

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: P883235

Luminaire Tested: **NAV-SB3C-727-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883235
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-SB3C-727-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 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: 20139 lumens
Efficiency: N/A
Efficacy: 135.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

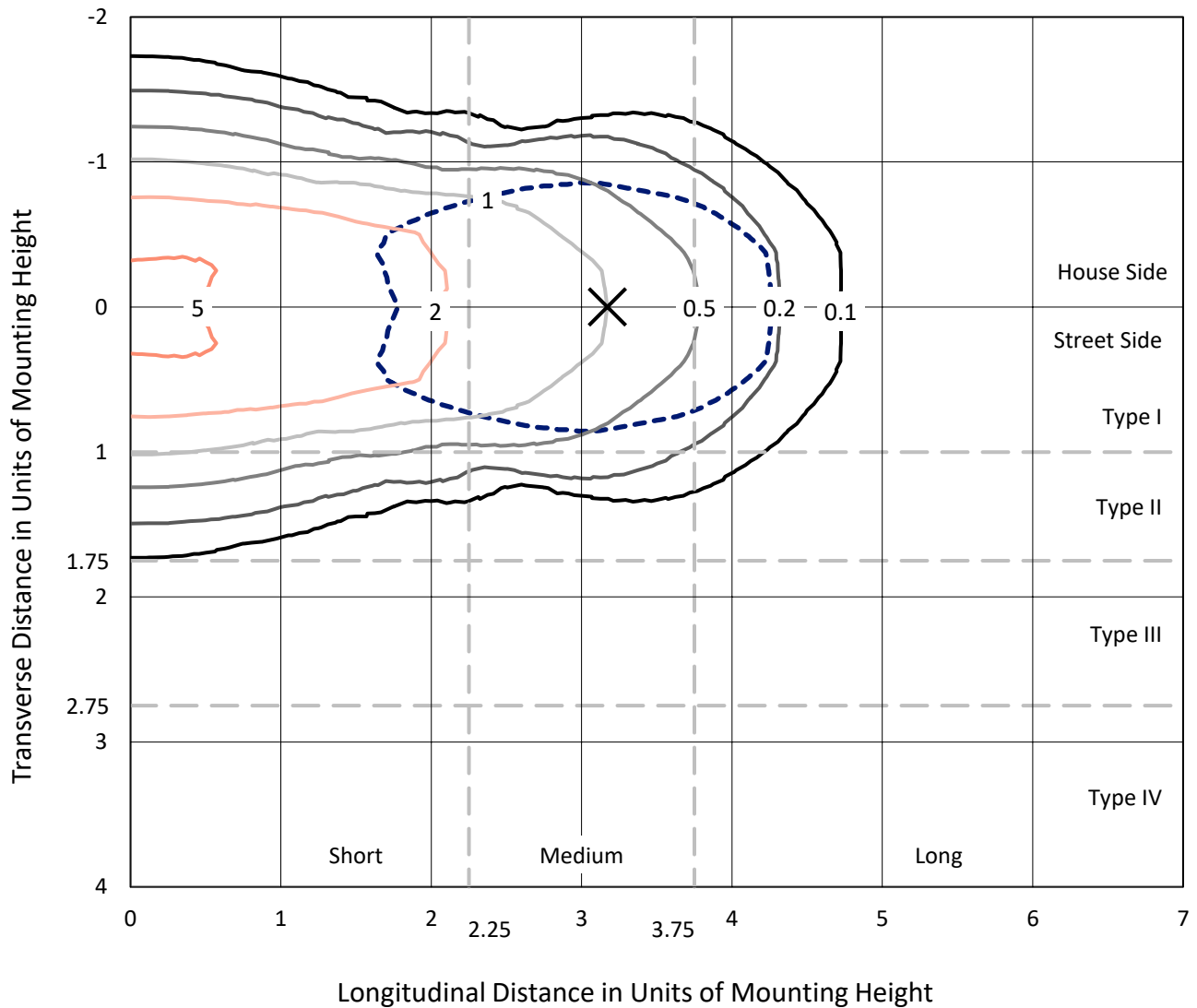
Input Watts (W): 149.1
Input Voltage (V): 120.0
Input Current (Ain): 1.259
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.297
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

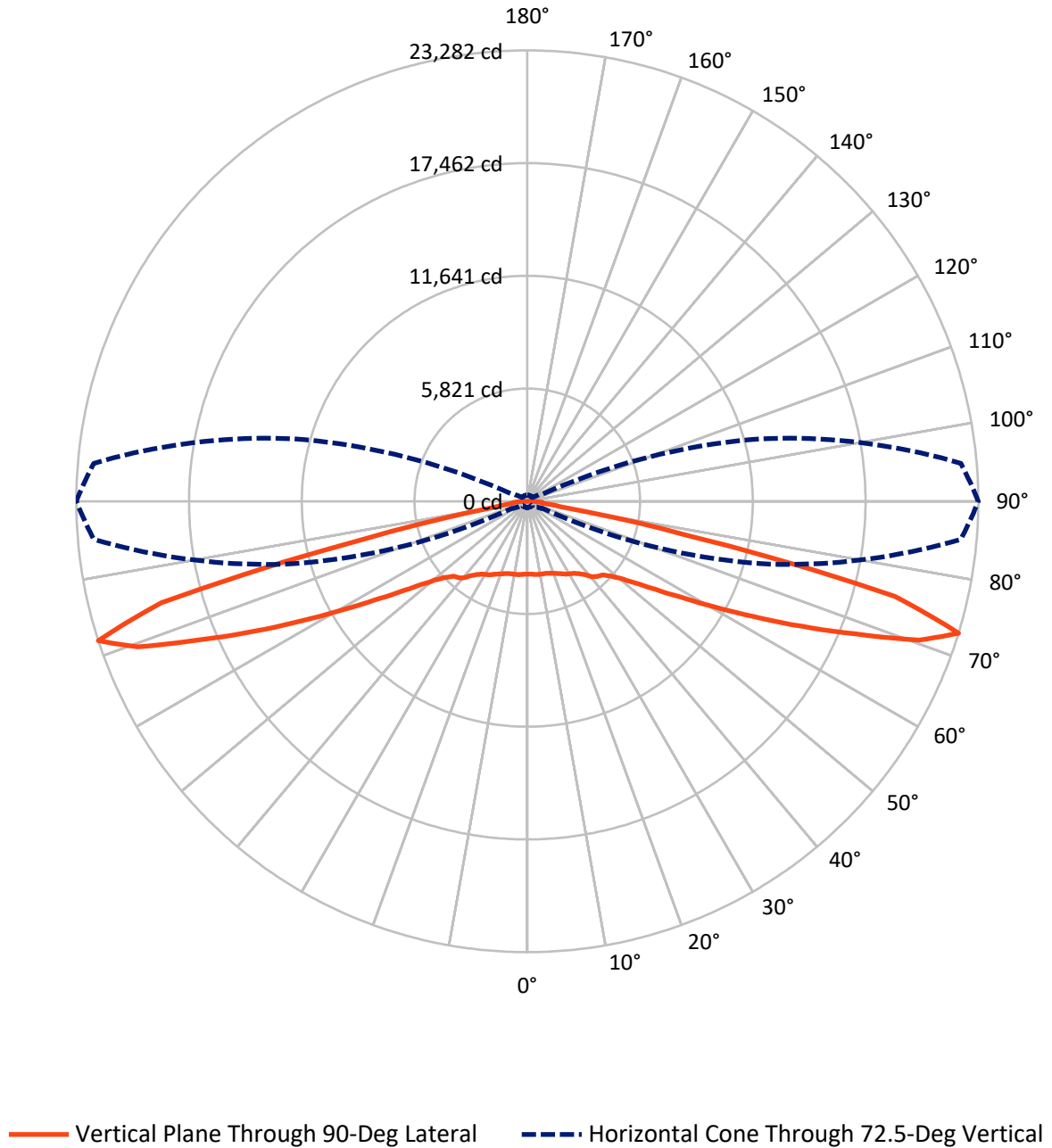
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 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	10069.5	0.0	10069.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10069.5	0.0	10069.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	20139.0	0.0	20139.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	364.9	1.8
10°-20°	1115.7	5.5
20°-30°	1860.3	9.2
30°-40°	2558.5	12.7
40°-50°	3124.6	15.5
50°-60°	3613.9	17.9
60°-70°	4309.0	21.4
70°-80°	3007.4	14.9
80°-90°	184.7	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°	20139.0	100.0
0°-180°	20139.0	100.0

Coefficient of Utilization



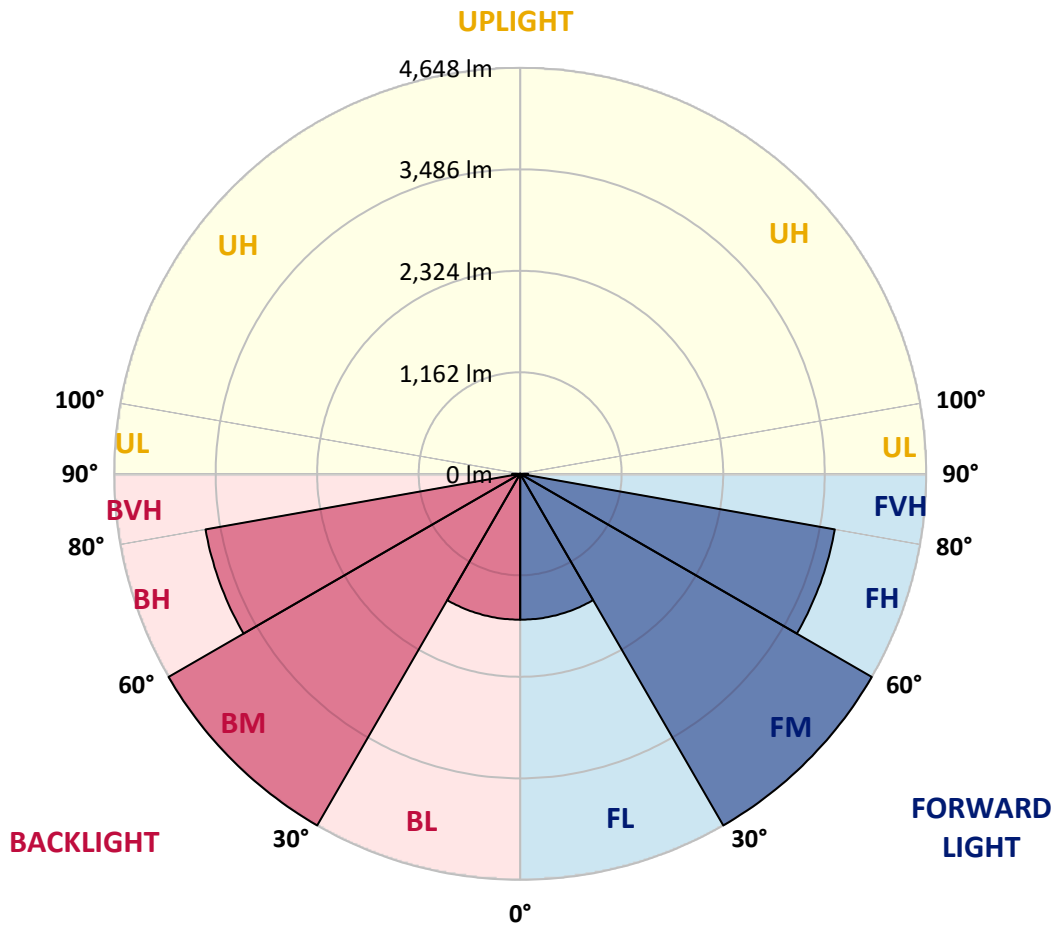
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1670.4	8.3			
FM (30°-60°)	4648.5	23.1			
FH (60°-80°)	3658.2	18.2			G2/5000
FVH (80°-90°)	92.4	0.5			G1/100
BL (0°-30°)	1670.4	8.3	B3/2500		
BM (30°-60°)	4648.5	23.1	B3/5000		
BH (60°-80°)	3658.2	18.2	B4/5000		G4/5000
BVH (80°-90°)	92.4	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°	3763.2	3763.2	3763.2	3763.2	3763.2	3763.2	3763.2	3763.2	3763.2	3763.2	3763.2
2.5°	3766.4	3770.7	3770.7	3767.5	3775.0	3768.5	3768.5	3765.3	3768.5	3765.3	3765.3
5°	3785.7	3791.0	3793.2	3792.1	3801.7	3796.4	3796.4	3792.1	3793.2	3789.9	3789.9
7.5°	3822.1	3829.5	3833.8	3839.2	3853.1	3846.7	3842.4	3829.5	3824.2	3815.6	3815.6
10°	3833.8	3842.4	3856.3	3884.1	3916.2	3917.3	3904.5	3872.4	3847.7	3828.5	3825.3
12.5°	3797.4	3809.2	3838.1	3894.8	3966.5	3995.4	3975.1	3921.6	3873.4	3839.2	3833.8
15°	3751.4	3764.3	3808.1	3893.8	3999.7	4067.2	4065.0	3994.4	3917.3	3863.8	3855.2
17.5°	3679.7	3692.5	3755.7	3875.6	4025.4	4136.7	4166.7	4093.9	3985.8	3914.1	3902.3
20°	3550.2	3562.0	3649.7	3817.8	4034.0	4210.6	4288.7	4224.5	4089.6	3992.2	3974.0
22.5°	3382.2	3400.4	3503.1	3718.2	4013.6	4287.6	4427.8	4384.0	4210.6	4075.7	4051.1
25°	3202.3	3221.6	3341.5	3596.2	3961.2	4343.3	4592.7	4564.8	4347.6	4179.5	4145.3
27.5°	3047.2	3067.5	3198.1	3475.3	3879.8	4364.7	4755.4	4769.3	4513.5	4294.1	4257.7
30°	2925.1	2944.4	3083.5	3377.9	3775.0	4343.3	4897.7	4994.0	4682.6	4393.6	4341.1
32.5°	2791.3	2816.0	2962.6	3259.1	3650.8	4291.9	5021.9	5237.0	4878.4	4500.6	4434.3
35°	2622.2	2644.7	2798.8	3096.4	3488.1	4209.5	5125.7	5506.7	5158.9	4663.3	4589.5
37.5°	2416.7	2438.1	2591.2	2893.0	3326.5	4093.9	5204.9	5810.7	5492.8	4897.7	4799.2
40°	2210.2	2230.5	2373.9	2666.1	3132.8	3946.2	5232.7	6108.2	5876.0	5219.9	5115.0
42.5°	2020.7	2038.9	2170.6	2442.4	2915.5	3757.8	5196.3	6367.2	6219.5	5444.6	5309.8
45°	1846.3	1862.3	1979.0	2232.7	2689.7	3528.8	5087.1	6645.5	6628.4	5605.2	5423.2
47.5°	1647.2	1663.3	1784.2	2029.3	2463.8	3260.1	4902.0	6919.5	7196.7	5969.1	5759.3
50°	1404.2	1418.2	1542.3	1794.9	2229.4	2974.4	4645.1	7134.6	7913.8	6520.3	6257.0
52.5°	1116.3	1131.3	1252.3	1504.8	1951.2	2667.2	4306.9	7274.8	8742.2	7325.2	7000.9
55°	830.6	841.3	946.1	1173.1	1606.5	2317.2	3883.1	7314.4	9682.0	8425.4	8019.8
57.5°	602.6	609.0	676.4	845.5	1218.0	1879.5	3368.2	7211.7	10800.4	9836.1	9325.5
60°	488.1	490.2	510.5	585.5	846.6	1385.0	2746.4	6858.5	12014.1	11654.5	11011.3
62.5°	443.1	443.1	448.5	468.8	572.6	914.0	1994.0	6126.4	13315.6	13952.5	13090.9
65°	412.1	412.1	414.2	423.8	451.7	582.2	1258.7	4934.1	14412.7	16644.3	15554.7
67.5°	384.2	385.3	384.2	387.4	403.5	430.3	729.9	3407.8	15003.5	19433.5	18257.2
70°	355.3	357.5	352.1	352.1	365.0	366.0	457.0	1868.7	14513.3	21771.0	21461.7
72.5°	321.1	324.3	315.7	313.6	323.2	319.0	343.6	896.9	12460.5	22468.9	23282.3
75°	291.1	295.4	276.1	270.8	270.8	267.6	279.3	460.2	8087.2	18328.9	19604.7
77.5°	264.4	272.9	241.9	224.8	220.5	210.8	228.0	281.5	3537.4	8605.2	8426.5
80°	218.3	230.1	199.1	178.7	171.2	160.5	179.8	196.9	1052.1	1998.3	1913.7
82.5°	162.7	168.0	141.3	127.4	120.9	113.5	134.9	137.0	342.5	707.5	799.5
85°	103.8	106.0	86.7	74.9	71.7	68.5	85.6	74.9	130.6	520.2	755.6
87.5°	36.4	41.7	33.2	30.0	32.1	26.8	39.6	22.5	36.4	367.1	454.9
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)