

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: P964504

Luminaire Tested: **NAV-SB3C-727-U-T1**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P964504  
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-SB3C-727-U-T1  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21133.4 lumens  
Efficiency: N/A  
Efficacy: 141.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G4

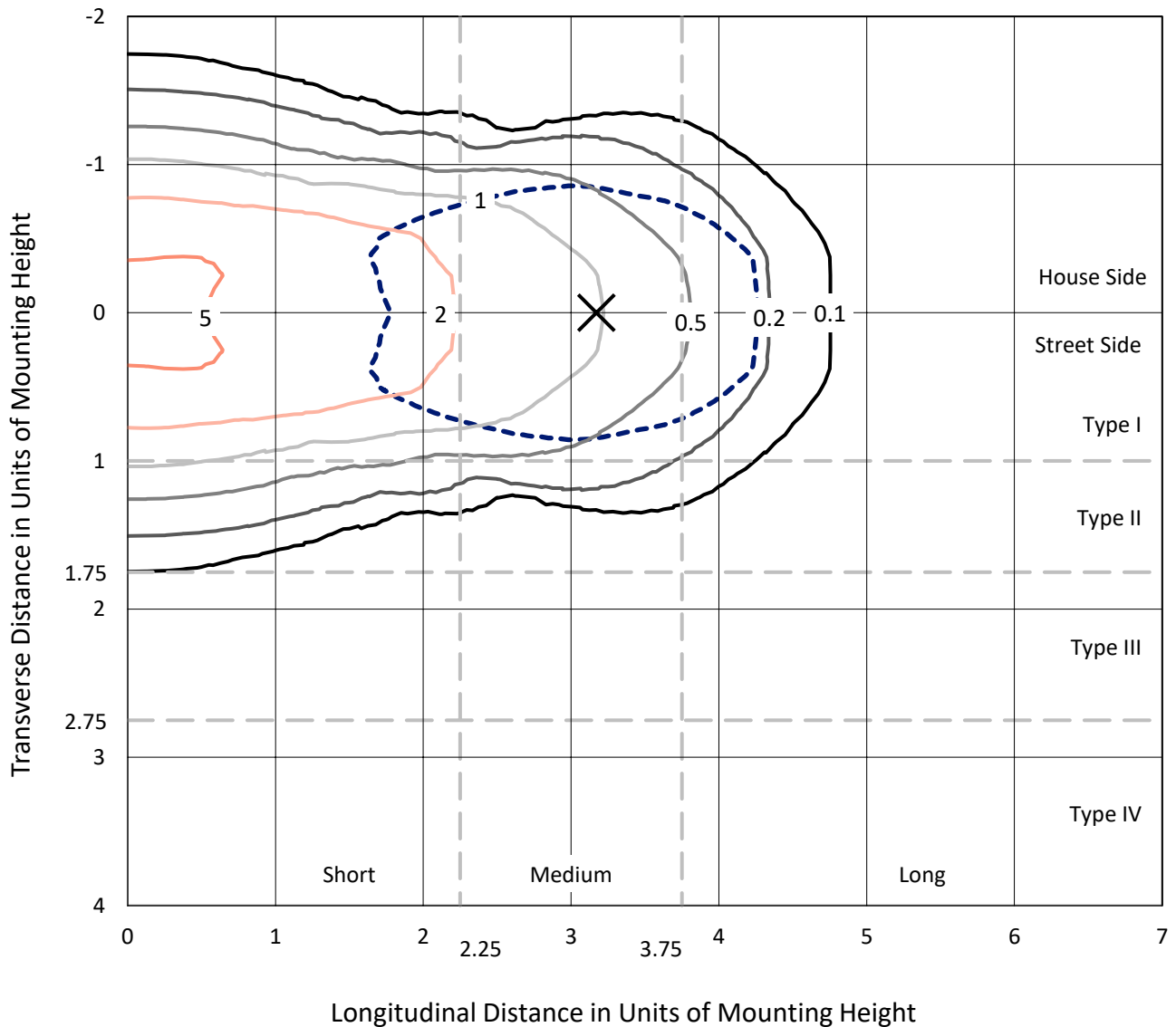
Input Watts (W): 149.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

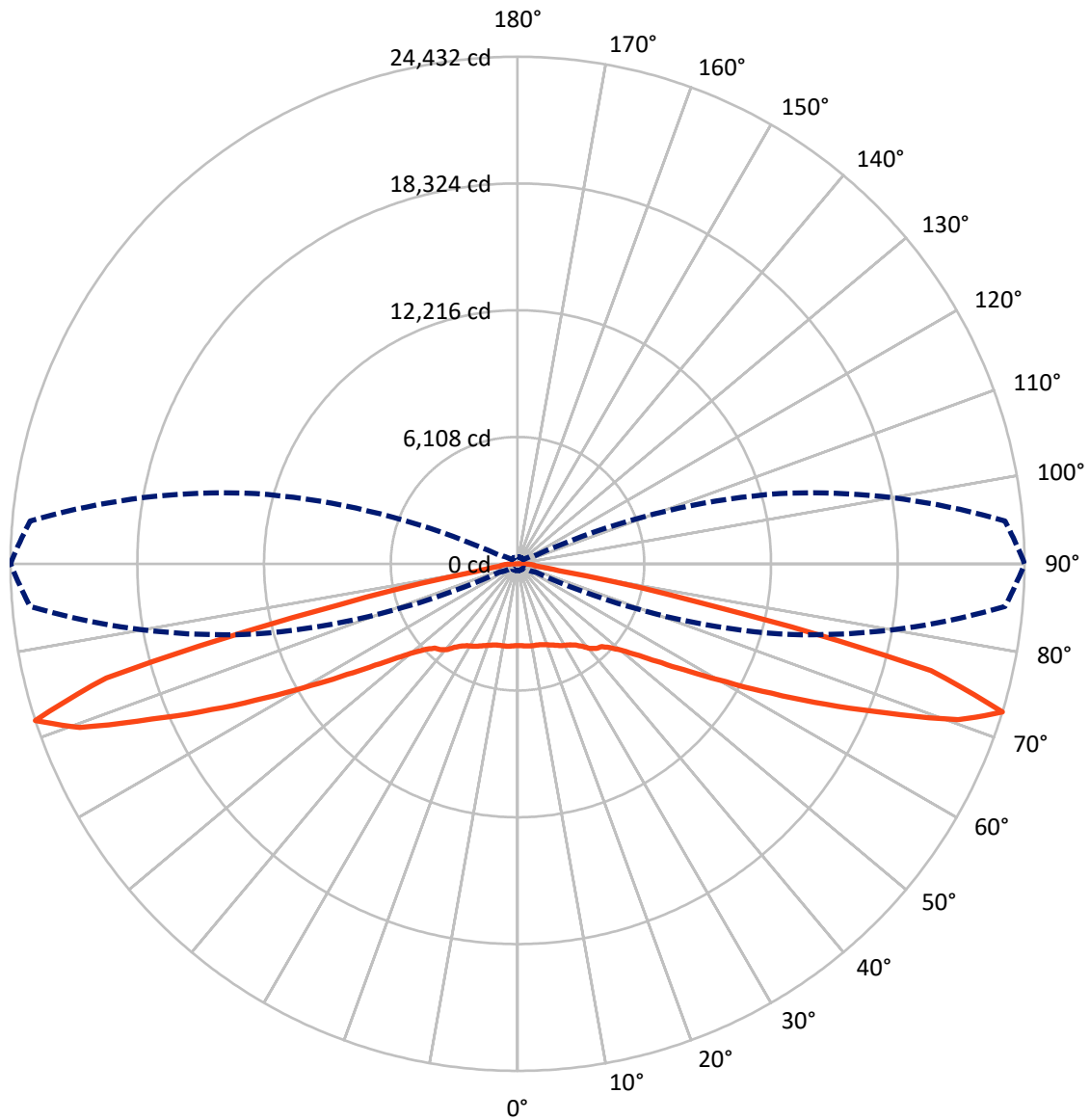
✕ Max cd  
 - - - 1/2 Max cd



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	10566.7	0.0	10566.7
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	10566.7	0.0	10566.7
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	21133.4	0.0	21133.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	382.9	1.8
10°-20°	1170.8	5.5
20°-30°	1952.1	9.2
30°-40°	2684.8	12.7
40°-50°	3278.9	15.5
50°-60°	3792.4	17.9
60°-70°	4521.8	21.4
70°-80°	3155.9	14.9
80°-90°	193.8	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°	21133.4	100.0
0°-180°	21133.4	100.0

**Coefficient of Utilization**

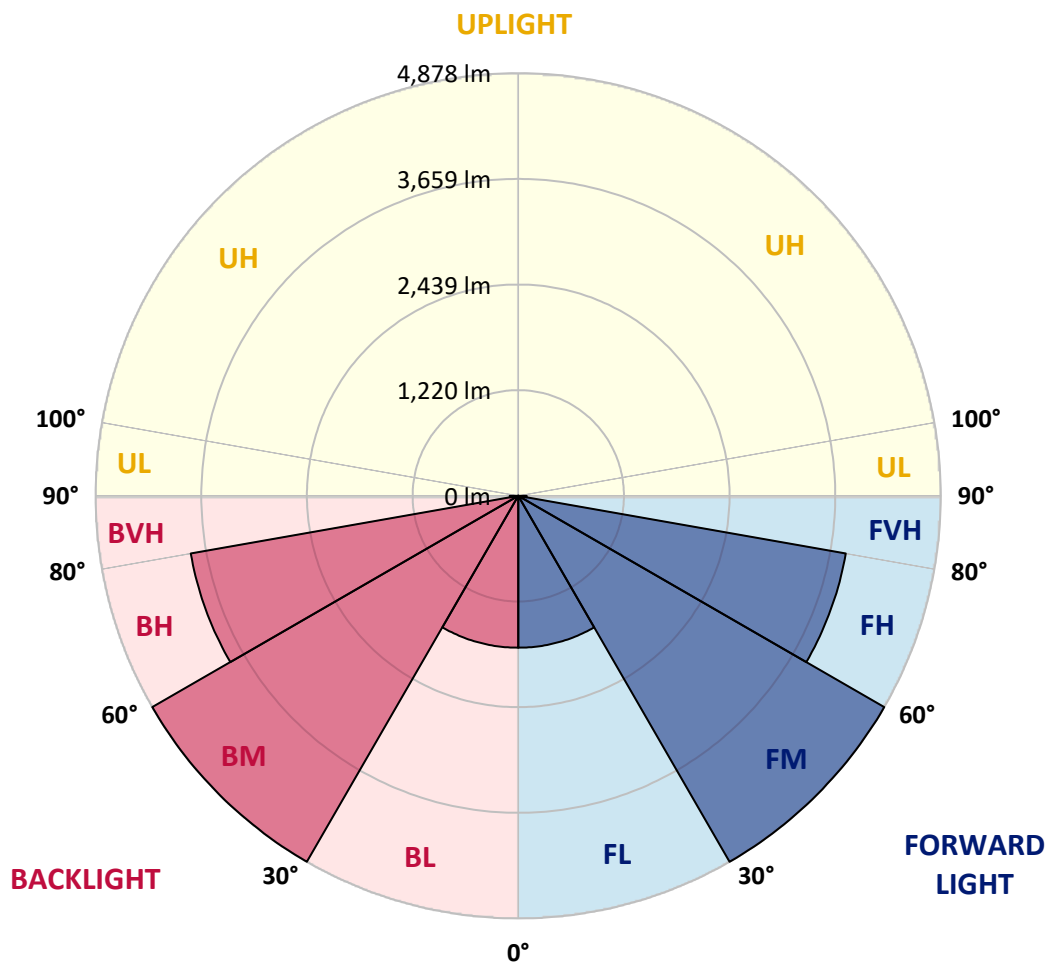


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1752.9	8.3			
FM (30°-60°)	4878.0	23.1			
FH (60°-80°)	3838.8	18.2			G2/5000
FVH (80°-90°)	96.9	0.5			G1/100
BL (0°-30°)	1752.9	8.3	B3/2500		
BM (30°-60°)	4878.0	23.1	B3/5000		
BH (60°-80°)	3838.8	18.2	B4/5000		G4/5000
BVH (80°-90°)	96.9	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°	3949.0	3949.0	3949.0	3949.0	3949.0	3949.0	3949.0	3949.0	3949.0	3949.0	3949.0
2.5°	3952.4	3956.9	3956.9	3953.5	3961.3	3954.7	3954.7	3951.3	3954.7	3951.3	3951.3
5°	3972.6	3978.2	3980.5	3979.4	3989.4	3983.9	3983.9	3979.4	3980.5	3977.1	3977.1
7.5°	4010.8	4018.6	4023.1	4028.8	4043.3	4036.7	4032.1	4018.6	4013.0	4004.1	4004.1
10°	4023.1	4032.1	4046.7	4075.9	4109.6	4110.8	4097.2	4063.6	4037.8	4017.5	4014.1
12.5°	3985.0	3997.3	4027.6	4087.2	4162.4	4192.8	4171.4	4115.3	4064.7	4028.8	4023.1
15°	3936.6	3950.1	3996.2	4086.1	4197.3	4268.0	4265.7	4191.6	4110.8	4054.6	4045.6
17.5°	3861.4	3874.9	3941.1	4066.9	4224.2	4341.0	4372.4	4296.1	4182.6	4107.4	4095.0
20°	3725.5	3737.9	3829.9	4006.3	4233.1	4418.5	4500.5	4433.1	4291.6	4189.4	4170.3
22.5°	3549.2	3568.2	3676.1	3901.9	4211.8	4499.3	4646.5	4600.4	4418.5	4277.0	4251.2
25°	3360.5	3380.7	3506.5	3773.8	4156.8	4557.8	4819.4	4790.2	4562.3	4385.9	4350.0
27.5°	3197.6	3218.9	3356.0	3646.8	4071.4	4580.2	4990.2	5004.8	4736.3	4506.1	4467.9
30°	3069.6	3089.8	3235.8	3544.7	3961.3	4557.8	5139.6	5240.6	4913.7	4610.6	4555.5
32.5°	2929.1	2955.0	3108.9	3420.0	3831.0	4503.8	5269.8	5495.6	5119.4	4722.9	4653.2
35°	2751.7	2775.3	2937.0	3249.2	3660.4	4417.3	5378.8	5778.6	5413.6	4893.6	4816.1
37.5°	2536.1	2558.5	2719.1	3035.8	3490.7	4296.1	5461.9	6097.6	5764.0	5139.6	5036.2
40°	2319.3	2340.7	2491.2	2797.7	3287.5	4141.1	5491.1	6409.8	6166.1	5477.6	5367.5
42.5°	2120.5	2139.6	2277.8	2563.0	3059.4	3943.4	5452.9	6681.7	6526.7	5713.5	5572.0
45°	1937.5	1954.3	2076.8	2342.9	2822.4	3703.0	5338.3	6973.7	6955.6	5882.0	5691.0
47.5°	1728.6	1745.4	1872.3	2129.5	2585.5	3421.1	5144.1	7261.2	7552.1	6263.9	6043.7
50°	1473.5	1488.2	1618.5	1883.5	2339.6	3121.2	4874.5	7486.9	8304.6	6842.3	6565.9
52.5°	1171.5	1187.2	1314.0	1579.1	2047.5	2798.9	4519.5	7634.1	9174.0	7686.9	7346.6
55°	871.6	882.8	992.9	1231.0	1685.8	2431.6	4074.8	7675.6	10160.0	8841.4	8415.8
57.5°	632.3	639.1	709.8	887.3	1278.2	1972.3	3534.6	7567.8	11333.7	10321.8	9786.1
60°	512.2	514.4	535.8	614.4	888.4	1453.3	2882.0	7197.1	12607.4	12230.0	11555.0
62.5°	464.9	464.9	470.6	491.9	600.9	959.2	2092.4	6428.9	13973.1	14641.4	13737.3
65°	432.4	432.4	434.7	444.7	474.0	611.0	1320.8	5177.8	15124.4	17466.2	16322.8
67.5°	403.2	404.4	403.2	406.6	423.4	451.5	766.0	3576.1	15744.4	20393.1	19158.8
70°	372.9	375.2	369.5	369.5	383.0	384.1	479.6	1961.0	15230.0	22846.0	22521.5
72.5°	336.9	340.3	331.3	329.1	339.2	334.7	360.5	941.2	13075.7	23578.4	24432.0
75°	305.4	310.0	289.8	284.1	284.1	280.7	293.2	483.0	8486.6	19234.0	20572.8
77.5°	277.5	286.4	253.8	235.9	231.3	221.3	239.2	295.4	3712.0	9030.1	8842.6
80°	229.1	241.5	208.9	187.6	179.7	168.5	188.7	206.6	1104.0	2096.9	2008.2
82.5°	170.8	176.3	148.2	133.7	126.9	119.1	141.6	143.8	359.4	742.4	839.0
85°	109.0	111.2	91.0	78.6	75.2	71.9	89.9	78.6	137.0	545.8	792.9
87.5°	38.2	43.8	34.8	31.5	33.7	28.1	41.5	23.6	38.2	385.2	477.3
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)