

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: P884765

Luminaire Tested: **NAV-SB5D-727-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P884765
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-727-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 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: 46294 lumens
Efficiency: N/A
Efficacy: 126.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

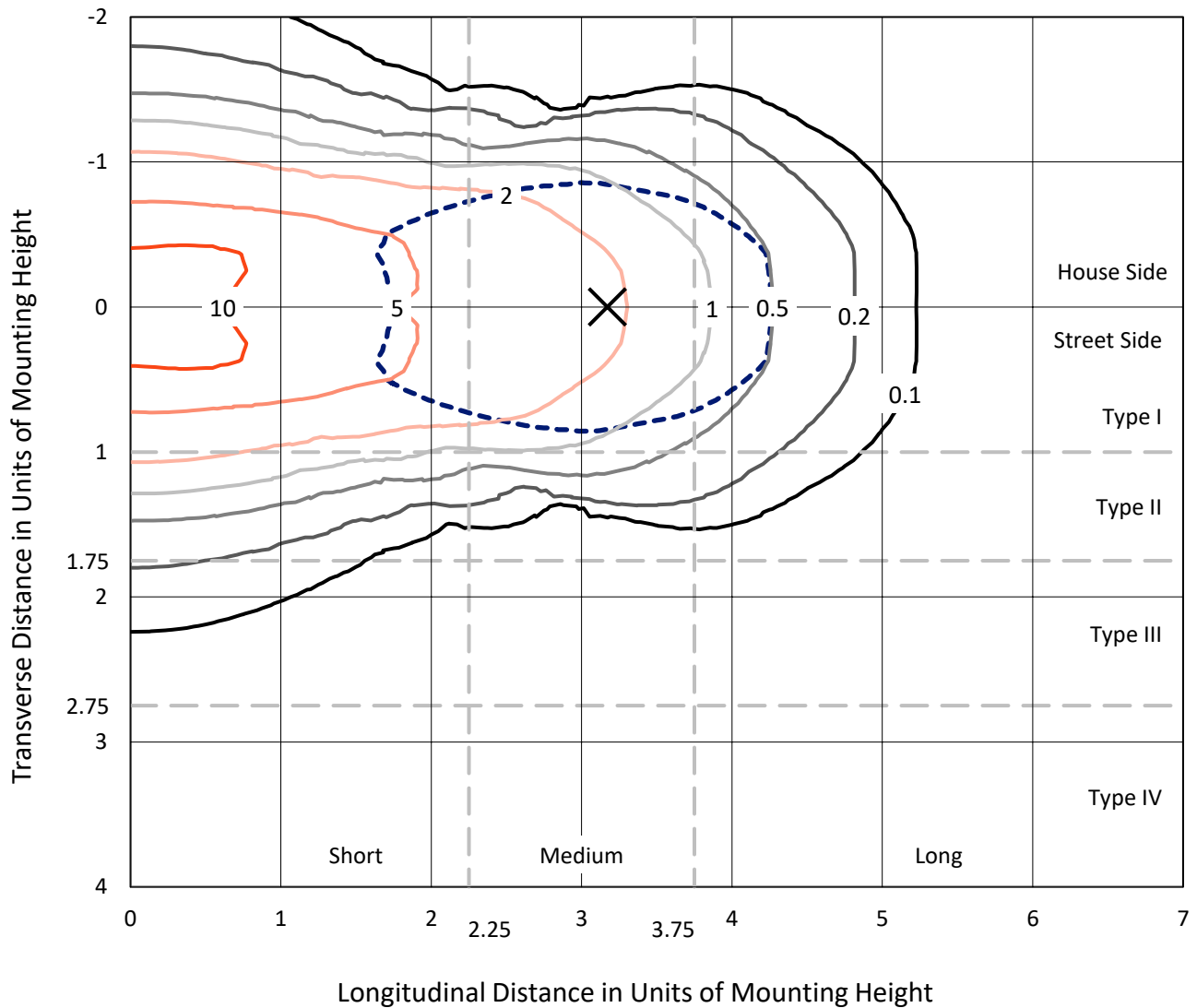
Input Watts (W): 364.9
Input Voltage (V): 120.0
Input Current (Ain): 3.094
Voltage Rise (V): NR
Power Factor: 0.998
Total Harmonic Distortion (THDi): 3.28
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

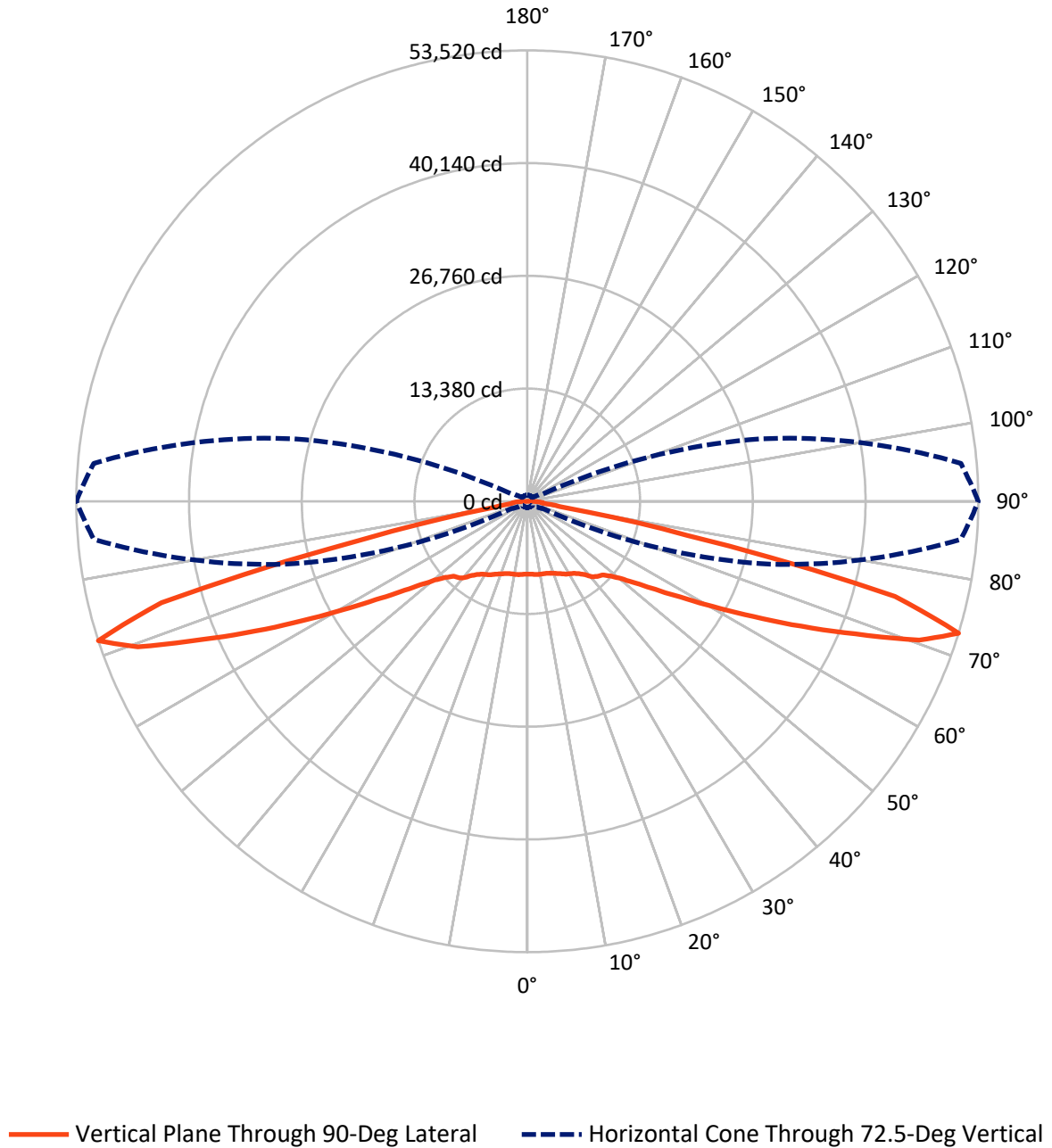
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.8 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	23147.0	0.0	23147.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	23147.0	0.0	23147.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	46294.0	0.0	46294.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	838.8	1.8
10°-20°	2564.6	5.5
20°-30°	4276.3	9.2
30°-40°	5881.2	12.7
40°-50°	7182.6	15.5
50°-60°	8307.4	17.9
60°-70°	9905.2	21.4
70°-80°	6913.2	14.9
80°-90°	424.6	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°	46294.0	100.0
0°-180°	46294.0	100.0

Coefficient of Utilization



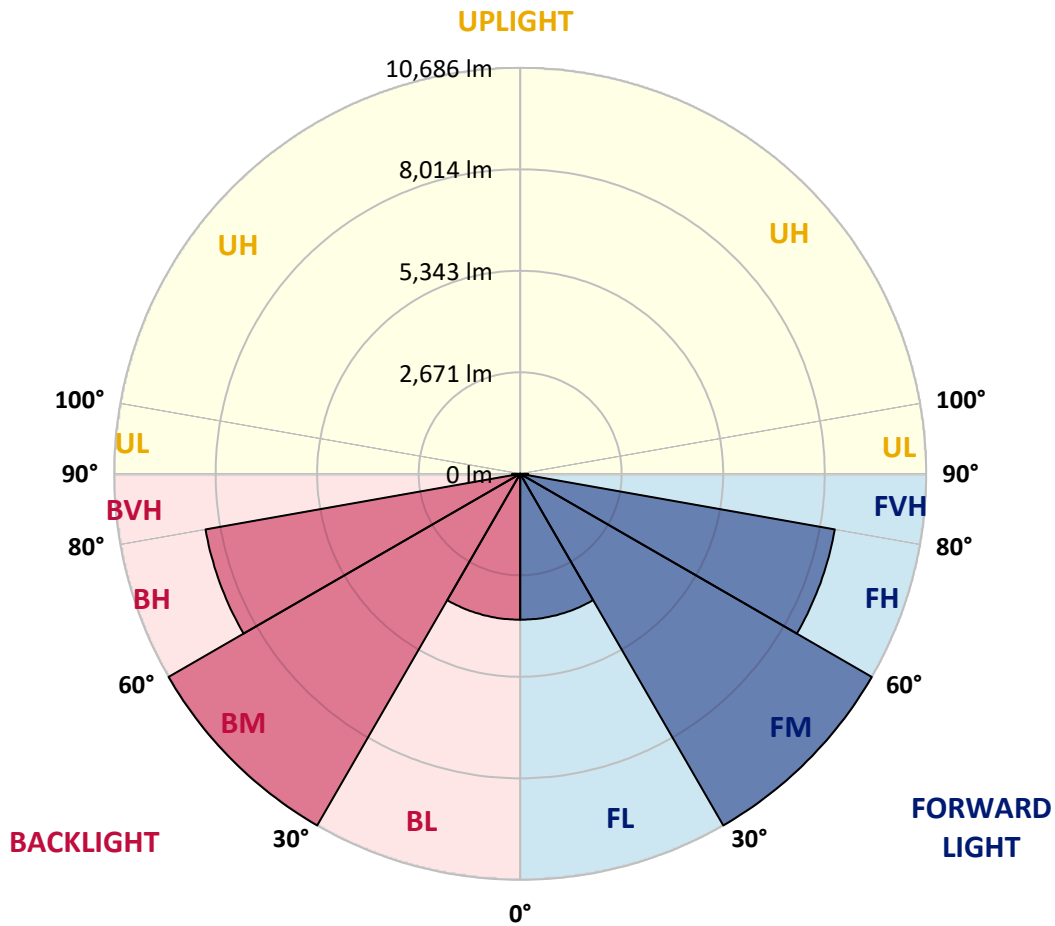
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3839.8	8.3			
FM (30°-60°)	10685.6	23.1			
FH (60°-80°)	8409.2	18.2			G4/12000
FVH (80°-90°)	212.3	0.5			G2/225
BL (0°-30°)	3839.8	8.3	B4/5000		
BM (30°-60°)	10685.6	23.1	B5		
BH (60°-80°)	8409.2	18.2	B5		G5
BVH (80°-90°)	212.3	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°	8650.5	8650.5	8650.5	8650.5	8650.5	8650.5	8650.5	8650.5	8650.5	8650.5	8650.5
2.5°	8657.9	8667.7	8667.7	8660.4	8677.6	8662.8	8662.8	8655.4	8662.8	8655.4	8655.4
5°	8702.2	8714.5	8719.4	8717.0	8739.1	8726.8	8726.8	8717.0	8719.4	8712.0	8712.0
7.5°	8785.8	8803.1	8812.9	8825.2	8857.2	8842.4	8832.6	8803.1	8790.8	8771.1	8771.1
10°	8812.9	8832.6	8864.6	8928.5	9002.3	9004.8	8975.3	8901.5	8844.9	8800.6	8793.2
12.5°	8729.3	8756.3	8822.7	8953.1	9118.0	9184.4	9137.7	9014.7	8903.9	8825.2	8812.9
15°	8623.5	8653.0	8753.9	8950.7	9194.3	9349.3	9344.3	9182.0	9004.8	8881.8	8862.1
17.5°	8458.6	8488.1	8633.3	8908.9	9253.3	9509.2	9578.1	9410.8	9162.3	8997.4	8970.4
20°	8160.9	8188.0	8389.7	8776.0	9273.0	9678.9	9858.5	9710.9	9400.9	9177.0	9135.2
22.5°	7774.6	7816.5	8052.7	8547.2	9226.2	9856.1	10178.4	10077.5	9678.9	9368.9	9312.4
25°	7361.3	7405.6	7681.2	8266.7	9105.7	9984.0	10557.3	10493.3	9993.9	9607.6	9528.9
27.5°	7004.6	7051.3	7351.5	7988.7	8918.7	10033.2	10931.2	10963.2	10375.2	9870.8	9787.2
30°	6724.1	6768.4	7088.2	7764.8	8677.6	9984.0	11258.5	11479.9	10763.9	10099.7	9979.1
32.5°	6416.5	6473.1	6810.2	7491.7	8392.2	9865.9	11543.9	12038.4	11214.2	10345.7	10193.1
35°	6027.8	6079.5	6433.8	7117.7	8018.2	9676.5	11782.5	12658.4	11858.8	10719.7	10549.9
37.5°	5555.4	5604.6	5956.5	6650.3	7646.7	9410.8	11964.6	13357.1	12626.4	11258.5	11032.1
40°	5080.6	5127.3	5457.0	6128.7	7201.4	9071.2	12028.6	14041.1	13507.2	11999.0	11757.9
42.5°	4645.1	4686.9	4989.6	5614.5	6701.9	8638.2	11944.9	14636.5	14297.0	12515.7	12205.7
45°	4244.1	4281.0	4549.2	5132.2	6182.8	8111.7	11694.0	15276.2	15236.8	12884.8	12466.5
47.5°	3786.4	3823.4	4101.4	4664.8	5663.7	7494.2	11268.3	15906.0	16543.3	13721.3	13239.0
50°	3228.0	3259.9	3545.3	4126.0	5124.9	6837.3	10677.8	16400.6	18191.7	14988.3	14383.1
52.5°	2566.1	2600.6	2878.6	3459.2	4485.2	6131.1	9900.4	16722.9	20096.0	16838.5	16093.0
55°	1909.2	1933.8	2174.9	2696.5	3693.0	5326.6	8926.1	16813.9	22256.2	19367.7	18435.3
57.5°	1385.2	1399.9	1554.9	1943.7	2799.9	4320.3	7742.7	16577.7	24827.2	22610.4	21436.9
60°	1121.9	1126.8	1173.6	1345.8	1946.1	3183.7	6313.2	15765.8	27617.2	26790.5	25311.9
62.5°	1018.6	1018.6	1030.9	1077.6	1316.3	2101.1	4583.6	14082.9	30609.0	32072.9	30092.3
65°	947.2	947.2	952.1	974.3	1038.3	1338.4	2893.3	11342.1	33130.8	38260.6	35756.0
67.5°	883.3	885.7	883.3	890.6	927.5	989.1	1677.9	7833.7	34488.9	44672.2	41968.3
70°	816.8	821.8	809.4	809.4	839.0	841.4	1050.6	4295.7	33362.1	50045.6	49334.6
72.5°	738.1	745.5	725.8	720.9	743.0	733.2	789.8	2061.8	28643.2	51649.7	53519.6
75°	669.2	679.1	634.8	622.5	622.5	615.1	642.1	1057.9	18590.3	42133.2	45065.9
77.5°	607.7	627.4	556.0	516.7	506.8	484.7	524.1	647.1	8131.4	19781.1	19370.2
80°	501.9	529.0	457.6	410.9	393.7	369.0	413.3	452.7	2418.5	4593.4	4399.1
82.5°	374.0	386.3	324.8	292.8	278.0	260.8	310.0	314.9	787.3	1626.3	1837.9
85°	238.7	243.6	199.3	172.2	164.8	157.5	196.8	172.2	300.2	1195.7	1737.0
87.5°	83.7	96.0	76.3	68.9	73.8	61.5	91.0	51.7	83.7	843.9	1045.6
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)