

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: P968178

Luminaire Tested: **NAV-SB5B-727-U-5NQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P968178  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB5B-727-U-5NQ  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28338.2 lumens  
Efficiency: N/A  
Efficacy: 155.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

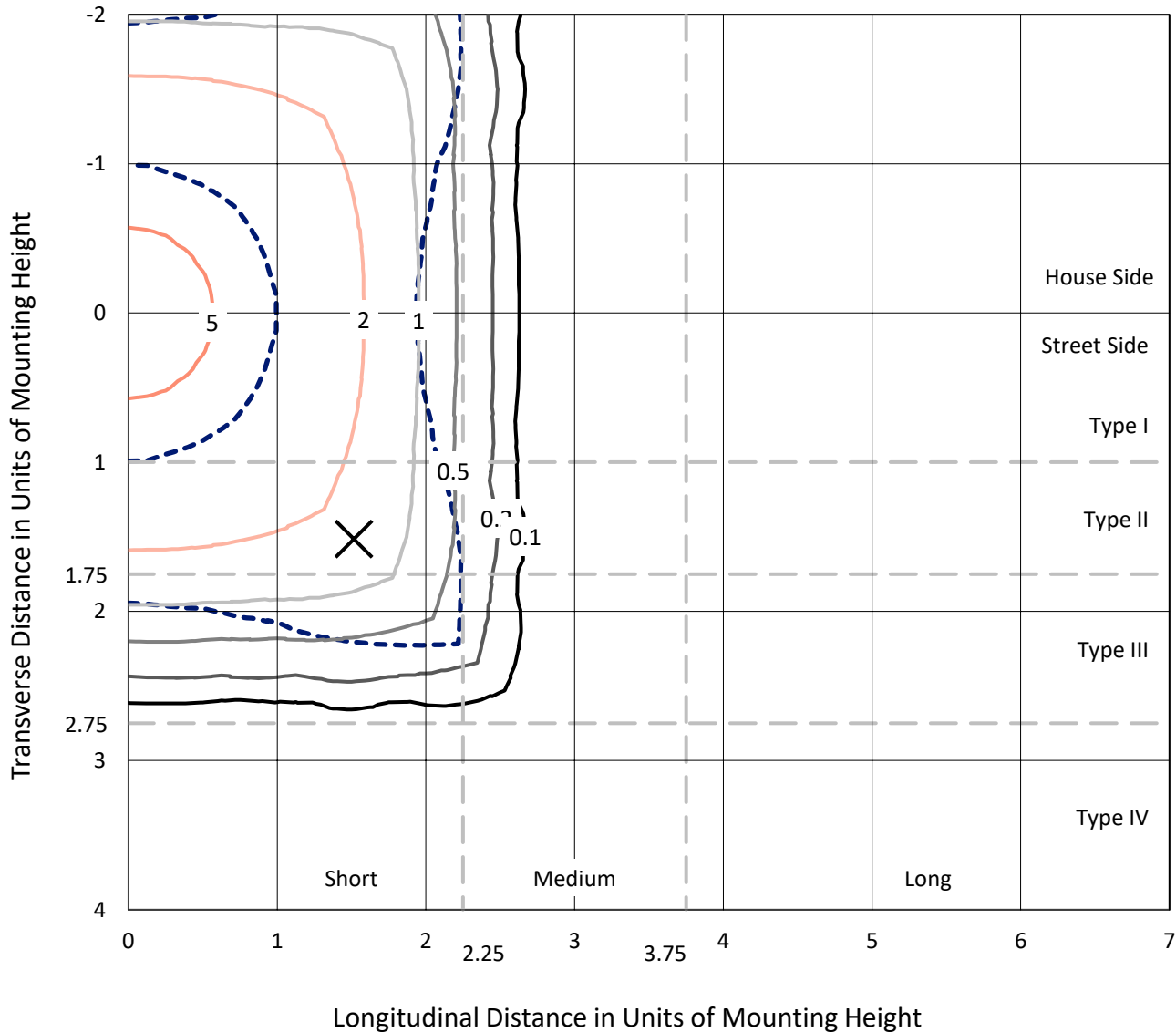
Input Watts (W): 182.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

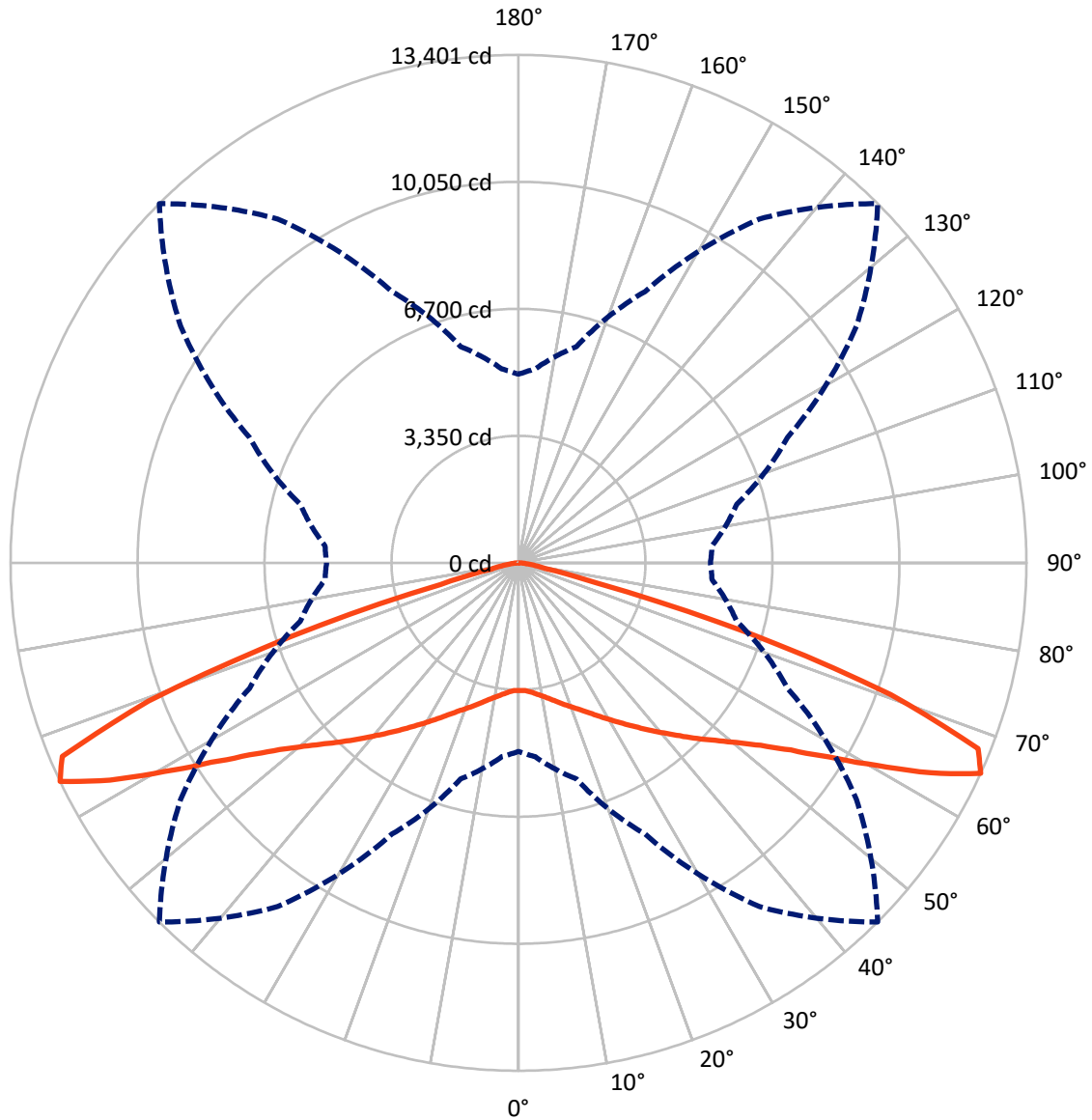
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc  
 Type V - Short - N/A

REPORT NUMBER: P968178  
CATALOG NUMBER: NAV-SB5B-727-U-5N9

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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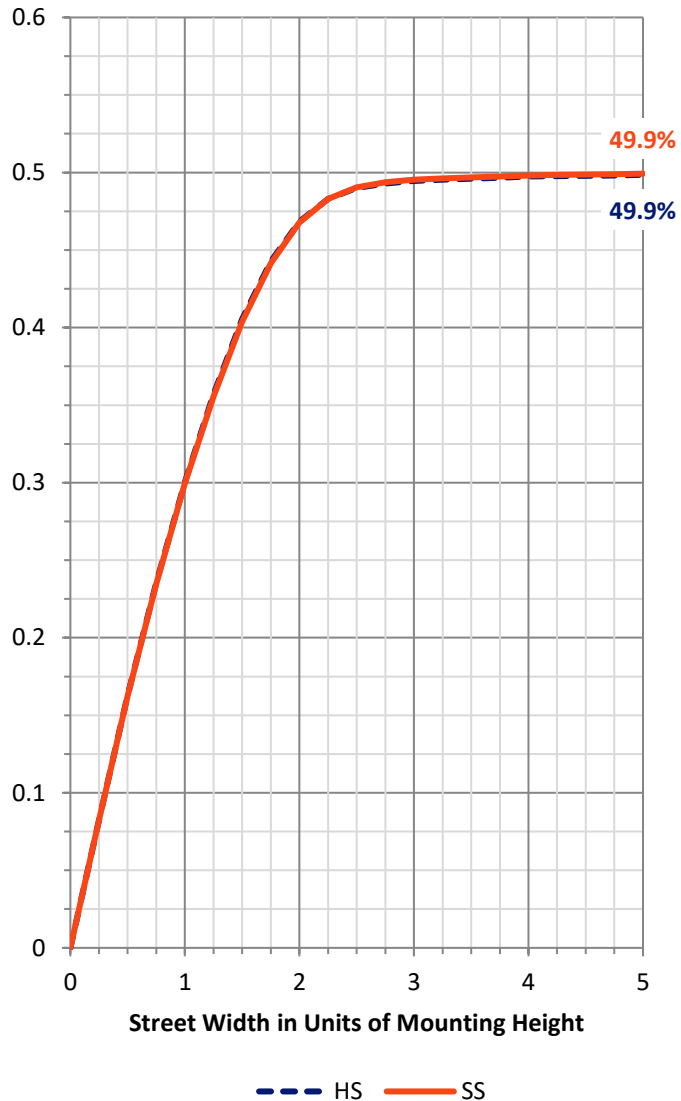
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	14169.1	0.0	14169.1
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	14169.1	0.0	14169.1
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	28338.2	0.0	28338.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	332.8	1.2
10°-20°	1086.1	3.8
20°-30°	2050.6	7.2
30°-40°	3357.8	11.8
40°-50°	5206.3	18.4
50°-60°	7690.8	27.1
60°-70°	7321.0	25.8
70°-80°	1181.3	4.2
80°-90°	111.4	0.4
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°	28338.2	100.0
0°-180°	28338.2	100.0

**Coefficient of Utilization**



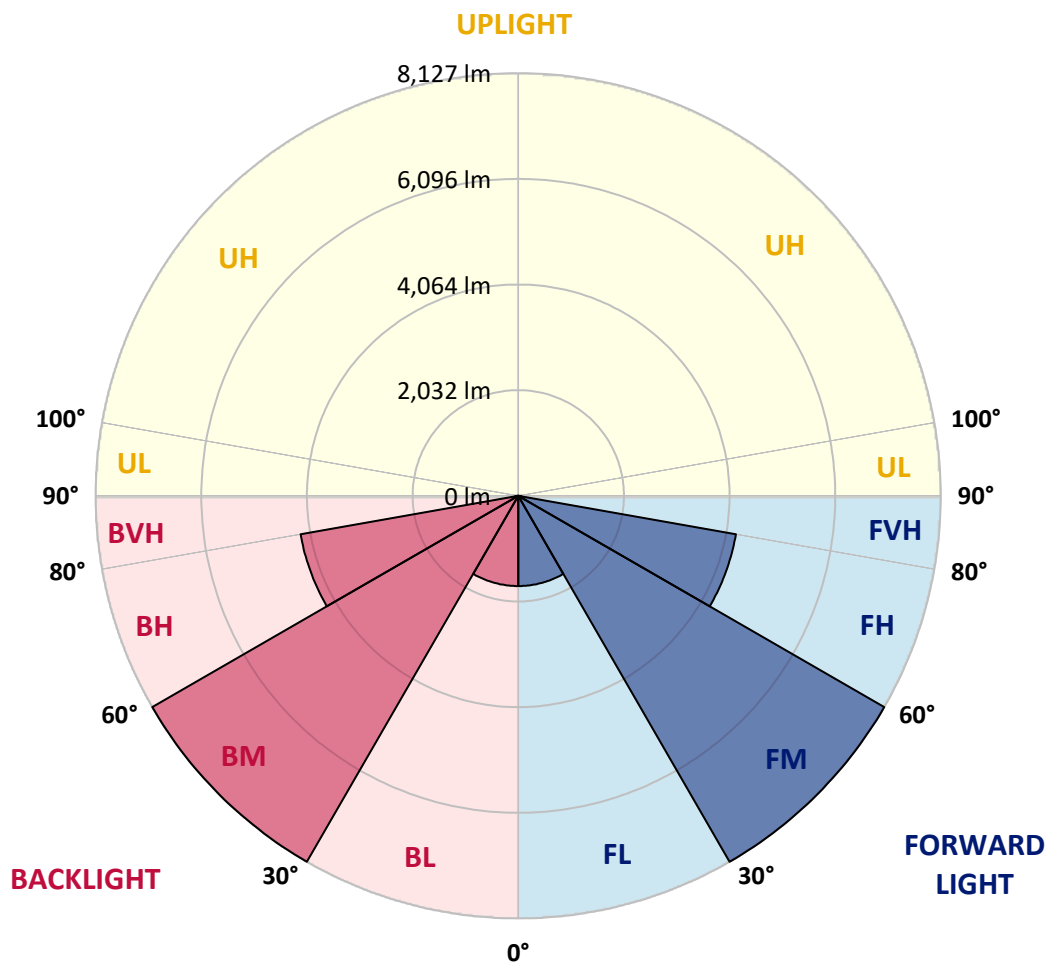
REPORT NUMBER: P968178  
 CATALOG NUMBER: NAV-SB5B-727-U-5NQ

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1734.8	6.1			
FM (30°-60°)	8127.5	28.7			
FH (60°-80°)	4251.1	15.0			G2/5000
FVH (80°-90°)	55.7	0.2			G1/100
BL (0°-30°)	1734.8	6.1	B3/2500		
BM (30°-60°)	8127.5	28.7	B4/8500		
BH (60°-80°)	4251.1	15.0	B4/5000		G2/5000
BVH (80°-90°)	55.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3372.6	3372.6	3372.6	3372.6	3372.6	3372.6	3372.6	3372.6	3372.6	3372.6	3372.6
2.5°	3395.3	3383.9	3392.4	3385.4	3379.6	3374.0	3376.8	3386.7	3391.0	3392.4	3392.4
5°	3440.8	3430.8	3435.1	3435.1	3425.1	3422.3	3423.7	3430.8	3439.4	3439.4	3439.4
7.5°	3514.7	3504.8	3514.7	3509.0	3500.5	3497.6	3496.2	3501.9	3514.7	3514.7	3510.4
10°	3604.3	3592.9	3598.6	3595.7	3585.8	3581.6	3580.1	3588.6	3600.0	3598.6	3595.7
12.5°	3702.4	3689.6	3696.7	3688.2	3685.3	3681.1	3681.1	3679.6	3686.7	3681.1	3684.0
15°	3811.9	3803.4	3806.1	3800.5	3804.8	3801.9	3790.6	3784.8	3787.7	3779.2	3780.6
17.5°	3941.2	3921.3	3931.3	3928.4	3928.4	3934.2	3915.7	3908.5	3914.3	3905.7	3912.8
20°	4090.6	4070.6	4074.9	4069.2	4062.1	4067.8	4045.1	4050.7	4055.0	4049.3	4062.1
22.5°	4254.1	4228.4	4227.0	4229.9	4214.2	4215.6	4200.0	4214.2	4222.8	4207.1	4222.8
25°	4421.8	4394.8	4413.2	4406.2	4386.3	4390.6	4379.2	4393.4	4400.5	4380.5	4403.3
27.5°	4599.6	4581.0	4598.2	4602.4	4578.3	4595.3	4578.3	4591.0	4598.2	4568.2	4591.0
30°	4807.1	4788.6	4804.3	4815.7	4787.3	4814.2	4800.0	4808.6	4810.0	4774.4	4795.8
32.5°	5033.2	5004.8	5044.5	5050.3	5019.0	5051.7	5033.2	5044.5	5051.7	5003.3	5036.0
35°	5309.0	5273.5	5318.9	5311.9	5284.9	5311.9	5294.8	5311.9	5329.0	5270.7	5306.2
37.5°	5606.1	5569.2	5617.5	5604.8	5579.2	5597.6	5587.7	5599.1	5626.1	5563.5	5601.9
40°	5933.2	5887.7	5953.1	5930.3	5906.2	5903.4	5909.0	5916.1	5951.7	5882.1	5904.7
42.5°	6282.9	6234.7	6332.8	6297.2	6263.1	6240.3	6258.8	6273.0	6307.1	6228.9	6270.1
45°	6682.5	6627.0	6755.0	6712.3	6658.3	6611.4	6641.3	6662.6	6712.3	6618.5	6666.8
47.5°	7123.2	7060.7	7197.1	7184.4	7096.3	6993.9	7062.1	7123.2	7160.2	7046.5	7084.9
50°	7554.0	7505.8	7684.8	7700.5	7592.5	7448.9	7544.1	7636.6	7646.5	7497.2	7515.7
52.5°	7957.9	7909.5	8169.7	8267.9	8171.1	8000.5	8101.5	8195.3	8119.9	7926.5	7932.3
55°	8280.6	8240.8	8572.1	8825.1	8857.8	8717.1	8776.8	8774.0	8526.6	8229.4	8239.4
57.5°	8358.8	8353.1	8771.1	9307.1	9648.4	9665.4	9547.5	9246.0	8712.8	8313.3	8287.7
60°	8003.3	8038.9	8613.3	9558.8	10468.7	10847.0	10336.5	9476.3	8500.9	7946.5	7881.1
62.5°	6939.9	7033.7	7726.1	9251.6	11131.3	12206.2	10969.2	9126.6	7630.8	6907.2	6864.5
65°	4973.5	5137.0	5902.0	7895.3	11071.6	13400.5	10878.2	7831.3	5958.8	5124.2	5063.1
67.5°	2256.4	2422.8	3072.5	5405.7	9624.2	13076.3	9601.5	5462.5	3226.1	2431.3	2395.7
70°	817.5	845.9	1054.9	2164.0	6150.7	10419.0	6413.7	2179.7	1121.8	901.4	890.0
72.5°	494.8	499.1	543.1	774.9	2137.0	6325.6	2227.9	800.5	554.5	491.9	500.5
75°	314.3	311.4	386.7	473.4	757.8	2134.2	794.8	473.4	385.3	351.2	354.0
77.5°	226.1	233.2	277.3	354.0	477.8	723.6	469.2	338.4	277.3	227.4	231.8
80°	169.2	173.4	201.9	275.8	335.6	450.7	298.6	250.2	209.0	142.2	146.5
82.5°	122.3	122.3	132.2	200.5	204.7	243.1	162.1	176.3	138.0	101.0	101.0
85°	72.5	71.1	82.5	119.4	106.6	89.6	73.9	108.0	86.7	62.5	61.1
87.5°	25.6	27.1	25.6	34.1	28.4	24.2	22.8	29.8	24.2	21.3	19.9
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)