

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: P968709

Luminaire Tested: **NAV-SB5C-727-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968709
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB5C-727-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37036.3 lumens
Efficiency: N/A
Efficacy: 148.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B5 - U0 - G5

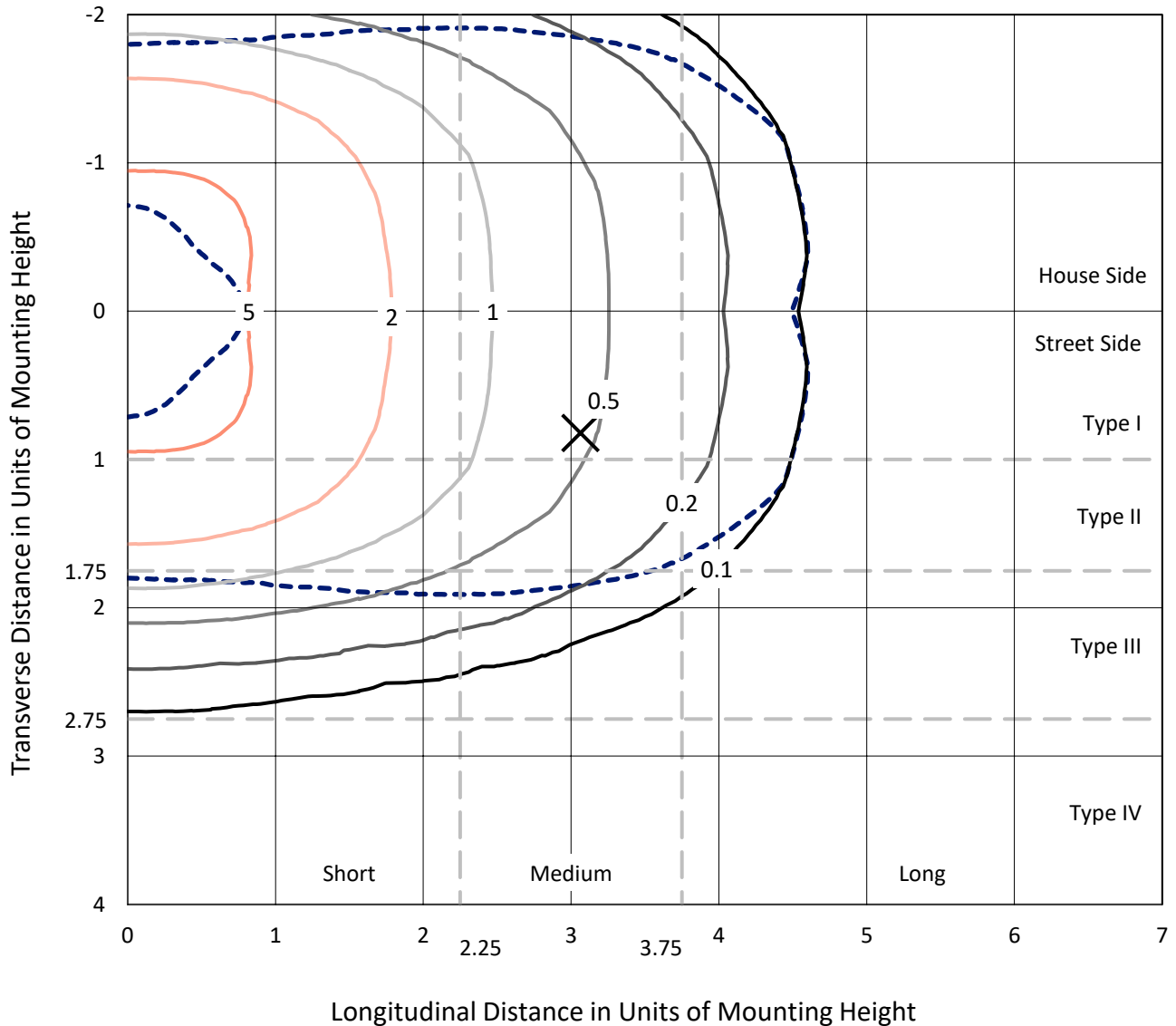
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

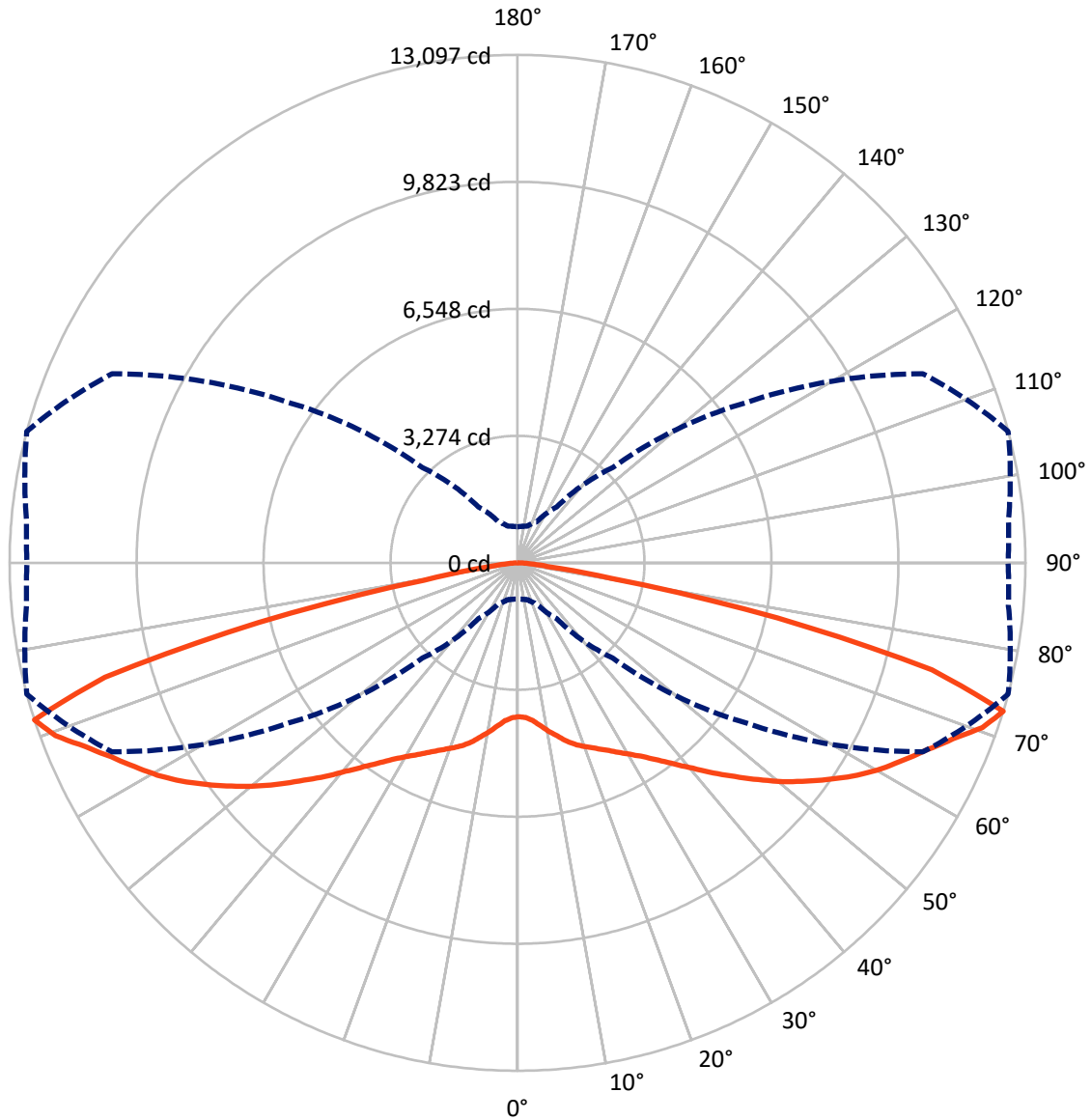
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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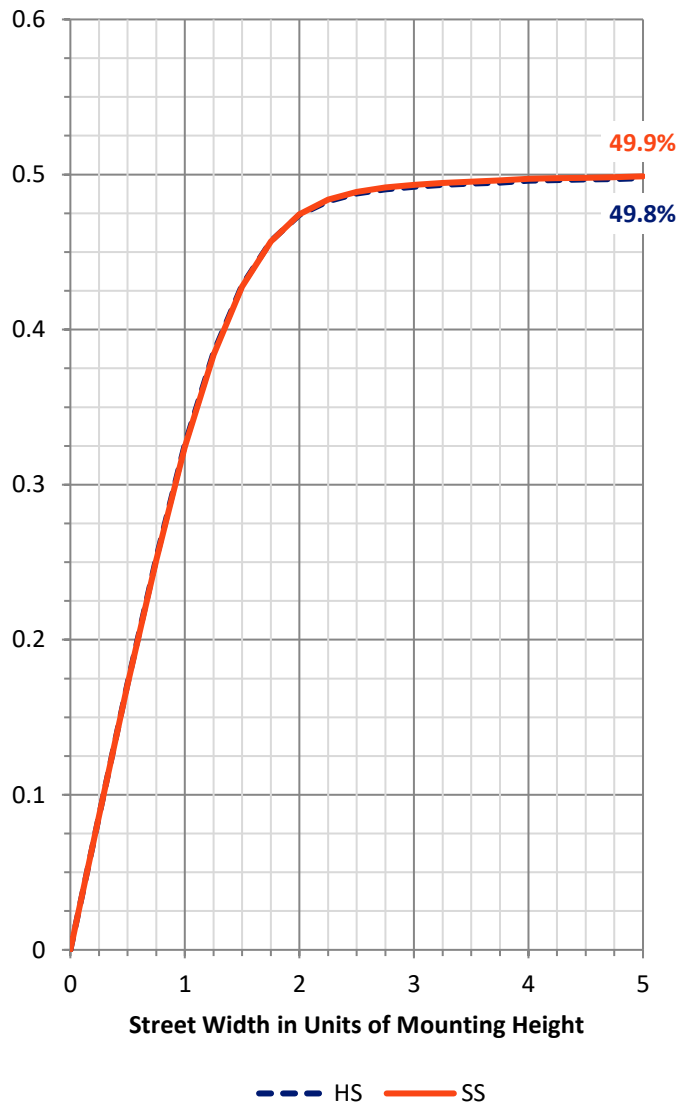
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18518.2	0.0	18518.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18518.2	0.0	18518.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	37036.3	0.0	37036.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	388.6	1.0
10°-20°	1281.8	3.5
20°-30°	2476.7	6.7
30°-40°	4182.1	11.3
40°-50°	6632.4	17.9
50°-60°	8880.0	24.0
60°-70°	8450.9	22.8
70°-80°	4409.8	11.9
80°-90°	333.8	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°	37036.3	100.0
0°-180°	37036.3	100.0

Coefficient of Utilization

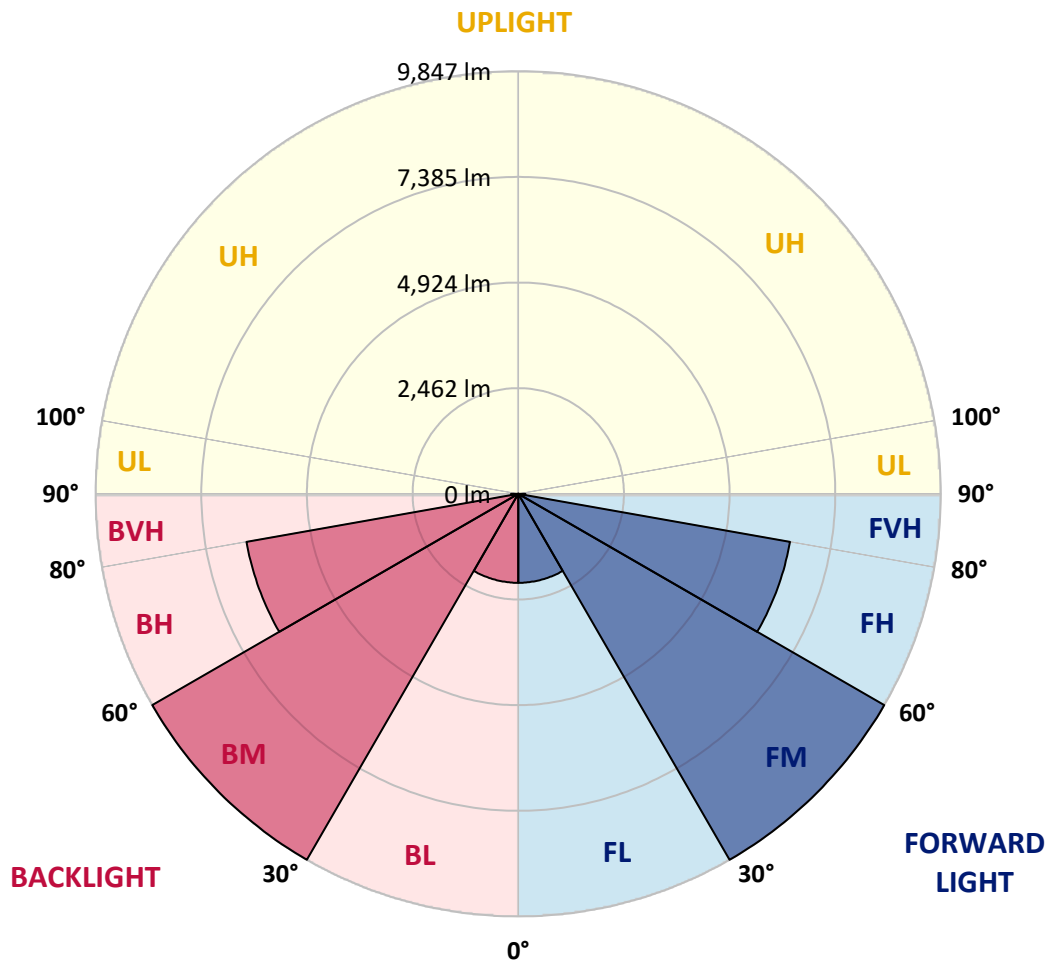


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2073.6	5.6			
FM (30°-60°)	9847.3	26.6			
FH (60°-80°)	6430.4	17.4			G3/7500
FVH (80°-90°)	166.9	0.5			G2/225
BL (0°-30°)	2073.6	5.6	B3/2500		
BM (30°-60°)	9847.3	26.6	B5		
BH (60°-80°)	6430.4	17.4	B5		G5
BVH (80°-90°)	166.9	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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3967.3	3967.3	3967.3	3967.3	3967.3	3967.3	3967.3	3967.3	3967.3	3967.3	3967.3
2.5°	3967.3	3963.5	3967.3	3971.1	3969.1	3969.1	3978.6	3984.3	3995.7	3993.7	3991.9
5°	3940.8	3938.9	3954.0	3971.1	3984.3	4006.9	4035.3	4056.1	4082.6	4088.3	4088.3
7.5°	3927.5	3921.9	3948.3	3978.6	4020.2	4076.9	4131.8	4188.5	4233.9	4249.0	4252.8
10°	3937.0	3938.9	3974.8	4031.5	4097.7	4177.2	4254.7	4351.1	4415.4	4430.6	4445.6
12.5°	3980.5	3976.7	4037.3	4128.0	4218.8	4318.9	4409.8	4515.6	4585.6	4621.5	4636.7
15°	4059.9	4052.3	4137.4	4271.7	4404.1	4521.3	4595.1	4695.3	4776.6	4822.0	4839.0
17.5°	4154.4	4158.2	4269.8	4443.8	4617.7	4750.2	4820.1	4871.1	4933.5	4973.3	4992.2
20°	4320.9	4328.5	4453.2	4659.3	4857.9	5009.2	5065.9	5047.0	5064.0	5094.2	5117.0
22.5°	4544.0	4547.8	4687.7	4910.9	5118.8	5285.3	5323.0	5245.5	5198.3	5219.1	5234.2
25°	4803.0	4827.6	4967.6	5196.3	5410.1	5568.9	5585.9	5468.7	5351.4	5357.2	5366.6
27.5°	5118.8	5141.5	5283.4	5510.3	5727.7	5865.8	5863.9	5707.0	5534.9	5491.3	5504.7
30°	5461.1	5485.7	5631.3	5865.8	6068.1	6189.2	6162.7	5975.4	5729.6	5648.4	5657.8
32.5°	5867.7	5882.8	6030.3	6264.8	6452.0	6548.4	6493.6	6262.9	5956.6	5863.9	5886.6
35°	6359.3	6382.1	6491.7	6712.9	6877.4	6956.9	6864.2	6591.9	6247.8	6143.7	6158.9
37.5°	6920.9	6905.8	7030.6	7227.3	7363.4	7412.6	7285.9	6962.5	6580.6	6457.7	6480.4
40°	7507.1	7499.6	7635.7	7824.8	7898.5	7928.8	7741.6	7388.0	6964.5	6832.0	6875.6
42.5°	8038.5	8032.8	8216.3	8426.1	8515.1	8481.0	8244.6	7839.9	7408.8	7257.5	7295.3
45°	8463.9	8456.5	8681.4	8976.4	9150.4	9093.7	8775.9	8339.2	7858.9	7702.0	7737.8
47.5°	8791.1	8794.9	9036.9	9401.9	9706.3	9727.1	9318.7	8847.8	8354.3	8176.5	8229.5
50°	9027.5	9038.9	9297.9	9702.5	10118.6	10302.0	9872.8	9369.7	8866.8	8666.3	8726.8
52.5°	9086.1	9106.9	9418.9	9893.5	10383.4	10733.2	10436.2	9870.9	9352.7	9161.8	9211.0
55°	8774.1	8815.7	9211.0	9878.4	10545.9	11016.8	10931.7	10379.6	9842.5	9645.9	9700.7
57.5°	8057.4	8116.1	8577.4	9449.2	10510.0	11211.6	11315.6	10867.4	10332.2	10143.2	10186.7
60°	7053.3	7123.2	7565.7	8516.9	10003.2	11283.4	11586.0	11342.0	10782.3	10598.9	10638.6
62.5°	5538.7	5629.4	6158.9	7274.5	8933.0	10948.7	11816.7	11771.3	11187.0	10958.2	10984.6
65°	3553.2	3649.6	4207.4	5525.4	7505.3	9923.8	11888.6	12189.2	11614.4	11294.8	11334.4
67.5°	2142.5	2185.9	2462.0	3348.9	5485.7	8378.9	11279.6	12652.5	12113.6	11716.5	11746.7
70°	1370.9	1395.5	1560.0	1966.6	3101.2	6113.5	9770.6	12739.4	12718.6	12149.4	12145.7
72.5°	930.4	937.9	981.4	1164.8	1754.8	3473.7	7206.5	11533.0	13096.8	12707.3	12646.8
75°	680.7	722.3	792.3	824.5	996.5	1735.9	4129.8	8102.8	11037.6	11207.8	10795.5
77.5°	506.8	508.7	605.2	642.9	711.0	924.7	1747.2	4523.2	6852.8	7195.1	6417.9
80°	429.3	406.5	404.7	518.1	535.2	576.8	780.9	1561.9	2454.5	1488.2	1125.1
82.5°	357.4	332.8	300.6	404.7	365.0	353.6	338.5	635.4	780.9	383.9	327.2
85°	249.6	238.3	226.9	264.8	208.0	177.7	162.7	296.8	329.0	162.7	143.7
87.5°	107.8	111.5	113.5	117.3	87.0	62.4	62.4	83.2	83.2	64.3	47.3
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)