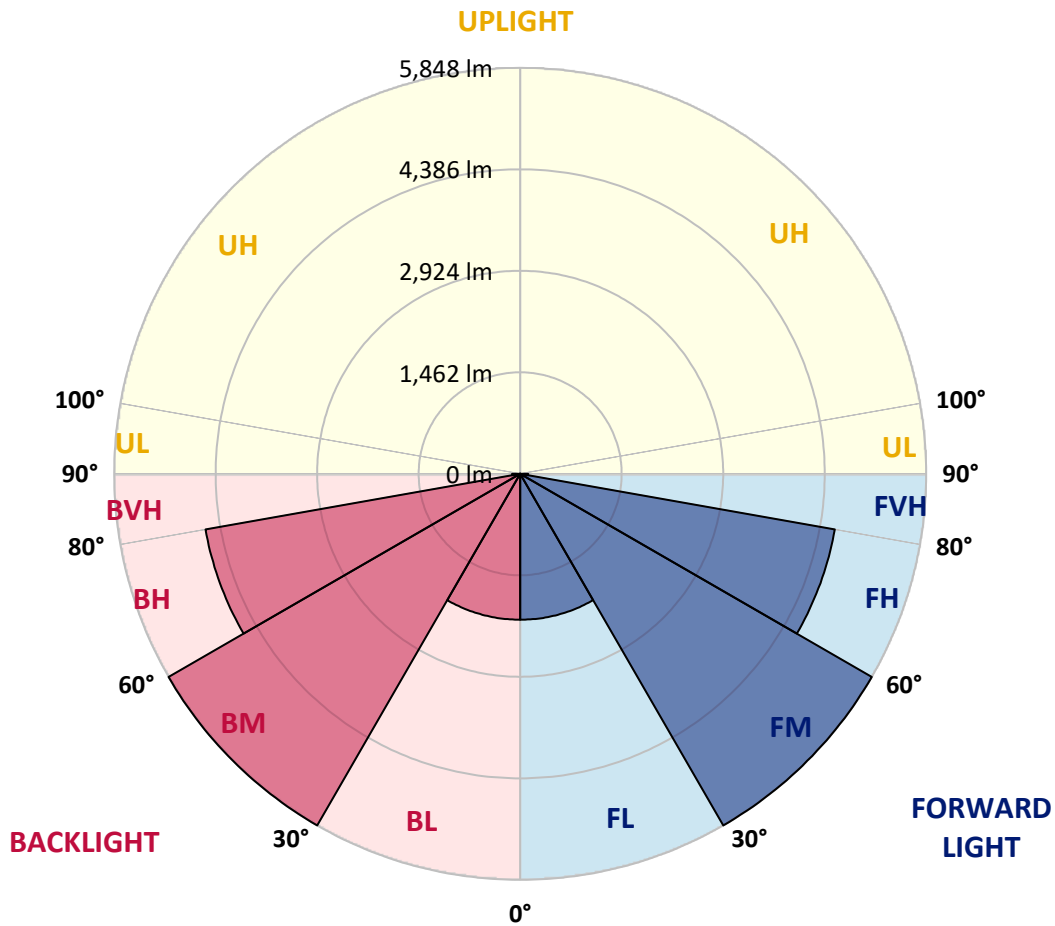
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2101.3	8.3			
FM (30°-60°)	5847.6	23.1			
FH (60°-80°)	4601.9	18.2			G2/5000
FVH (80°-90°)	116.2	0.5			G2/225
BL (0°-30°)	2101.3	8.3	B3/2500		
BM (30°-60°)	5847.6	23.1	B4/8500		
BH (60°-80°)	4601.9	18.2	B4/5000		G4/5000
BVH (80°-90°)	116.2	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4733.9	4733.9	4733.9	4733.9	4733.9	4733.9	4733.9	4733.9	4733.9	4733.9	4733.9
2.5°	4738.0	4743.4	4743.4	4739.3	4748.7	4740.7	4740.7	4736.6	4740.7	4736.6	4736.6
5°	4762.2	4768.9	4771.6	4770.3	4782.4	4775.7	4775.7	4770.3	4771.6	4767.6	4767.6
7.5°	4808.0	4817.4	4822.8	4829.5	4847.0	4838.9	4833.6	4817.4	4810.7	4799.9	4799.9
10°	4822.8	4833.6	4851.1	4886.1	4926.5	4927.8	4911.6	4871.3	4840.3	4816.1	4812.0
12.5°	4777.0	4791.8	4828.2	4899.5	4989.7	5026.1	5000.5	4933.2	4872.6	4829.5	4822.8
15°	4719.1	4735.3	4790.5	4898.2	5031.5	5116.3	5113.6	5024.7	4927.8	4860.5	4849.7
17.5°	4628.9	4645.1	4724.5	4875.3	5063.8	5203.8	5241.5	5150.0	5014.0	4923.8	4909.0
20°	4466.0	4480.8	4591.2	4802.6	5074.6	5296.7	5395.0	5314.2	5144.6	5022.1	4999.2
22.5°	4254.6	4277.5	4406.8	4677.4	5049.0	5393.7	5570.0	5514.8	5296.7	5127.1	5096.1
25°	4028.4	4052.6	4203.4	4523.9	4983.0	5463.7	5777.4	5742.4	5469.1	5257.7	5214.6
27.5°	3833.2	3858.8	4023.0	4371.7	4880.7	5490.6	5982.0	5999.5	5677.7	5401.7	5356.0
30°	3679.7	3703.9	3879.0	4249.2	4748.7	5463.7	6161.1	6282.3	5890.5	5527.0	5461.0
32.5°	3511.4	3542.4	3726.8	4099.8	4592.6	5399.0	6317.3	6587.9	6136.9	5661.6	5578.1
35°	3298.7	3326.9	3520.8	3895.1	4387.9	5295.4	6447.9	6927.2	6489.6	5866.2	5773.3
37.5°	3040.2	3067.1	3259.6	3639.3	4184.6	5150.0	6547.5	7309.6	6909.7	6161.1	6037.2
40°	2780.3	2805.9	2986.3	3353.9	3940.9	4964.2	6582.5	7683.9	7391.7	6566.4	6434.4
42.5°	2542.0	2564.9	2730.5	3072.5	3667.6	4727.2	6536.7	8009.7	7823.9	6849.1	6679.5
45°	2322.5	2342.7	2489.5	2808.6	3383.5	4439.1	6399.4	8359.8	8338.2	7051.1	6822.2
47.5°	2072.1	2092.3	2244.4	2552.8	3099.4	4101.1	6166.5	8704.4	9053.2	7508.8	7245.0
50°	1766.5	1784.0	1940.2	2257.9	2804.5	3741.6	5843.4	8975.1	9955.2	8202.2	7871.0
52.5°	1404.3	1423.1	1575.3	1893.0	2454.5	3355.2	5417.9	9151.4	10997.4	9214.7	8806.8
55°	1044.8	1058.3	1190.2	1475.6	2020.9	2914.9	4884.7	9201.3	12179.5	10598.8	10088.5
57.5°	758.0	766.1	850.9	1063.7	1532.2	2364.3	4237.1	9072.0	13586.5	12373.4	11731.1
60°	614.0	616.6	642.2	736.5	1065.0	1742.2	3454.8	8627.7	15113.3	14660.9	13851.7
62.5°	557.4	557.4	564.1	589.7	720.3	1149.8	2508.3	7706.8	16750.5	17551.6	16467.8
65°	518.4	518.4	521.1	533.2	568.2	732.4	1583.4	6206.9	18130.6	20937.8	19567.2
67.5°	483.4	484.7	483.4	487.4	507.6	541.3	918.2	4286.9	18873.8	24446.5	22966.8
70°	447.0	449.7	443.0	443.0	459.1	460.5	574.9	2350.8	18257.1	27387.0	26997.9
72.5°	403.9	408.0	397.2	394.5	406.6	401.2	432.2	1128.3	15674.7	28264.9	29288.1
75°	366.2	371.6	347.4	340.6	340.6	336.6	351.4	578.9	10173.4	23057.0	24661.9
77.5°	332.6	343.3	304.3	282.7	277.4	265.2	286.8	354.1	4449.8	10825.0	10600.2
80°	274.7	289.5	250.4	224.8	215.4	202.0	226.2	247.7	1323.5	2513.7	2407.4
82.5°	204.7	211.4	177.7	160.2	152.1	142.7	169.6	172.3	430.8	890.0	1005.8
85°	130.6	133.3	109.1	94.2	90.2	86.2	107.7	94.2	164.3	654.3	950.6
87.5°	45.8	52.5	41.7	37.7	40.4	33.7	49.8	28.3	45.8	461.8	572.2
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)