

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: P883745

Luminaire Tested: **NAV-SB4B-727-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883745
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-SB4B-727-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20459 lumens
Efficiency: N/A
Efficacy: 139.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

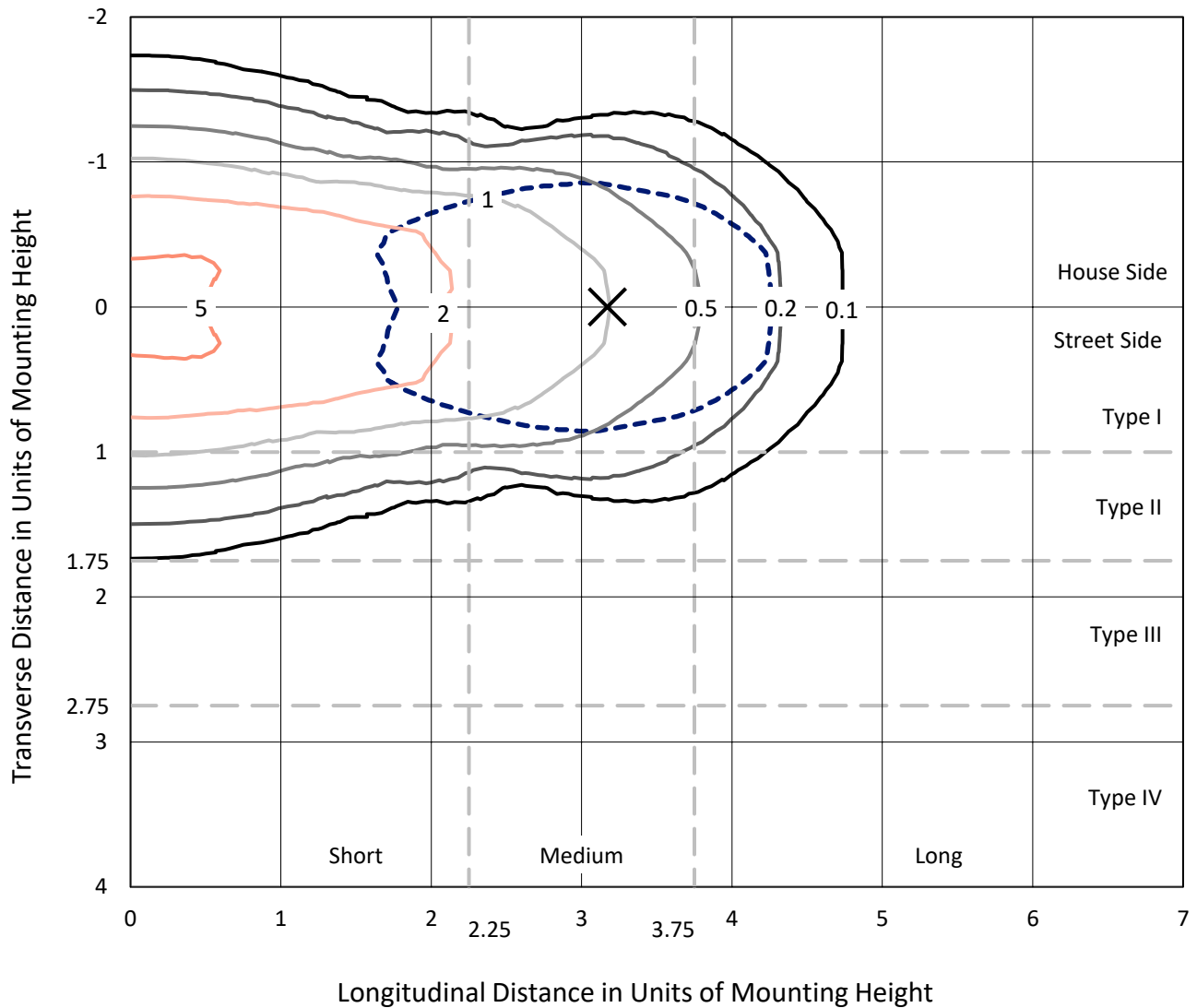
Input Watts (W): 147
Input Voltage (V): 120.0
Input Current (Ain): 1.255
Voltage Rise (V): NR
Power Factor: 0.988
Total Harmonic Distortion (THDi): 13.593
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

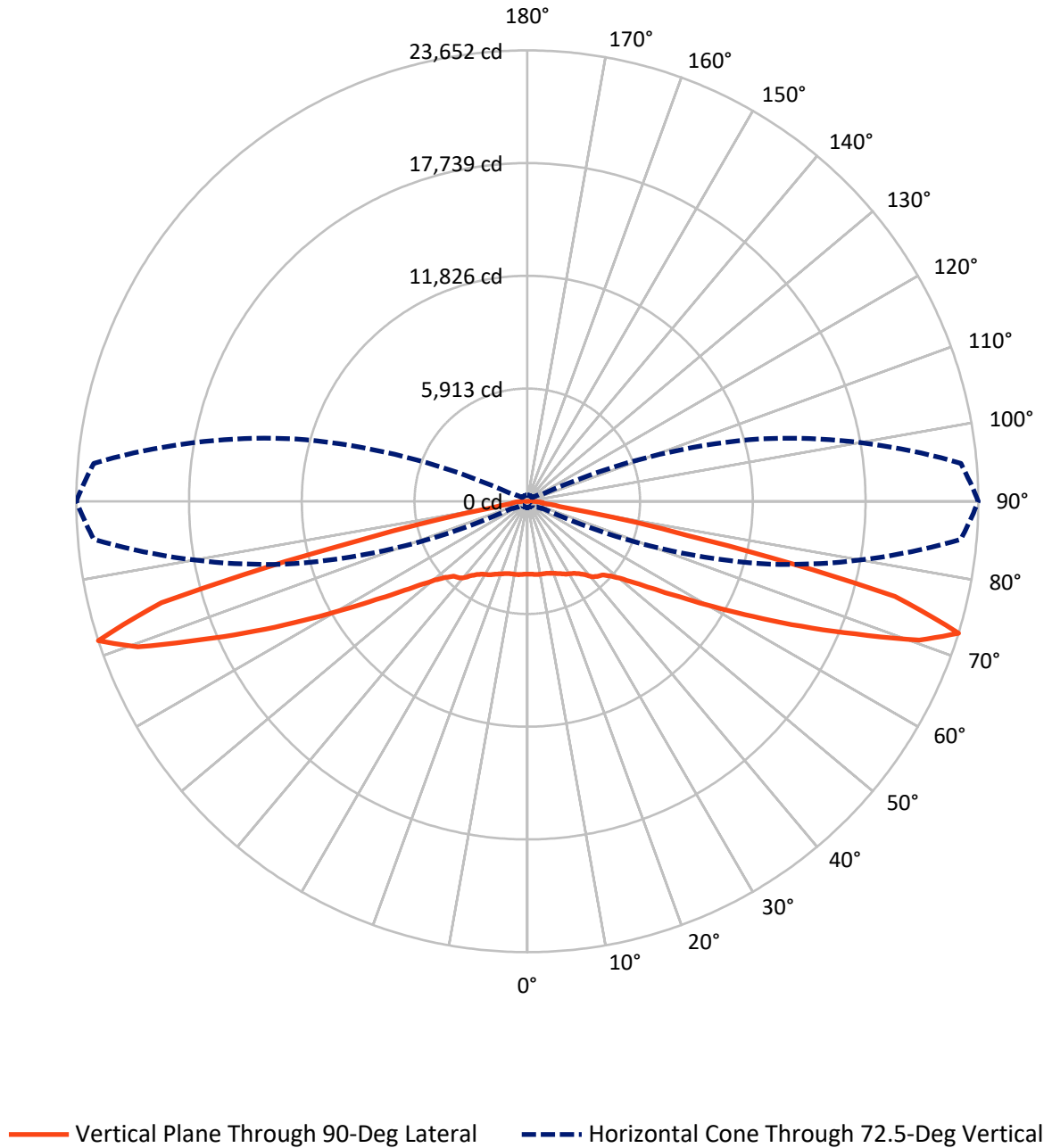
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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	10229.5	0.0	10229.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10229.5	0.0	10229.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	20459.0	0.0	20459.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	370.7	1.8
10°-20°	1133.4	5.5
20°-30°	1889.9	9.2
30°-40°	2599.1	12.7
40°-50°	3174.2	15.5
50°-60°	3671.4	17.9
60°-70°	4377.5	21.4
70°-80°	3055.2	14.9
80°-90°	187.6	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°	20459.0	100.0
0°-180°	20459.0	100.0

Coefficient of Utilization



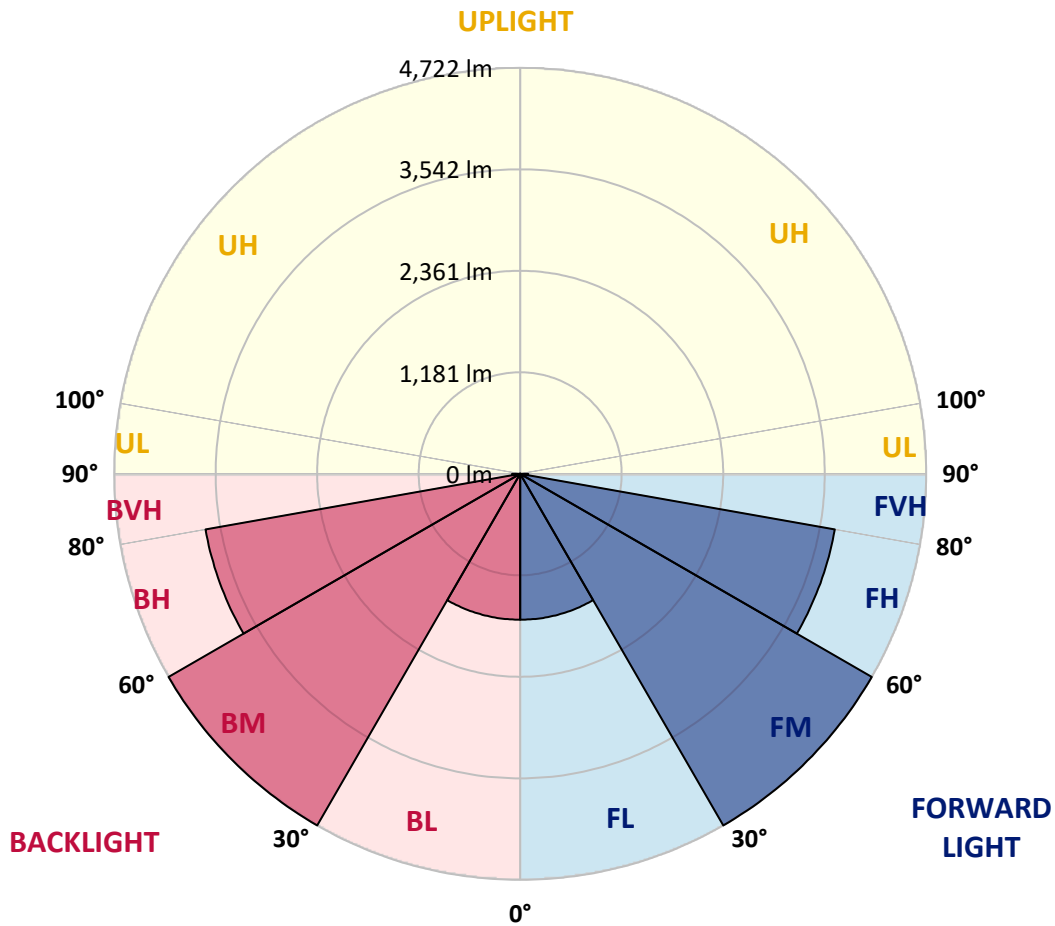
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1697.0	8.3			
FM (30°-60°)	4722.4	23.1			
FH (60°-80°)	3716.3	18.2			G2/5000
FVH (80°-90°)	93.8	0.5			G1/100
BL (0°-30°)	1697.0	8.3	B3/2500		
BM (30°-60°)	4722.4	23.1	B3/5000		
BH (60°-80°)	3716.3	18.2	B4/5000		G4/5000
BVH (80°-90°)	93.8	0.5			G1/100
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°	3823.0	3823.0	3823.0	3823.0	3823.0	3823.0	3823.0	3823.0	3823.0	3823.0	3823.0
2.5°	3826.2	3830.6	3830.6	3827.3	3834.9	3828.4	3828.4	3825.2	3828.4	3825.2	3825.2
5°	3845.8	3851.3	3853.4	3852.3	3862.1	3856.7	3856.7	3852.3	3853.4	3850.2	3850.2
7.5°	3882.8	3890.4	3894.7	3900.2	3914.3	3907.8	3903.4	3890.4	3885.0	3876.3	3876.3
10°	3894.7	3903.4	3917.6	3945.8	3978.5	3979.6	3966.5	3933.9	3908.9	3889.3	3886.0
12.5°	3857.8	3869.7	3899.1	3956.7	4029.6	4058.9	4038.3	3983.9	3935.0	3900.2	3894.7
15°	3811.0	3824.1	3868.6	3955.6	4063.3	4131.8	4129.6	4057.8	3979.6	3925.2	3916.5
17.5°	3738.2	3751.2	3815.4	3937.1	4089.4	4202.5	4232.9	4159.0	4049.1	3976.3	3964.3
20°	3606.6	3618.6	3707.7	3878.4	4098.1	4277.5	4356.8	4291.6	4154.6	4055.7	4037.2
22.5°	3435.9	3454.4	3558.8	3777.3	4077.4	4355.8	4498.2	4453.6	4277.5	4140.5	4115.5
25°	3253.2	3272.8	3394.6	3653.4	4024.1	4412.3	4665.6	4637.4	4416.7	4245.9	4211.1
27.5°	3095.6	3116.2	3248.9	3530.5	3941.5	4434.0	4830.9	4845.1	4585.2	4362.3	4325.3
30°	2971.6	2991.2	3132.5	3431.5	3834.9	4412.3	4975.5	5073.4	4757.0	4463.4	4410.1
32.5°	2835.7	2860.7	3009.7	3310.9	3708.8	4360.1	5101.7	5320.2	4956.0	4572.1	4504.7
35°	2663.9	2686.7	2843.3	3145.6	3543.5	4276.4	5207.1	5594.2	5240.8	4737.4	4662.4
37.5°	2455.1	2476.9	2632.4	2939.0	3379.4	4159.0	5287.6	5903.0	5580.1	4975.5	4875.5
40°	2245.3	2266.0	2411.7	2708.5	3182.6	4008.9	5315.9	6205.3	5969.3	5302.8	5196.3
42.5°	2052.8	2071.3	2205.1	2481.2	2961.8	3817.5	5278.9	6468.4	6318.4	5531.1	5394.1
45°	1875.6	1891.9	2010.4	2268.1	2732.4	3584.9	5168.0	6751.1	6733.7	5694.2	5509.4
47.5°	1673.4	1689.7	1812.5	2061.5	2503.0	3311.9	4979.9	7029.5	7311.1	6063.9	5850.8
50°	1426.6	1440.7	1566.8	1823.4	2264.9	3021.6	4718.9	7248.0	8039.6	6623.9	6356.4
52.5°	1134.1	1149.3	1272.2	1528.8	1982.2	2709.6	4375.3	7390.4	8881.1	7441.5	7112.1
55°	843.8	854.6	961.2	1191.7	1632.1	2354.0	3944.8	7430.7	9835.8	8559.3	8147.2
57.5°	612.2	618.7	687.2	859.0	1237.4	1909.3	3421.8	7326.3	10972.0	9992.4	9473.7
60°	495.8	498.0	518.6	594.8	860.1	1407.0	2790.0	6967.5	12205.0	11839.7	11186.2
62.5°	450.1	450.1	455.6	476.2	581.7	928.6	2025.7	6223.8	13527.2	14174.2	13298.9
65°	418.6	418.6	420.8	430.6	458.8	591.5	1278.7	5012.5	14641.7	16908.7	15801.9
67.5°	390.3	391.4	390.3	393.6	409.9	437.1	741.5	3462.0	15241.9	19742.3	18547.3
70°	361.0	363.2	357.7	357.7	370.8	371.9	464.3	1898.4	14743.9	22117.0	21802.7
72.5°	326.2	329.5	320.8	318.6	328.4	324.0	349.0	911.2	12658.5	22825.9	23652.2
75°	295.7	300.1	280.5	275.1	275.1	271.8	283.8	467.5	8215.7	18620.2	19916.2
77.5°	268.6	277.3	245.7	228.3	224.0	214.2	231.6	286.0	3593.6	8742.0	8560.4
80°	221.8	233.8	202.2	181.6	174.0	163.1	182.7	200.1	1068.8	2030.0	1944.1
82.5°	165.3	170.7	143.5	129.4	122.9	115.3	137.0	139.2	347.9	718.7	812.2
85°	105.5	107.6	88.1	76.1	72.8	69.6	87.0	76.1	132.7	528.4	767.6
87.5°	37.0	42.4	33.7	30.4	32.6	27.2	40.2	22.8	37.0	372.9	462.1
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)