

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: P966085

Luminaire Tested: **NAV-SB4B-727-U-T1**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P966085  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB4B-727-U-T1  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21225.7 lumens  
Efficiency: N/A  
Efficacy: 144.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G4

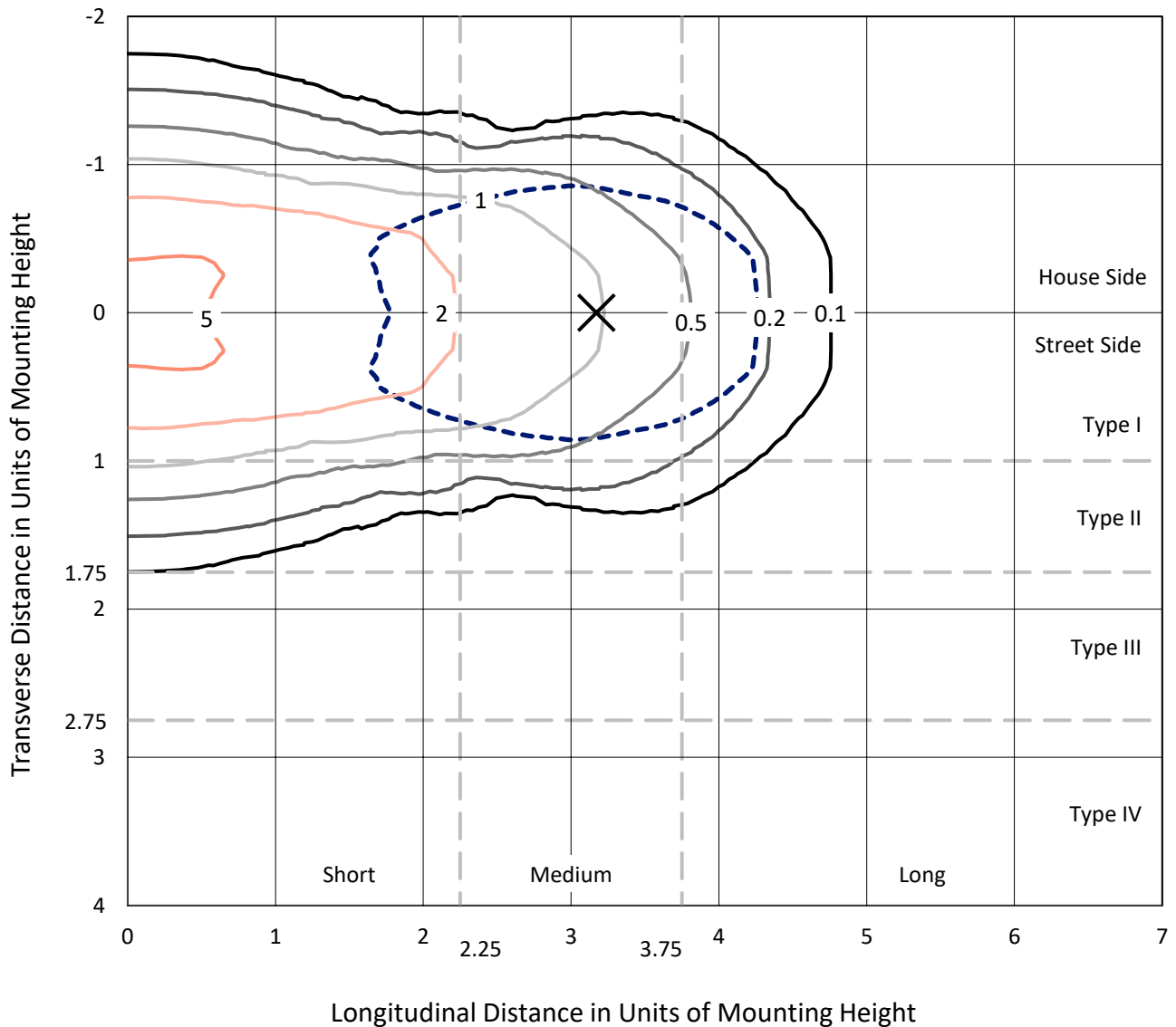
Input Watts (W): 147  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

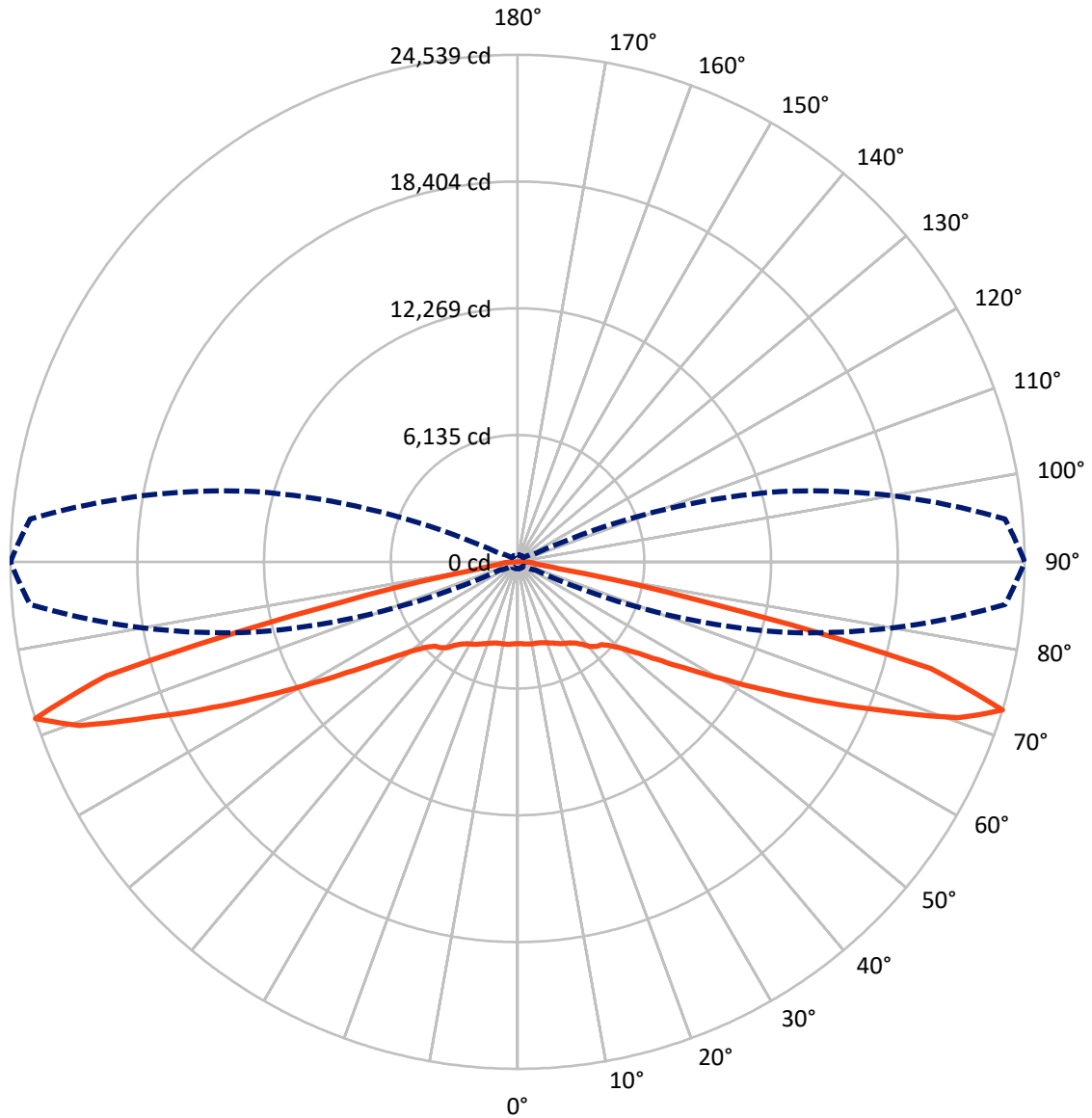
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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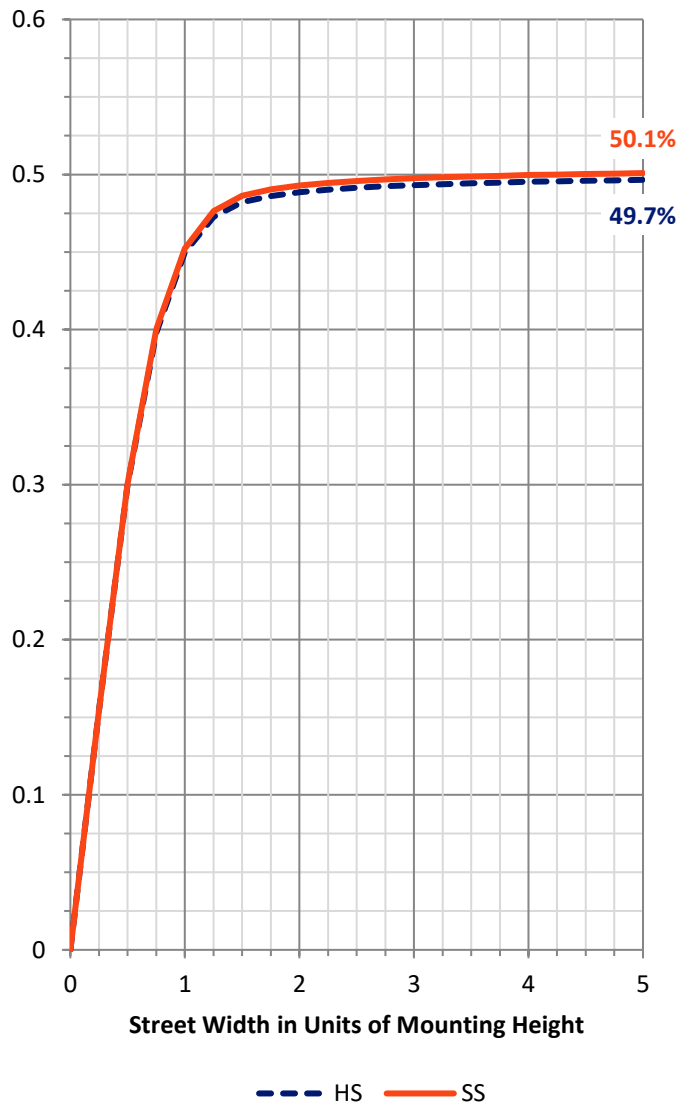
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10612.8	0.0	10612.8
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	10612.8	0.0	10612.8
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	21225.7	0.0	21225.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	384.6	1.8
10°-20°	1175.9	5.5
20°-30°	1960.7	9.2
30°-40°	2696.5	12.7
40°-50°	3293.2	15.5
50°-60°	3808.9	17.9
60°-70°	4541.5	21.4
70°-80°	3169.7	14.9
80°-90°	194.7	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°	21225.7	100.0
0°-180°	21225.7	100.0

**Coefficient of Utilization**

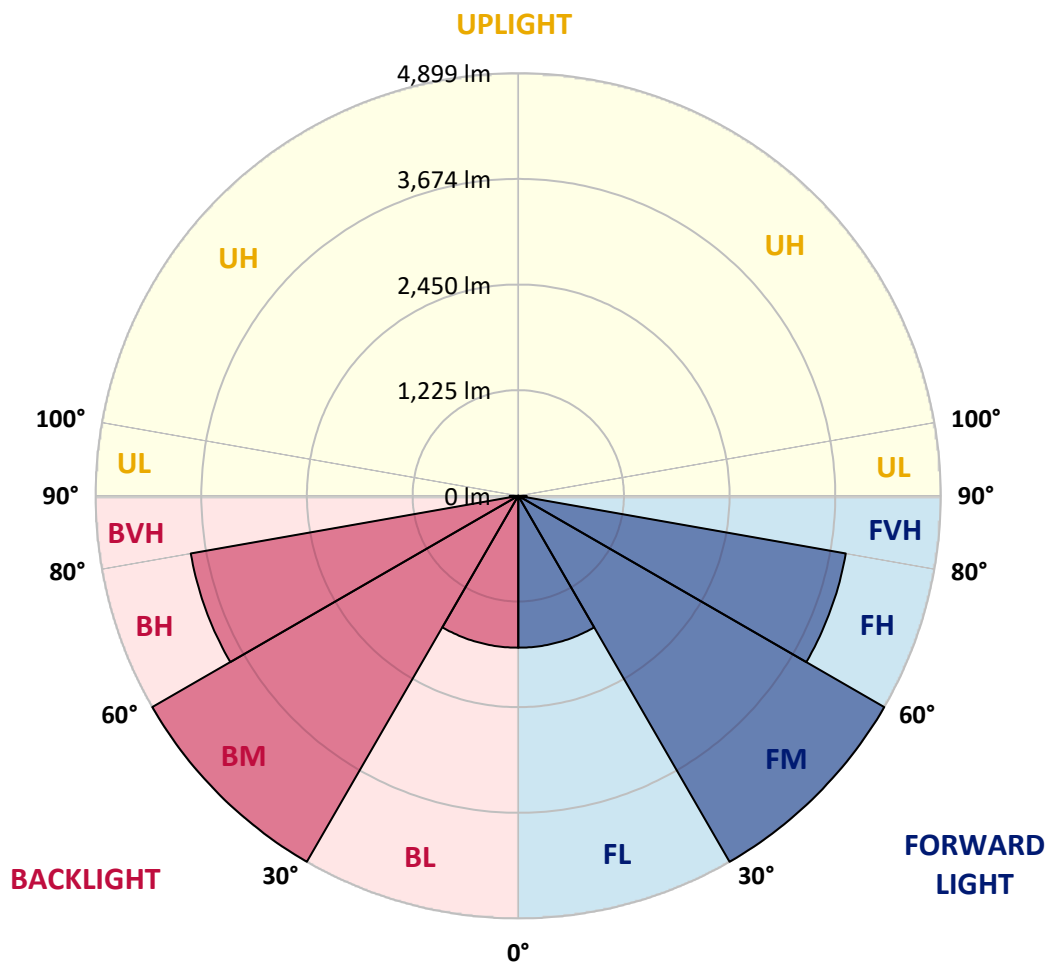


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1760.6	8.3			
FM (30°-60°)	4899.3	23.1			
FH (60°-80°)	3855.6	18.2			G2/5000
FVH (80°-90°)	97.3	0.5			G1/100
BL (0°-30°)	1760.6	8.3	B3/2500		
BM (30°-60°)	4899.3	23.1	B3/5000		
BH (60°-80°)	3855.6	18.2	B4/5000		G4/5000
BVH (80°-90°)	97.3	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°	3966.2	3966.2	3966.2	3966.2	3966.2	3966.2	3966.2	3966.2	3966.2	3966.2	3966.2
2.5°	3969.6	3974.1	3974.1	3970.7	3978.6	3971.9	3971.9	3968.5	3971.9	3968.5	3968.5
5°	3989.9	3995.6	3997.8	3996.7	4006.8	4001.2	4001.2	3996.7	3997.8	3994.4	3994.4
7.5°	4028.2	4036.1	4040.7	4046.3	4061.0	4054.3	4049.7	4036.1	4030.5	4021.5	4021.5
10°	4040.7	4049.7	4064.4	4093.7	4127.6	4128.7	4115.2	4081.3	4055.4	4035.0	4031.6
12.5°	4002.3	4014.7	4045.2	4105.0	4180.6	4211.0	4189.6	4133.2	4082.5	4046.3	4040.7
15°	3953.8	3967.4	4013.6	4103.9	4215.5	4286.7	4284.4	4209.9	4128.7	4072.3	4063.3
17.5°	3878.3	3891.8	3958.3	4084.7	4242.6	4359.9	4391.5	4314.8	4200.9	4125.3	4112.9
20°	3741.8	3754.2	3846.7	4023.7	4251.6	4437.7	4520.1	4452.4	4310.3	4207.6	4188.5
22.5°	3564.6	3583.8	3692.2	3918.9	4230.2	4519.0	4666.7	4620.5	4437.7	4295.7	4269.7
25°	3375.1	3395.4	3521.8	3790.2	4174.9	4577.6	4840.5	4811.1	4582.2	4405.0	4369.0
27.5°	3211.5	3233.1	3370.6	3662.8	4089.2	4600.2	5011.9	5026.6	4757.0	4525.8	4487.4
30°	3083.0	3103.3	3250.0	3560.1	3978.6	4577.6	5162.0	5263.5	4935.3	4630.6	4575.4
32.5°	2942.0	2967.9	3122.5	3435.0	3847.8	4523.5	5292.8	5519.6	5141.7	4743.5	4673.5
35°	2763.7	2787.4	2949.8	3263.5	3676.4	4436.6	5402.3	5803.9	5437.2	4915.0	4837.1
37.5°	2547.1	2569.7	2731.0	3049.2	3506.0	4314.8	5485.7	6124.2	5789.2	5162.0	5058.2
40°	2329.4	2350.8	2502.0	2810.0	3301.8	4159.1	5515.1	6437.8	6193.0	5501.5	5391.0
42.5°	2129.7	2148.9	2287.7	2574.2	3072.8	3960.6	5476.7	6710.8	6555.2	5738.5	5596.3
45°	1945.9	1962.8	2085.8	2353.1	2834.8	3719.2	5361.7	7004.1	6986.1	5907.6	5715.9
47.5°	1736.0	1753.0	1880.5	2138.8	2596.7	3436.1	5166.5	7292.9	7585.0	6291.1	6070.0
50°	1480.0	1494.7	1625.5	1891.7	2349.7	3134.9	4895.8	7519.6	8340.8	6872.1	6594.6
52.5°	1176.6	1192.4	1319.8	1586.1	2056.5	2811.2	4539.3	7667.4	9213.9	7720.4	7378.7
55°	875.4	886.6	997.2	1236.4	1693.2	2442.3	4092.6	7709.1	10204.4	8880.1	8452.6
57.5°	635.1	641.9	712.9	891.1	1283.7	1980.9	3550.0	7600.9	11383.2	10366.8	9828.7
60°	514.3	516.6	538.1	617.0	892.3	1459.7	2894.6	7228.6	12662.4	12283.4	11605.5
62.5°	467.0	467.0	472.6	494.0	603.5	963.4	2101.6	6457.0	14034.2	14705.4	13797.2
65°	434.3	434.3	436.5	446.7	476.0	613.7	1326.6	5200.3	15190.4	17542.4	16394.1
67.5°	405.0	406.1	405.0	408.4	425.3	453.5	769.4	3591.7	15813.1	20482.2	19242.4
70°	374.5	376.8	371.2	371.2	384.7	385.8	481.6	1969.5	15296.5	22945.8	22619.8
72.5°	338.5	341.8	332.8	330.6	340.7	336.2	362.1	945.4	13132.8	23681.3	24538.6
75°	306.8	311.3	291.0	285.4	285.4	282.0	294.4	485.0	8523.6	19318.0	20662.6
77.5°	278.6	287.6	254.9	236.9	232.4	222.2	240.3	296.6	3728.2	9069.6	8881.2
80°	230.1	242.5	209.8	188.4	180.5	169.2	189.5	207.6	1108.8	2106.1	2017.0
82.5°	171.5	177.1	148.9	134.3	127.5	119.6	142.2	144.4	361.0	745.7	842.7
85°	109.5	111.7	91.3	78.9	75.5	72.2	90.2	78.9	137.7	548.3	796.4
87.5°	38.3	44.0	35.0	31.6	33.8	28.2	41.7	23.7	38.3	386.9	479.4
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)