

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: P884595

Luminaire Tested: **NAV-SB5C-727-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P884595
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-727-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34070 lumens
Efficiency: N/A
Efficacy: 136.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

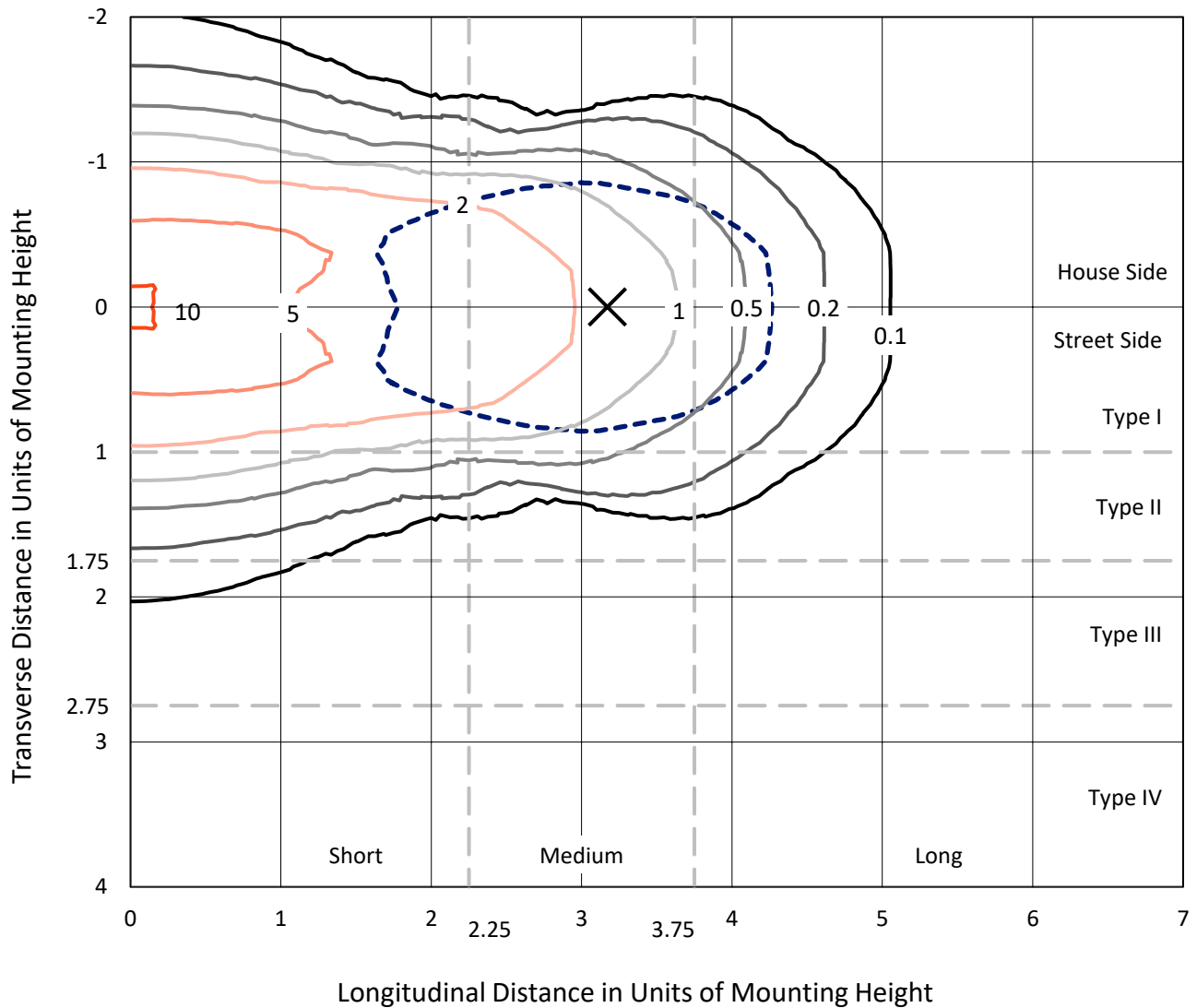
Input Watts (W): 249.5
Input Voltage (V): 120.0
Input Current (Ain): 2.116
Voltage Rise (V): NR
Power Factor: 0.996
Total Harmonic Distortion (THDi): 7.885
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

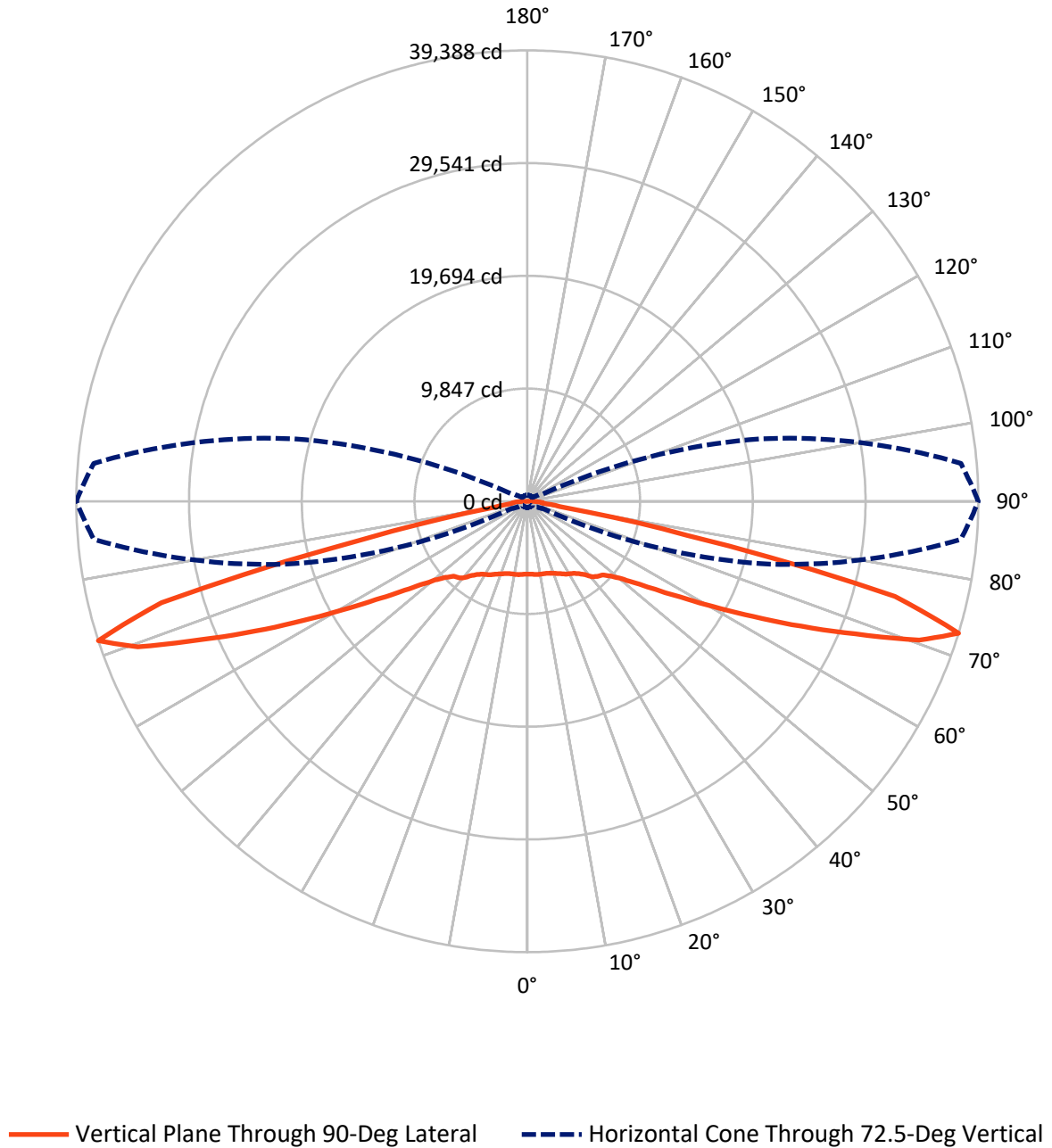
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 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	17035.0	0.0	17035.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17035.0	0.0	17035.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	34070.0	0.0	34070.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	617.3	1.8
10°-20°	1887.4	5.5
20°-30°	3147.1	9.2
30°-40°	4328.3	12.7
40°-50°	5286.0	15.5
50°-60°	6113.8	17.9
60°-70°	7289.7	21.4
70°-80°	5087.8	14.9
80°-90°	312.5	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°	34070.0	100.0
0°-180°	34070.0	100.0

Coefficient of Utilization

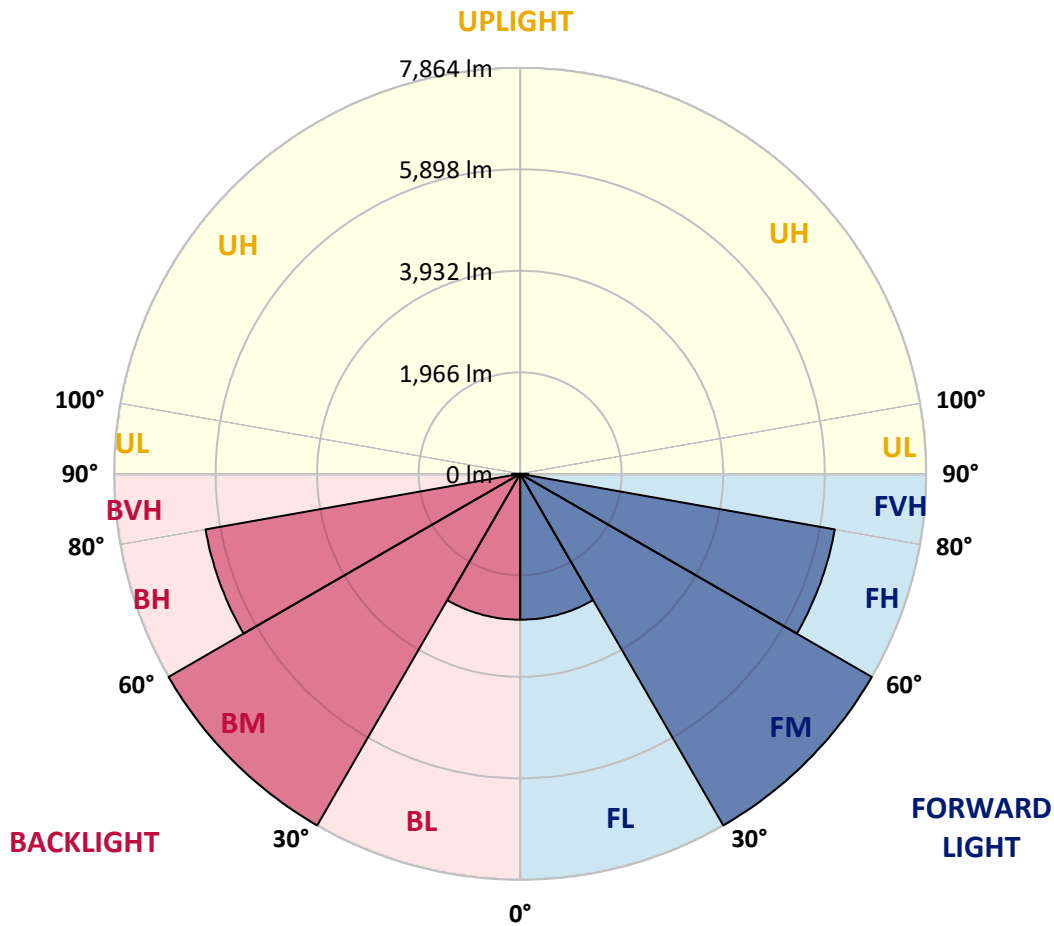


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2825.9	8.3			
FM (30°-60°)	7864.1	23.1			
FH (60°-80°)	6188.8	18.2			G3/7500
FVH (80°-90°)	156.2	0.5			G2/225
BL (0°-30°)	2825.9	8.3	B4/5000		
BM (30°-60°)	7864.1	23.1	B4/8500		
BH (60°-80°)	6188.8	18.2	B5		G5
BVH (80°-90°)	156.2	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	6366.3	6366.3	6366.3	6366.3	6366.3	6366.3	6366.3	6366.3	6366.3	6366.3	6366.3
2.5°	6371.8	6379.0	6379.0	6373.6	6386.3	6375.4	6375.4	6370.0	6375.4	6370.0	6370.0
5°	6404.4	6413.4	6417.0	6415.2	6431.5	6422.5	6422.5	6415.2	6417.0	6411.6	6411.6
7.5°	6465.9	6478.6	6485.8	6494.9	6518.4	6507.6	6500.3	6478.6	6469.5	6455.1	6455.1
10°	6485.8	6500.3	6523.9	6570.9	6625.3	6627.1	6605.3	6551.0	6509.4	6476.8	6471.4
12.5°	6424.3	6444.2	6493.1	6589.1	6710.4	6759.3	6724.9	6634.3	6552.8	6494.9	6485.8
15°	6346.4	6368.1	6442.4	6587.2	6766.5	6880.6	6876.9	6757.4	6627.1	6536.5	6522.1
17.5°	6225.1	6246.8	6353.7	6556.5	6810.0	6998.3	7049.0	6925.8	6743.0	6621.6	6601.7
20°	6006.0	6025.9	6174.4	6458.7	6824.4	7123.2	7255.4	7146.7	6918.6	6753.8	6723.0
22.5°	5721.7	5752.5	5926.3	6290.3	6790.0	7253.6	7490.8	7416.5	7123.2	6895.1	6853.4
25°	5417.5	5450.1	5652.9	6083.9	6701.3	7347.7	7769.6	7722.5	7355.0	7070.7	7012.8
27.5°	5155.0	5189.4	5410.3	5879.3	6563.7	7383.9	8044.8	8068.4	7635.6	7264.4	7202.9
30°	4948.6	4981.2	5216.6	5714.5	6386.3	7347.7	8285.7	8448.6	7921.7	7432.8	7344.1
32.5°	4722.2	4763.9	5012.0	5513.5	6176.2	7260.8	8495.7	8859.6	8253.1	7613.9	7501.6
35°	4436.2	4474.2	4734.9	5238.3	5901.0	7121.4	8671.3	9315.9	8727.5	7889.1	7764.2
37.5°	4088.5	4124.7	4383.6	4894.3	5627.6	6925.8	8805.3	9830.2	9292.4	8285.7	8119.1
40°	3739.0	3773.5	4016.1	4510.4	5299.9	6676.0	8852.4	10333.5	9940.6	8830.7	8653.2
42.5°	3418.6	3449.3	3672.1	4132.0	4932.3	6357.3	8790.8	10771.7	10521.8	9210.9	8982.8
45°	3123.4	3150.6	3347.9	3777.1	4550.2	5969.8	8606.1	11242.5	11213.5	9482.5	9174.7
47.5°	2786.6	2813.8	3018.4	3433.0	4168.2	5515.3	8292.9	11706.0	12175.0	10098.1	9743.3
50°	2375.6	2399.1	2609.2	3036.5	3771.6	5031.9	7858.3	12070.0	13388.1	11030.6	10585.2
52.5°	1888.5	1913.9	2118.5	2545.8	3300.9	4512.2	7286.2	12307.2	14789.6	12392.3	11843.6
55°	1405.1	1423.2	1600.6	1984.5	2717.8	3920.1	6569.1	12374.2	16379.4	14253.6	13567.4
57.5°	1019.4	1030.3	1144.3	1430.4	2060.6	3179.5	5698.2	12200.3	18271.5	16640.1	15776.4
60°	825.7	829.3	863.7	990.4	1432.2	2343.0	4646.2	11602.8	20324.8	19716.5	18628.2
62.5°	749.6	749.6	758.7	793.1	968.7	1546.3	3373.3	10364.3	22526.6	23604.0	22146.4
65°	697.1	697.1	700.7	717.0	764.1	985.0	2129.4	8347.2	24382.6	28157.8	26314.6
67.5°	650.0	651.8	650.0	655.5	682.6	727.9	1234.9	5765.2	25382.1	32876.5	30886.5
70°	601.1	604.8	595.7	595.7	617.4	619.3	773.2	3161.4	24552.8	36831.0	36307.7
72.5°	543.2	548.6	534.1	530.5	546.8	539.6	581.2	1517.3	21079.9	38011.5	39387.6
75°	492.5	499.7	467.2	458.1	458.1	452.7	472.6	778.6	13681.5	31007.8	33166.2
77.5°	447.2	461.7	409.2	380.2	373.0	356.7	385.7	476.2	5984.3	14557.8	14255.5
80°	369.4	389.3	336.8	302.4	289.7	271.6	304.2	333.2	1779.9	3380.5	3237.5
82.5°	275.2	284.3	239.0	215.5	204.6	191.9	228.1	231.8	579.4	1196.9	1352.6
85°	175.6	179.3	146.7	126.7	121.3	115.9	144.9	126.7	220.9	880.0	1278.3
87.5°	61.6	70.6	56.1	50.7	54.3	45.3	67.0	38.0	61.6	621.1	769.5
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)