

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: P882725

Luminaire Tested: **NAV-SB2D-727-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P882725
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-SB2D-727-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18593 lumens
Efficiency: N/A
Efficacy: 126.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

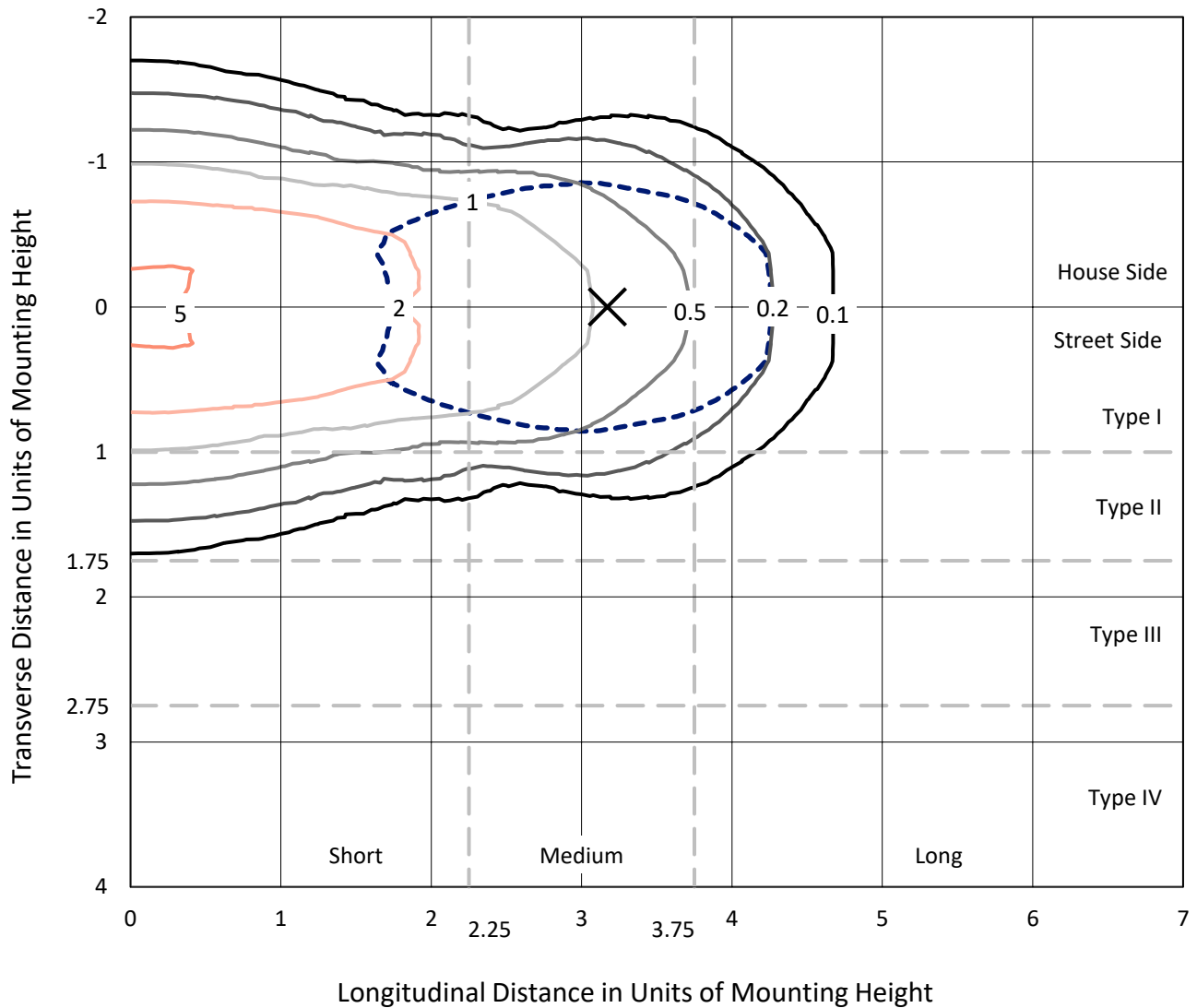
Input Watts (W): 147.6
Input Voltage (V): 120.0
Input Current (Ain): 1.234
Voltage Rise (V): NR
Power Factor: 0.999
Total Harmonic Distortion (THDi): 3.108
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

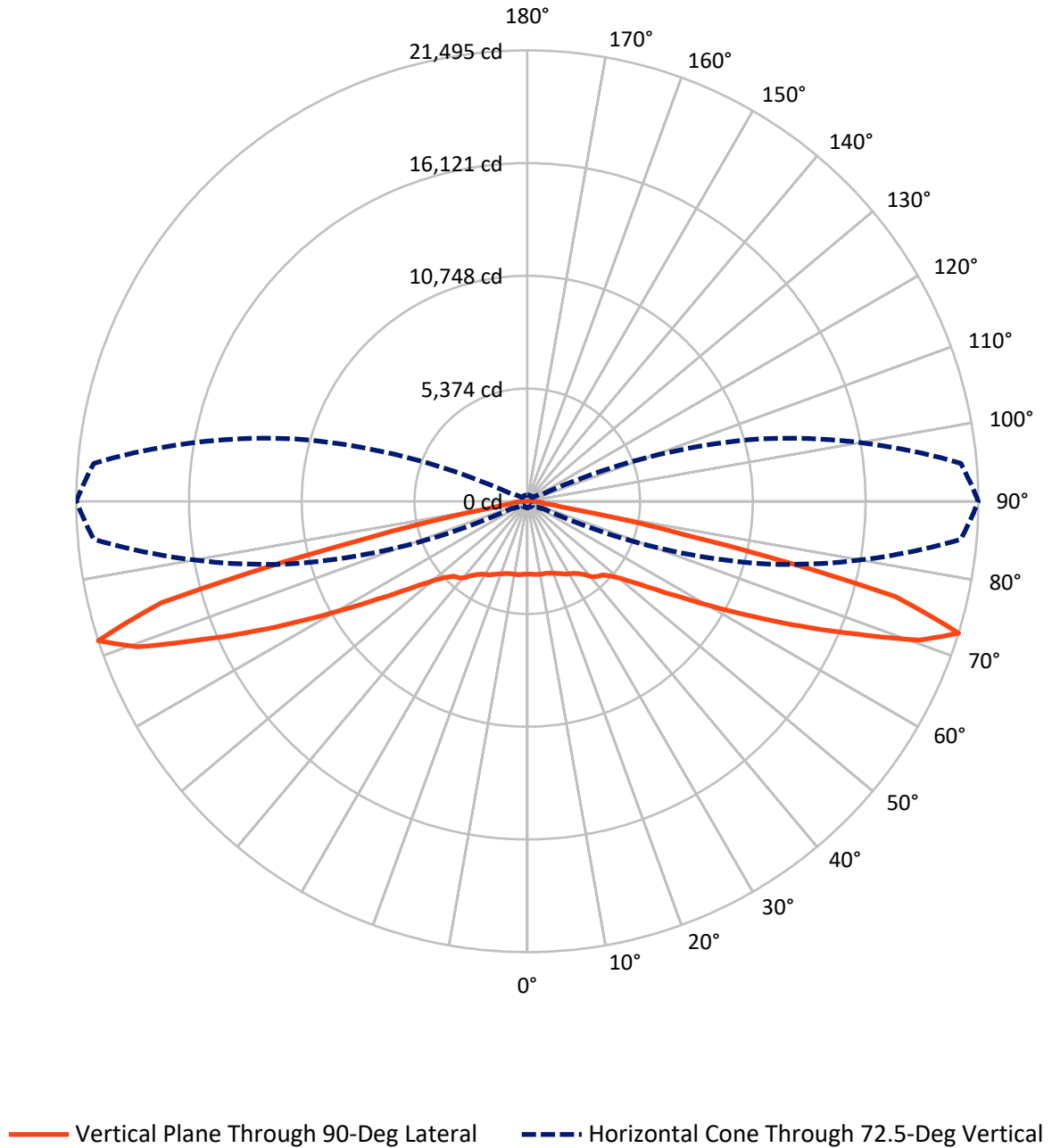
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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	9296.5	0.0	9296.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9296.5	0.0	9296.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	18593.0	0.0	18593.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	336.9	1.8
10°-20°	1030.0	5.5
20°-30°	1717.5	9.2
30°-40°	2362.1	12.7
40°-50°	2884.7	15.5
50°-60°	3336.5	17.9
60°-70°	3978.2	21.4
70°-80°	2776.5	14.9
80°-90°	170.5	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°	18593.0	100.0
0°-180°	18593.0	100.0

Coefficient of Utilization



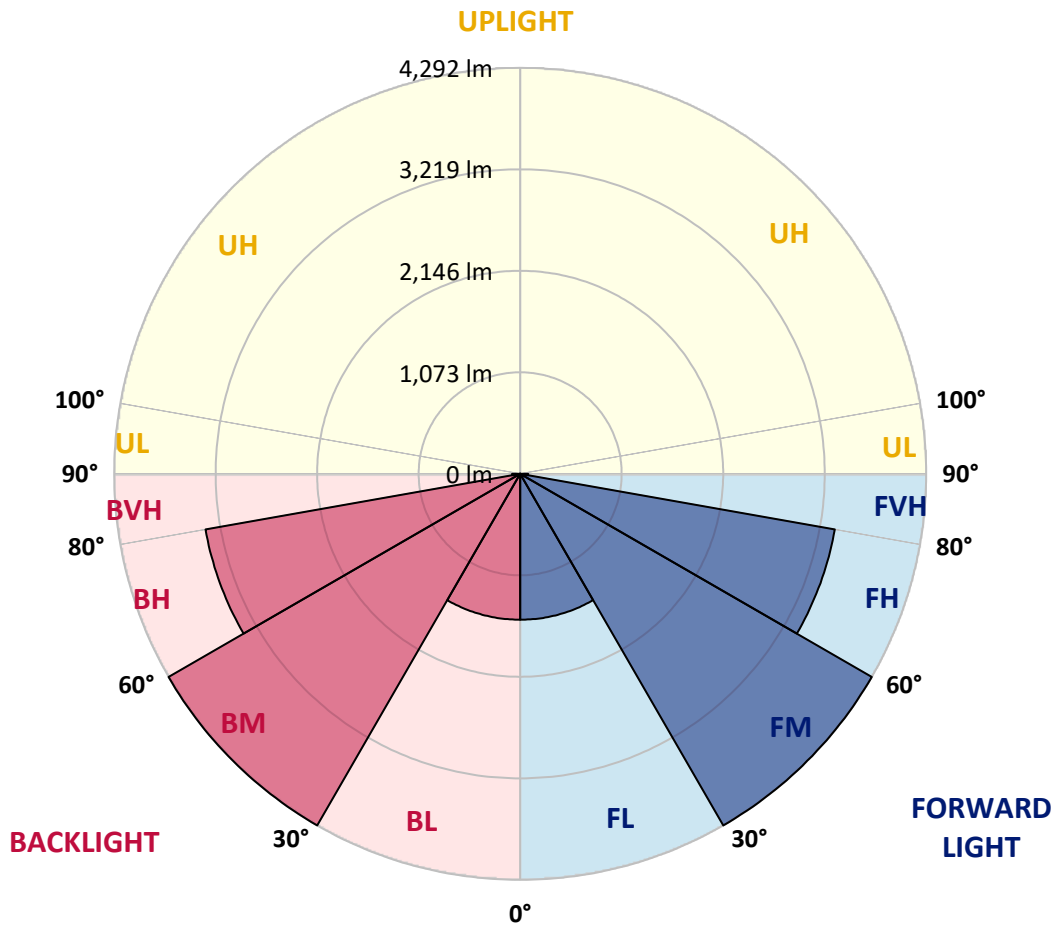
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1542.2	8.3			
FM (30°-60°)	4291.7	23.1			
FH (60°-80°)	3377.4	18.2			G2/5000
FVH (80°-90°)	85.3	0.5			G1/100
BL (0°-30°)	1542.2	8.3	B3/2500		
BM (30°-60°)	4291.7	23.1	B3/5000		
BH (60°-80°)	3377.4	18.2	B4/5000		G4/5000
BVH (80°-90°)	85.3	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°	3474.3	3474.3	3474.3	3474.3	3474.3	3474.3	3474.3	3474.3	3474.3	3474.3	3474.3
2.5°	3477.3	3481.2	3481.2	3478.3	3485.2	3479.2	3479.2	3476.3	3479.2	3476.3	3476.3
5°	3495.0	3500.0	3502.0	3501.0	3509.9	3504.9	3504.9	3501.0	3502.0	3499.0	3499.0
7.5°	3528.6	3535.6	3539.5	3544.5	3557.3	3551.4	3547.4	3535.6	3530.6	3522.7	3522.7
10°	3539.5	3547.4	3560.3	3586.0	3615.6	3616.6	3604.7	3575.1	3552.4	3534.6	3531.6
12.5°	3505.9	3516.8	3543.5	3595.8	3662.0	3688.7	3669.9	3620.5	3576.1	3544.5	3539.5
15°	3463.4	3475.3	3515.8	3594.9	3692.7	3754.9	3753.0	3687.7	3616.6	3567.2	3559.3
17.5°	3397.2	3409.1	3467.4	3578.1	3716.4	3819.2	3846.8	3779.6	3679.8	3613.6	3602.8
20°	3277.7	3288.5	3369.6	3524.7	3724.3	3887.3	3959.5	3900.2	3775.7	3685.8	3669.0
22.5°	3122.5	3139.3	3234.2	3432.8	3705.5	3958.5	4087.9	4047.4	3887.3	3762.8	3740.1
25°	2956.5	2974.3	3085.0	3320.1	3657.1	4009.9	4240.1	4214.4	4013.8	3858.7	3827.1
27.5°	2813.2	2832.0	2952.6	3208.5	3582.0	4029.6	4390.3	4403.1	4167.0	3964.4	3930.8
30°	2700.6	2718.4	2846.8	3118.6	3485.2	4009.9	4521.7	4610.7	4323.1	4056.3	4007.9
32.5°	2577.1	2599.8	2735.2	3008.9	3370.5	3962.4	4636.4	4835.0	4503.9	4155.1	4093.9
35°	2420.9	2441.7	2584.0	2858.7	3220.3	3886.4	4732.2	5084.0	4762.8	4305.3	4237.1
37.5°	2231.2	2251.0	2392.3	2670.9	3071.1	3779.6	4805.3	5364.6	5071.1	4521.7	4430.8
40°	2040.5	2059.3	2191.7	2461.5	2892.3	3643.3	4831.0	5639.3	5424.9	4819.2	4722.3
42.5°	1865.6	1882.4	2003.9	2254.9	2691.7	3469.4	4797.4	5878.4	5742.1	5026.7	4902.2
45°	1704.5	1719.4	1827.1	2061.3	2483.2	3257.9	4696.6	6135.4	6119.5	5174.9	5006.9
47.5°	1520.7	1535.6	1647.2	1873.5	2274.7	3009.9	4525.7	6388.3	6644.2	5510.9	5317.2
50°	1296.4	1309.3	1423.9	1657.1	2058.3	2746.0	4288.5	6586.9	7306.3	6019.7	5776.7
52.5°	1030.6	1044.5	1156.1	1389.3	1801.4	2462.4	3976.3	6716.4	8071.1	6762.8	6463.4
55°	766.8	776.7	873.5	1083.0	1483.2	2139.3	3585.0	6752.9	8938.7	7778.6	7404.1
57.5°	556.3	562.3	624.5	780.6	1124.5	1735.2	3109.7	6658.1	9971.3	9081.0	8609.7
60°	450.6	452.6	471.3	540.5	781.6	1278.7	2535.6	6332.0	11091.9	10759.9	10166.0
62.5°	409.1	409.1	414.0	432.8	528.7	843.9	1840.9	5656.1	12293.4	12881.4	12085.9
65°	380.4	380.4	382.4	391.3	417.0	537.5	1162.1	4555.3	13306.3	15366.6	14360.6
67.5°	354.7	355.7	354.7	357.7	372.5	397.2	673.9	3146.2	13851.7	17941.6	16855.7
70°	328.1	330.0	325.1	325.1	337.0	337.9	421.9	1725.3	13399.2	20099.7	19814.2
72.5°	296.4	299.4	291.5	289.5	298.4	294.5	317.2	828.1	11503.9	20744.0	21495.0
75°	268.8	272.7	254.9	250.0	250.0	247.0	257.9	424.9	7466.4	16921.9	18099.8
77.5°	244.1	252.0	223.3	207.5	203.6	194.7	210.5	259.9	3265.8	7944.6	7779.6
80°	201.6	212.4	183.8	165.0	158.1	148.2	166.0	181.8	971.3	1844.9	1766.8
82.5°	150.2	155.1	130.4	117.6	111.7	104.7	124.5	126.5	316.2	653.2	738.1
85°	95.8	97.8	80.0	69.2	66.2	63.2	79.1	69.2	120.6	480.2	697.6
87.5°	33.6	38.5	30.6	27.7	29.6	24.7	36.6	20.8	33.6	338.9	420.0
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)