

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: P884755

Luminaire Tested: **NAV-SB5D-722-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P884755
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-SB5D-722-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40706 lumens
Efficiency: N/A
Efficacy: 111.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

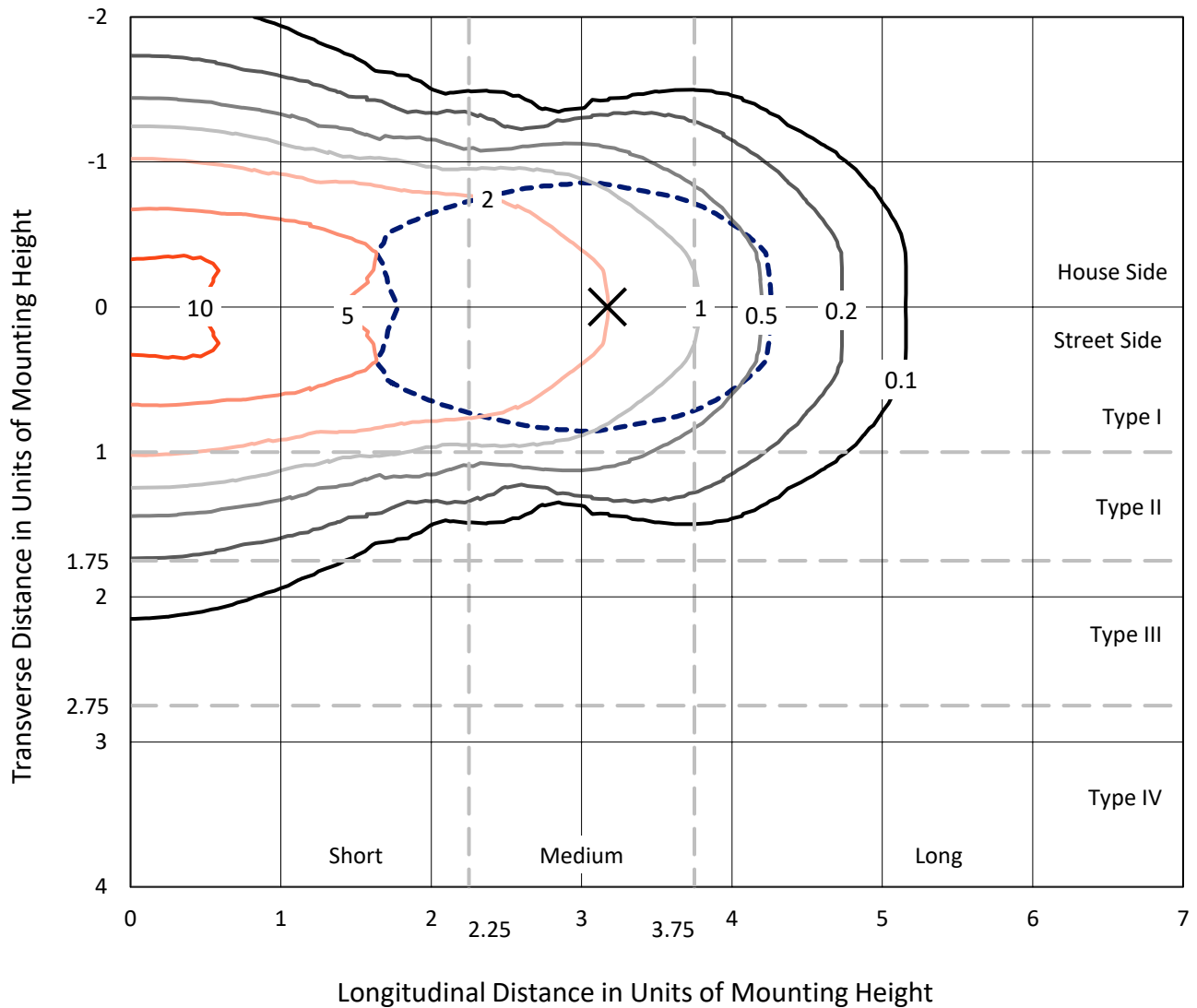
Input Watts (W): 364.9
Input Voltage (V): 120.0
Input Current (Ain): 3.094
Voltage Rise (V): NR
Power Factor: 0.998
Total Harmonic Distortion (THDi): 3.28
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

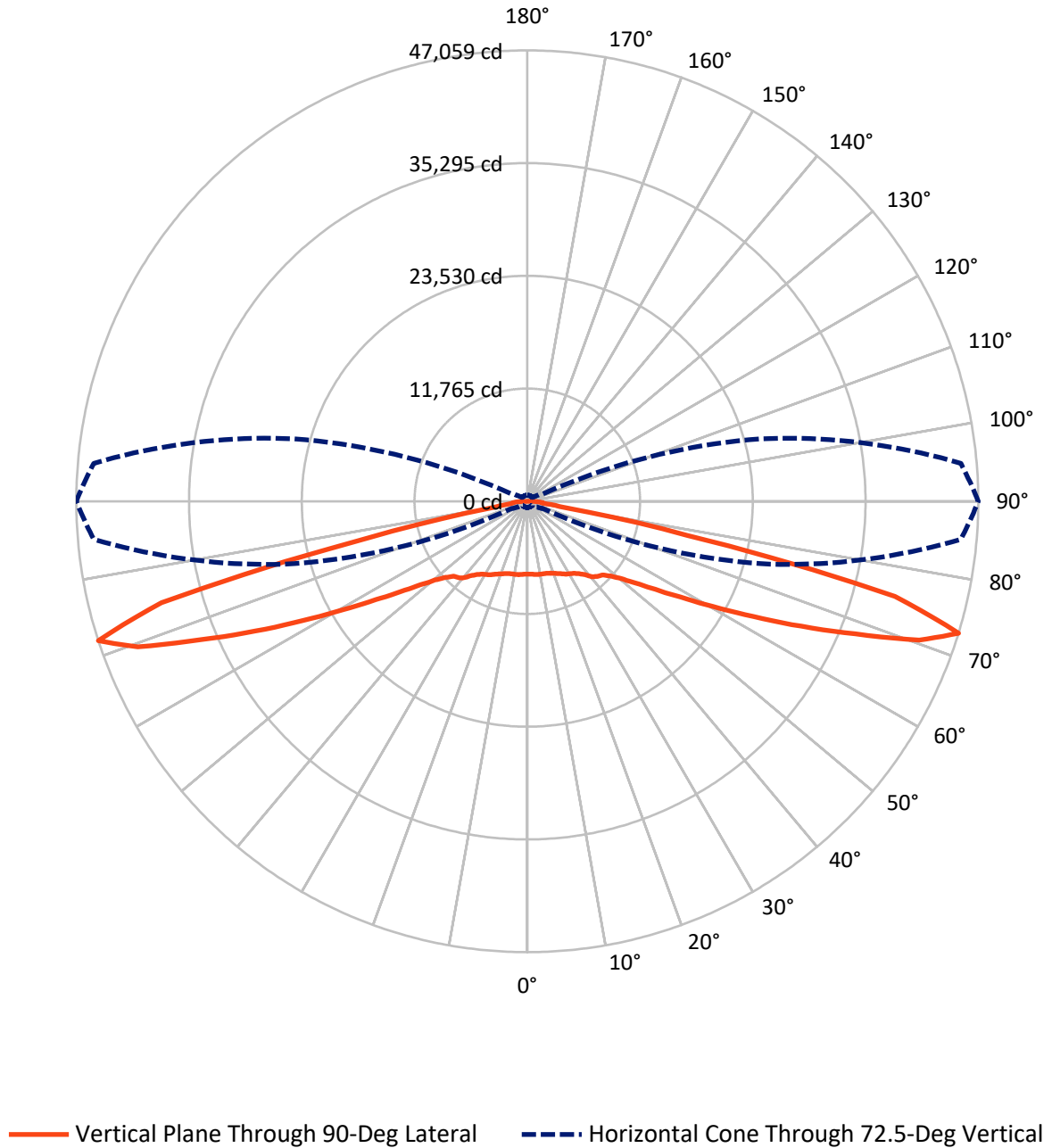
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 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	20353.0	0.0	20353.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20353.0	0.0	20353.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	40706.0	0.0	40706.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	737.5	1.8
10°-20°	2255.1	5.5
20°-30°	3760.1	9.2
30°-40°	5171.3	12.7
40°-50°	6315.6	15.5
50°-60°	7304.7	17.9
60°-70°	8709.6	21.4
70°-80°	6078.7	14.9
80°-90°	373.4	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°	40706.0	100.0
0°-180°	40706.0	100.0



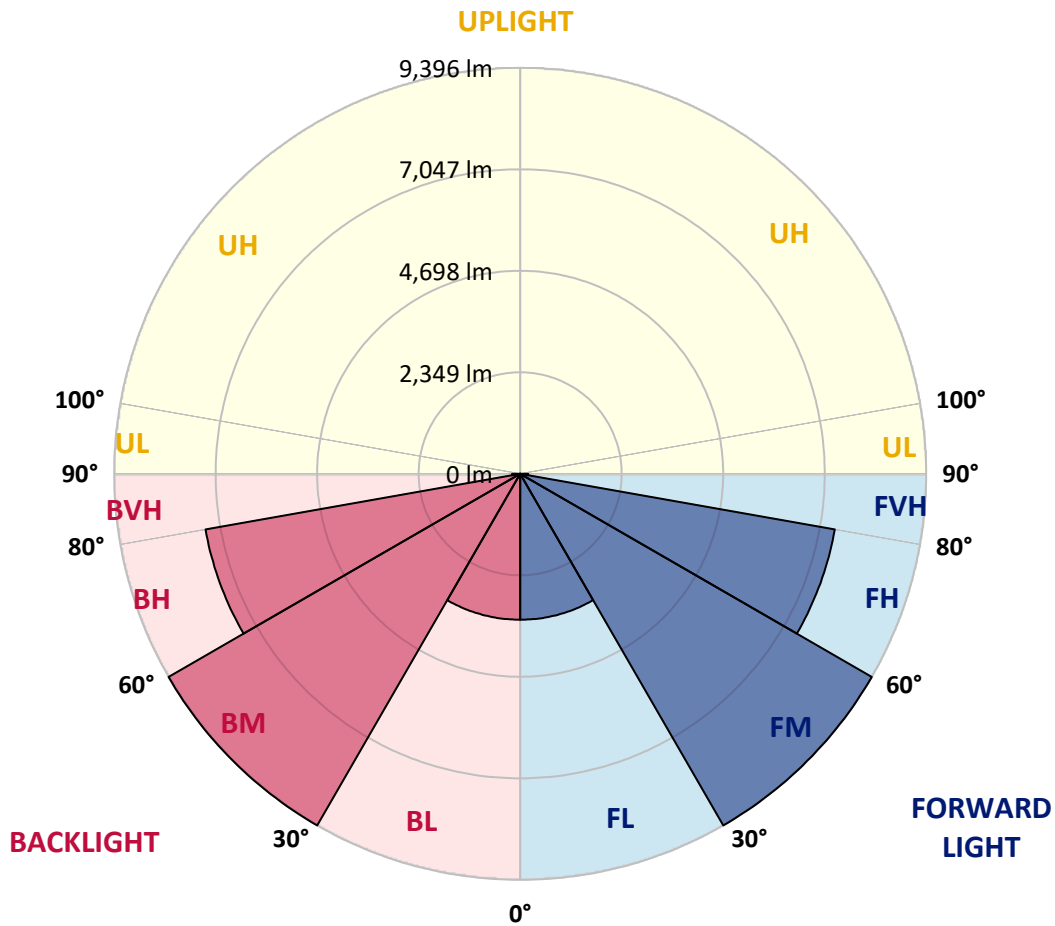
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3376.4	8.3			
FM (30°-60°)	9395.8	23.1			
FH (60°-80°)	7394.2	18.2			G3/7500
FVH (80°-90°)	186.7	0.5			G2/225
BL (0°-30°)	3376.4	8.3	B4/5000		
BM (30°-60°)	9395.8	23.1	B5		
BH (60°-80°)	7394.2	18.2	B5		G5
BVH (80°-90°)	186.7	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°	7606.3	7606.3	7606.3	7606.3	7606.3	7606.3	7606.3	7606.3	7606.3	7606.3	7606.3
2.5°	7612.8	7621.5	7621.5	7615.0	7630.1	7617.2	7617.2	7610.7	7617.2	7610.7	7610.7
5°	7651.8	7662.6	7666.9	7664.8	7684.2	7673.4	7673.4	7664.8	7666.9	7660.4	7660.4
7.5°	7725.3	7740.5	7749.1	7759.9	7788.1	7775.1	7766.4	7740.5	7729.7	7712.4	7712.4
10°	7749.1	7766.4	7794.6	7850.8	7915.7	7917.9	7891.9	7827.0	7777.3	7738.3	7731.8
12.5°	7675.6	7699.4	7757.8	7872.4	8017.4	8075.8	8034.7	7926.5	7829.2	7759.9	7749.1
15°	7582.5	7608.5	7697.2	7870.3	8084.4	8220.7	8216.4	8073.6	7917.9	7809.7	7792.4
17.5°	7437.6	7463.6	7591.2	7833.5	8136.4	8361.4	8421.9	8274.8	8056.3	7911.4	7887.6
20°	7175.8	7199.6	7377.0	7716.7	8153.7	8510.6	8668.6	8538.8	8266.2	8069.3	8032.5
22.5°	6836.2	6873.0	7080.7	7515.5	8112.6	8666.4	8949.8	8861.1	8510.6	8238.0	8188.3
25°	6472.7	6511.7	6754.0	7268.9	8006.6	8778.9	9282.9	9226.7	8787.5	8447.9	8378.7
27.5°	6159.1	6200.2	6464.1	7024.4	7842.2	8822.1	9611.8	9639.9	9122.9	8679.4	8605.8
30°	5912.4	5951.4	6232.6	6827.5	7630.1	8778.9	9899.5	10094.2	9464.7	8880.6	8774.6
32.5°	5642.0	5691.8	5988.2	6587.4	7379.2	8675.0	10150.4	10585.3	9860.6	9096.9	8962.8
35°	5300.2	5345.6	5657.2	6258.6	7050.4	8508.5	10360.3	11130.4	10427.4	9425.7	9276.5
37.5°	4884.8	4928.1	5237.5	5847.5	6723.7	8274.8	10520.4	11744.8	11102.3	9899.5	9700.5
40°	4467.3	4508.4	4798.3	5388.9	6332.1	7976.3	10576.6	12346.3	11876.8	10550.7	10338.7
42.5°	4084.4	4121.2	4387.3	4936.8	5893.0	7595.5	10503.1	12869.8	12571.2	11005.0	10732.4
45°	3731.8	3764.2	4000.0	4512.8	5436.5	7132.6	10282.4	13432.3	13397.6	11329.5	10961.7
47.5°	3329.4	3361.8	3606.3	4101.7	4980.0	6589.6	9908.2	13986.1	14546.4	12065.0	11641.0
50°	2838.3	2866.4	3117.4	3627.9	4506.3	6012.0	9388.9	14420.9	15995.8	13179.1	12647.0
52.5°	2256.4	2286.7	2531.1	3041.7	3943.8	5391.1	8705.3	14704.3	17670.3	14806.0	14150.5
55°	1678.8	1700.4	1912.4	2371.0	3247.2	4683.7	7848.6	14784.3	19569.7	17029.9	16210.0
57.5°	1218.0	1230.9	1367.2	1709.0	2461.9	3798.8	6808.1	14576.7	21830.4	19881.2	18849.3
60°	986.5	990.8	1031.9	1183.4	1711.2	2799.4	5551.2	13862.8	24283.6	23556.7	22256.6
62.5°	895.6	895.6	906.4	947.5	1157.4	1847.5	4030.3	12383.0	26914.3	28201.5	26460.0
65°	832.9	832.9	837.2	856.7	912.9	1176.9	2544.1	9973.1	29131.7	33642.3	31440.0
67.5°	776.6	778.8	776.6	783.1	815.6	869.7	1475.4	6888.1	30325.9	39280.0	36902.5
70°	718.2	722.6	711.7	711.7	737.7	739.9	923.8	3777.2	29335.1	44004.7	43379.5
72.5°	649.0	655.5	638.2	633.9	653.3	644.7	694.4	1812.9	25185.7	45415.2	47059.4
75°	588.4	597.1	558.1	547.3	547.3	540.8	564.6	930.2	16346.3	37047.4	39626.1
77.5°	534.3	551.7	488.9	454.3	445.7	426.2	460.8	569.0	7149.9	17393.4	17032.1
80°	441.3	465.1	402.4	361.3	346.1	324.5	363.4	398.1	2126.6	4039.0	3868.1
82.5°	328.8	339.6	285.6	257.4	244.5	229.3	272.6	276.9	692.3	1430.0	1616.0
85°	209.8	214.2	175.2	151.4	144.9	138.5	173.1	151.4	263.9	1051.4	1527.3
87.5°	73.6	84.4	67.1	60.6	64.9	54.1	80.0	45.4	73.6	742.0	919.4
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)