

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: P883935

Luminaire Tested: **NAV-SB4C-735-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883935
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-735-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 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: 30025 lumens
Efficiency: N/A
Efficacy: 149.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

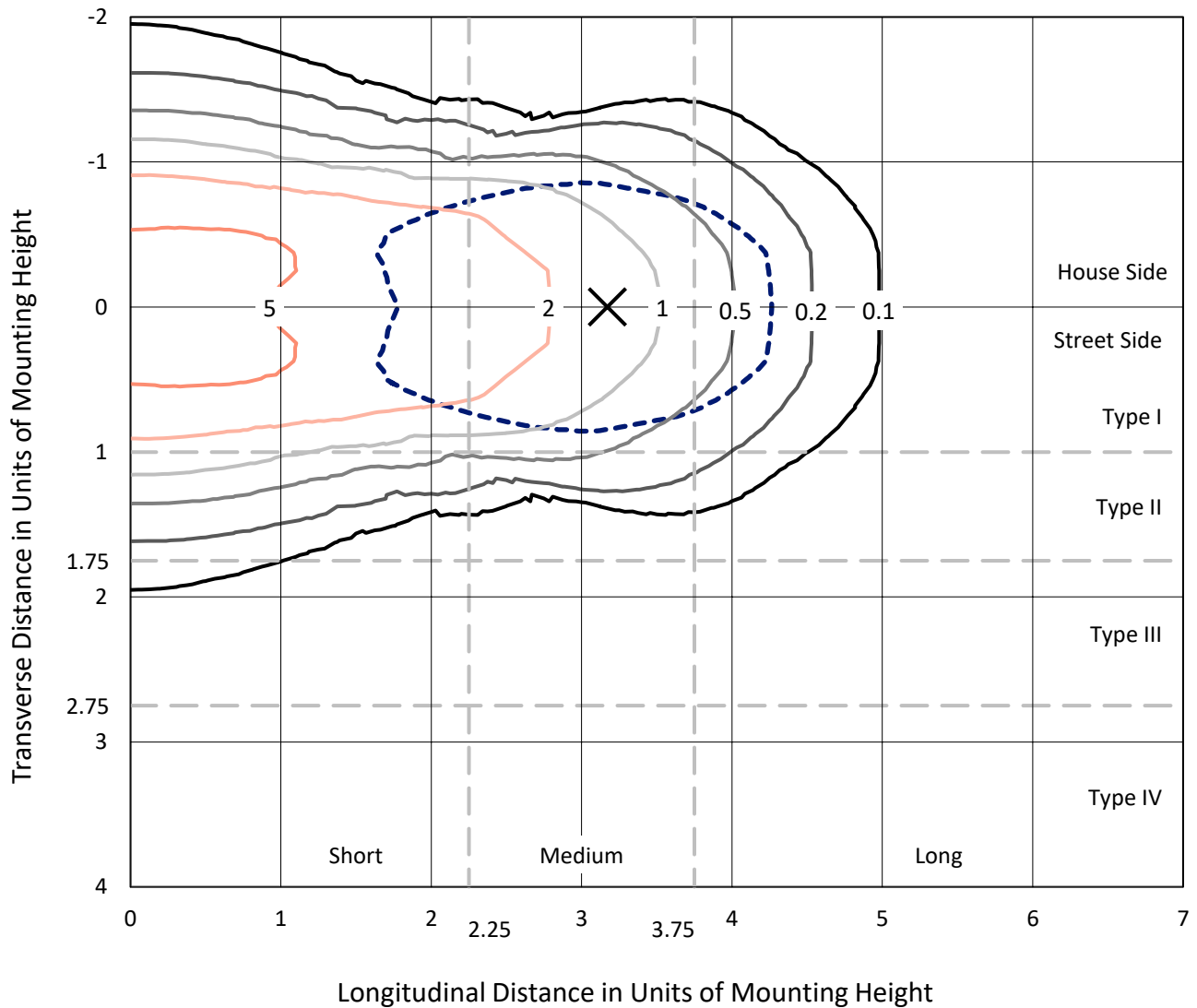
Input Watts (W): 200.7
Input Voltage (V): 120.0
Input Current (Ain): 1.714
Voltage Rise (V): NR
Power Factor: 0.994
Total Harmonic Distortion (THDi): 9.472
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

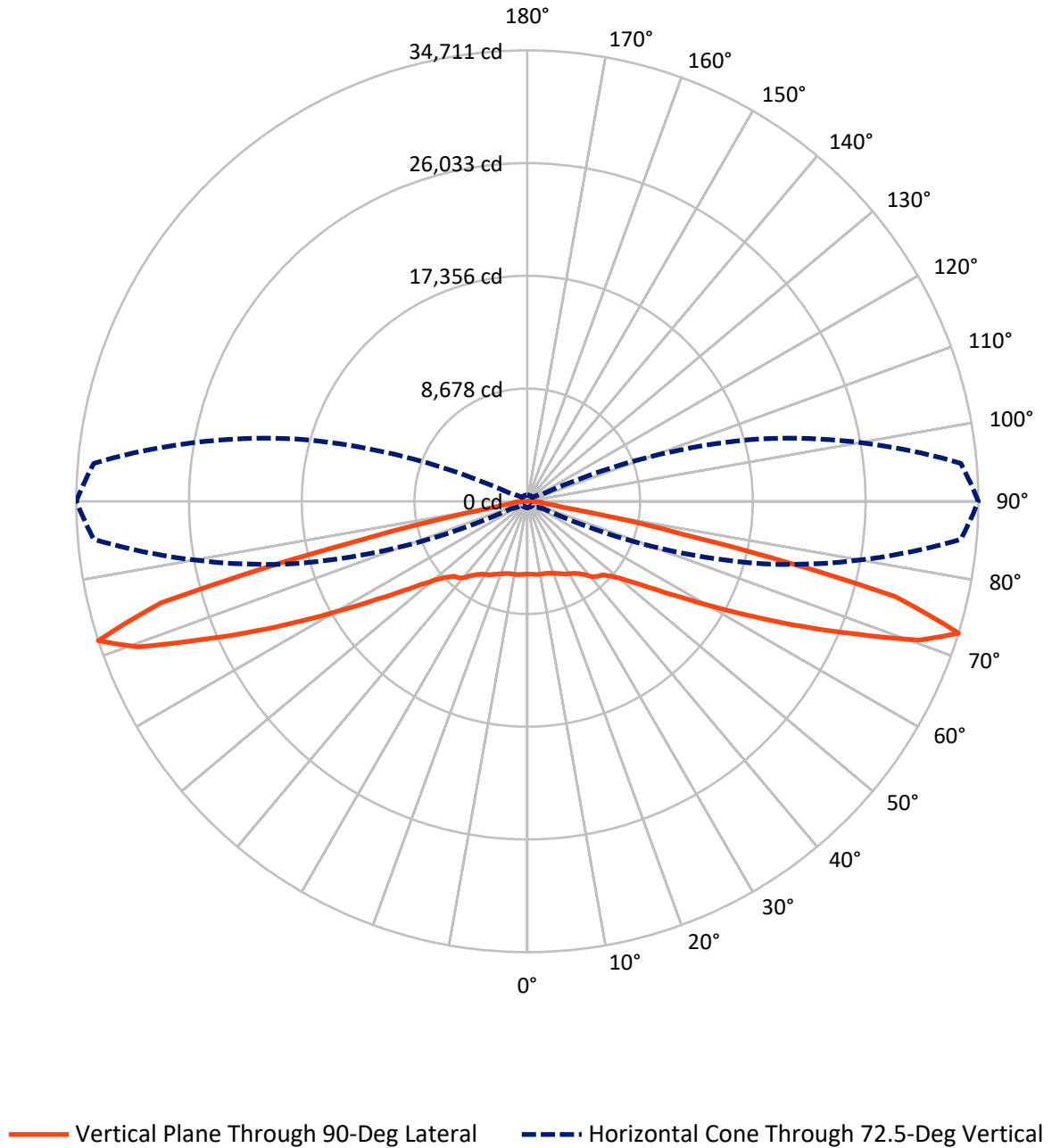
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 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	15012.5	0.0	15012.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15012.5	0.0	15012.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	30025.0	0.0	30025.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	544.0	1.8
10°-20°	1663.3	5.5
20°-30°	2773.5	9.2
30°-40°	3814.4	12.7
40°-50°	4658.4	15.5
50°-60°	5388.0	17.9
60°-70°	6424.3	21.4
70°-80°	4483.7	14.9
80°-90°	275.4	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°	30025.0	100.0
0°-180°	30025.0	100.0

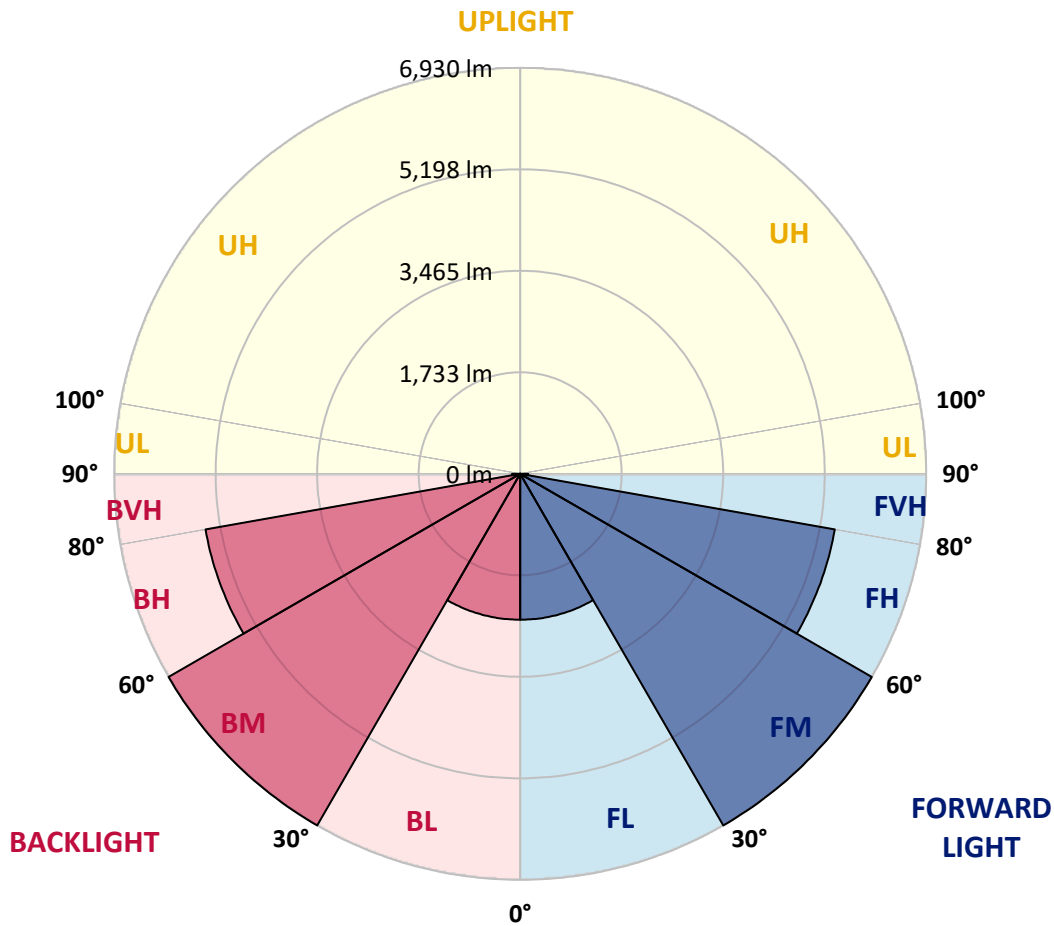


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2490.4	8.3			
FM (30°-60°)	6930.4	23.1			
FH (60°-80°)	5454.0	18.2			G3/7500
FVH (80°-90°)	137.7	0.5			G2/225
BL (0°-30°)	2490.4	8.3	B3/2500		
BM (30°-60°)	6930.4	23.1	B4/8500		
BH (60°-80°)	5454.0	18.2	B5		G5
BVH (80°-90°)	137.7	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°	5610.5	5610.5	5610.5	5610.5	5610.5	5610.5	5610.5	5610.5	5610.5	5610.5	5610.5
2.5°	5615.3	5621.7	5621.7	5616.9	5628.0	5618.5	5618.5	5613.7	5618.5	5613.7	5613.7
5°	5644.0	5652.0	5655.2	5653.6	5667.9	5660.0	5660.0	5653.6	5655.2	5650.4	5650.4
7.5°	5698.3	5709.4	5715.8	5723.8	5744.5	5735.0	5728.6	5709.4	5701.4	5688.7	5688.7
10°	5715.8	5728.6	5749.3	5790.8	5838.7	5840.3	5821.1	5773.2	5736.5	5707.8	5703.0
12.5°	5661.6	5679.1	5722.2	5806.8	5913.7	5956.8	5926.4	5846.7	5774.8	5723.8	5715.8
15°	5592.9	5612.1	5677.5	5805.2	5963.1	6063.7	6060.5	5955.2	5840.3	5760.5	5747.7
17.5°	5486.0	5505.2	5599.3	5778.0	6001.4	6167.4	6212.1	6103.6	5942.4	5835.5	5817.9
20°	5292.9	5310.5	5441.3	5691.9	6014.2	6277.5	6394.0	6298.2	6097.2	5952.0	5924.8
22.5°	5042.4	5069.5	5222.7	5543.5	5983.9	6392.4	6601.4	6536.0	6277.5	6076.4	6039.7
25°	4774.3	4803.1	4981.8	5361.6	5905.7	6475.4	6847.2	6805.7	6481.7	6231.2	6180.2
27.5°	4543.0	4573.3	4768.0	5181.2	5784.4	6507.3	7089.7	7110.4	6729.1	6402.0	6347.7
30°	4361.1	4389.8	4597.2	5036.0	5628.0	6475.4	7301.9	7445.5	6981.2	6550.4	6472.2
32.5°	4161.6	4198.3	4416.9	4858.9	5442.9	6398.8	7487.0	7807.8	7273.2	6709.9	6611.0
35°	3909.5	3943.0	4172.8	4616.4	5200.4	6275.9	7641.8	8209.9	7691.3	6952.5	6842.4
37.5°	3603.1	3635.0	3863.2	4313.2	4959.4	6103.6	7759.9	8663.1	8189.1	7301.9	7155.1
40°	3295.1	3325.4	3539.3	3974.9	4670.6	5883.4	7801.4	9106.7	8760.4	7782.2	7625.9
42.5°	3012.7	3039.8	3236.1	3641.4	4346.7	5602.5	7747.1	9492.8	9272.6	8117.3	7916.3
45°	2752.6	2776.5	2950.5	3328.6	4010.0	5261.0	7584.4	9907.7	9882.2	8356.7	8085.4
47.5°	2455.8	2479.7	2660.0	3025.5	3673.3	4860.5	7308.3	10316.2	10729.5	8899.2	8586.5
50°	2093.6	2114.3	2299.4	2676.0	3323.8	4434.5	6925.3	10636.9	11798.6	9721.0	9328.5
52.5°	1664.3	1686.7	1867.0	2243.6	2909.0	3976.5	6421.1	10846.0	13033.7	10921.0	10437.5
55°	1238.3	1254.2	1410.6	1748.9	2395.1	3454.7	5789.2	10905.0	14434.7	12561.4	11956.6
57.5°	898.4	908.0	1008.5	1260.6	1815.9	2802.1	5021.7	10751.8	16102.2	14664.5	13903.4
60°	727.6	730.8	761.1	872.8	1262.2	2064.8	4094.6	10225.3	17911.8	17375.6	16416.6
62.5°	660.6	660.6	668.6	698.9	853.7	1362.7	2972.8	9133.8	19852.1	20801.6	19517.0
65°	614.3	614.3	617.5	631.9	673.4	868.1	1876.5	7356.2	21487.7	24814.8	23190.3
67.5°	572.9	574.5	572.9	577.6	601.6	641.5	1088.3	5080.7	22368.6	28973.2	27219.5
70°	529.8	533.0	525.0	525.0	544.1	545.7	681.4	2786.1	21637.7	32458.2	31997.0
72.5°	478.7	483.5	470.7	467.5	481.9	475.5	512.2	1337.2	18577.2	33498.6	34711.3
75°	434.0	440.4	411.7	403.7	403.7	398.9	416.5	686.2	12057.1	27326.4	29228.5
77.5°	394.1	406.9	360.6	335.1	328.7	314.4	339.9	419.7	5273.8	12829.4	12563.0
80°	325.5	343.1	296.8	266.5	255.3	239.4	268.1	293.6	1568.6	2979.2	2853.1
82.5°	242.5	250.5	210.6	189.9	180.3	169.1	201.1	204.2	510.6	1054.8	1192.0
85°	154.8	158.0	129.3	111.7	106.9	102.1	127.7	111.7	194.7	775.5	1126.6
87.5°	54.3	62.2	49.5	44.7	47.9	39.9	59.0	33.5	54.3	547.3	678.2
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)