

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: P966612

Luminaire Tested: **NAV-SB4C-727-U-T1**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P966612  
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-SB4C-727-U-T1  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(4) 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: 28229.5 lumens  
Efficiency: N/A  
Efficacy: 140.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G5

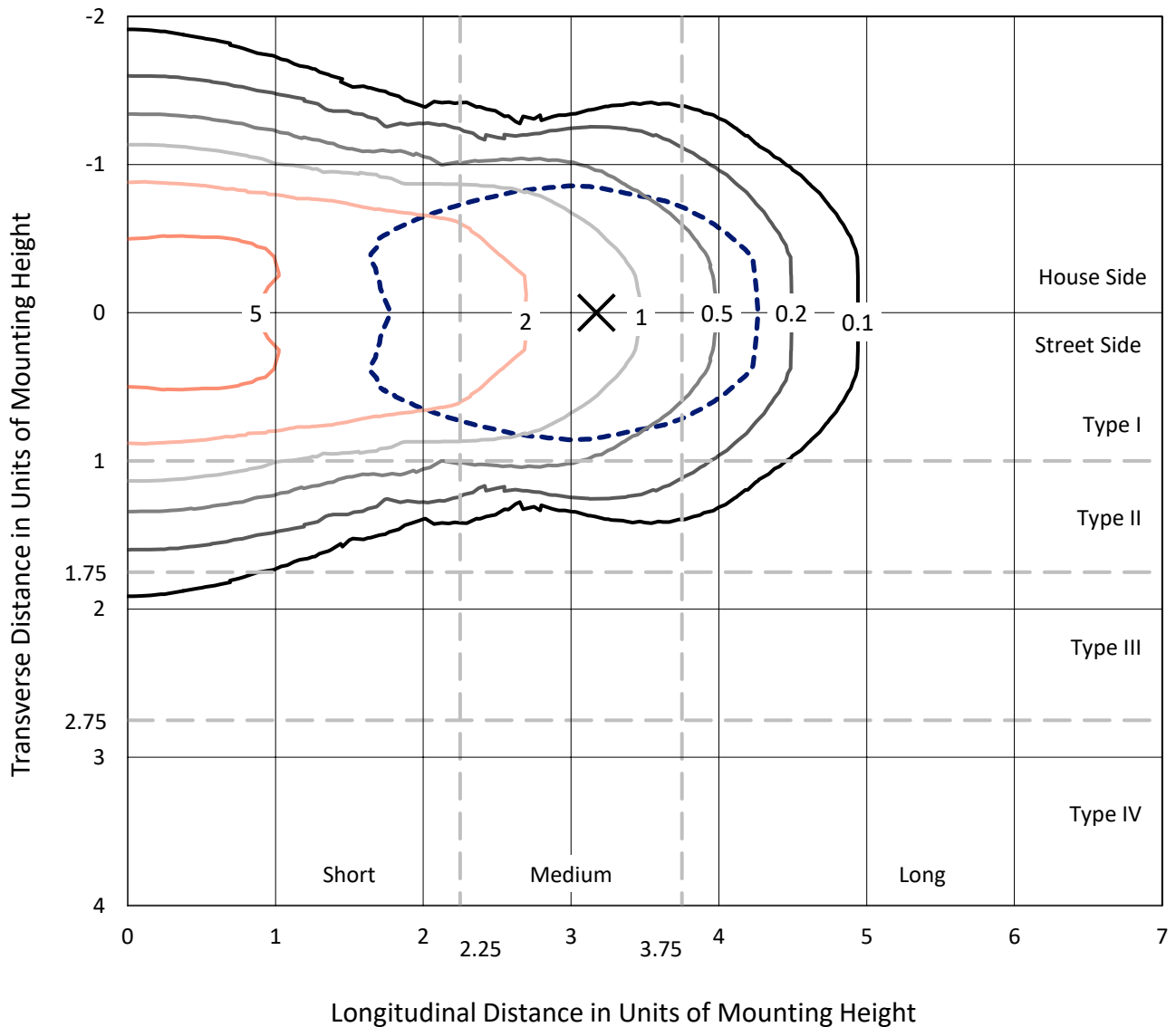
Input Watts (W): 200.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

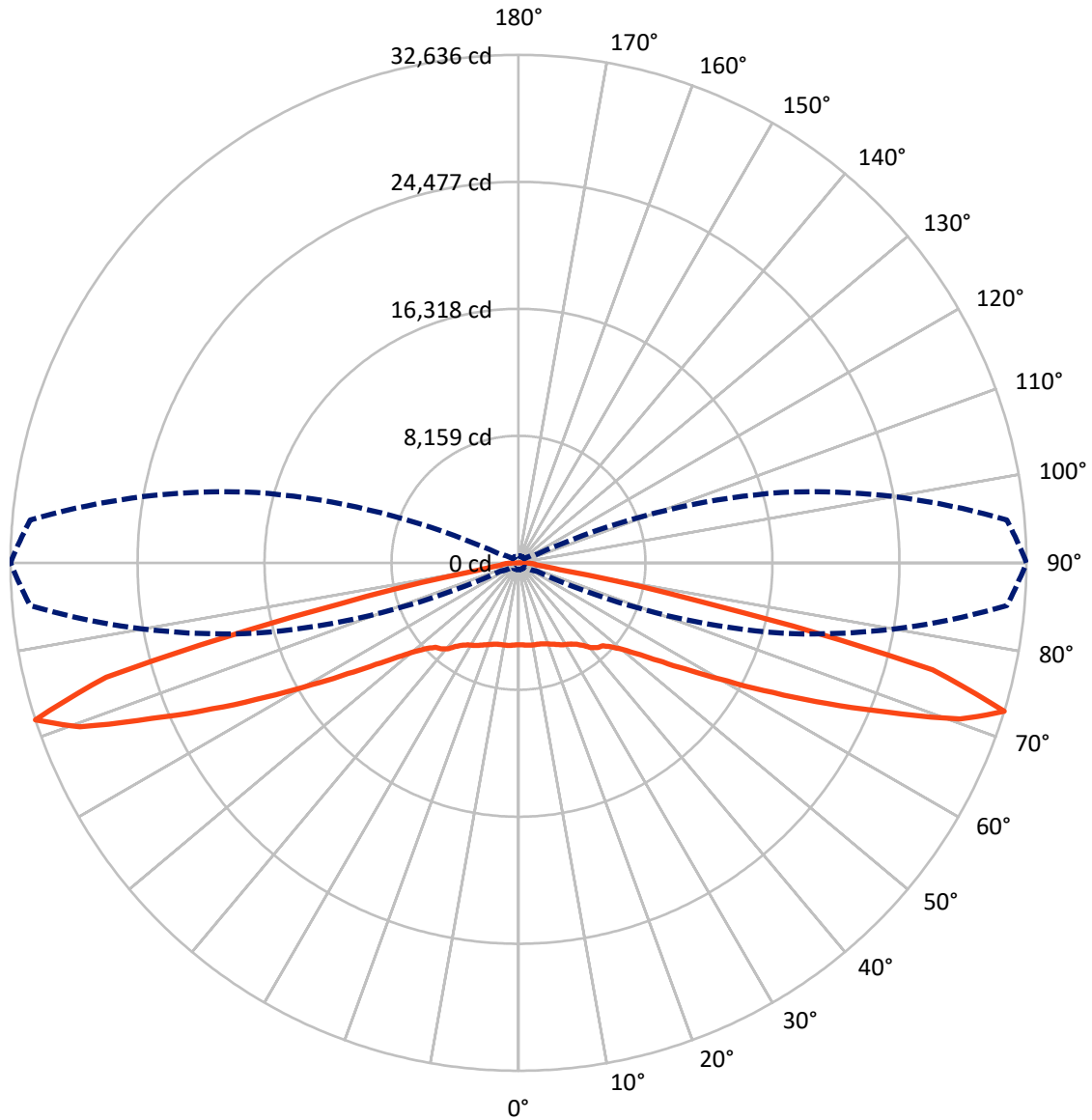
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 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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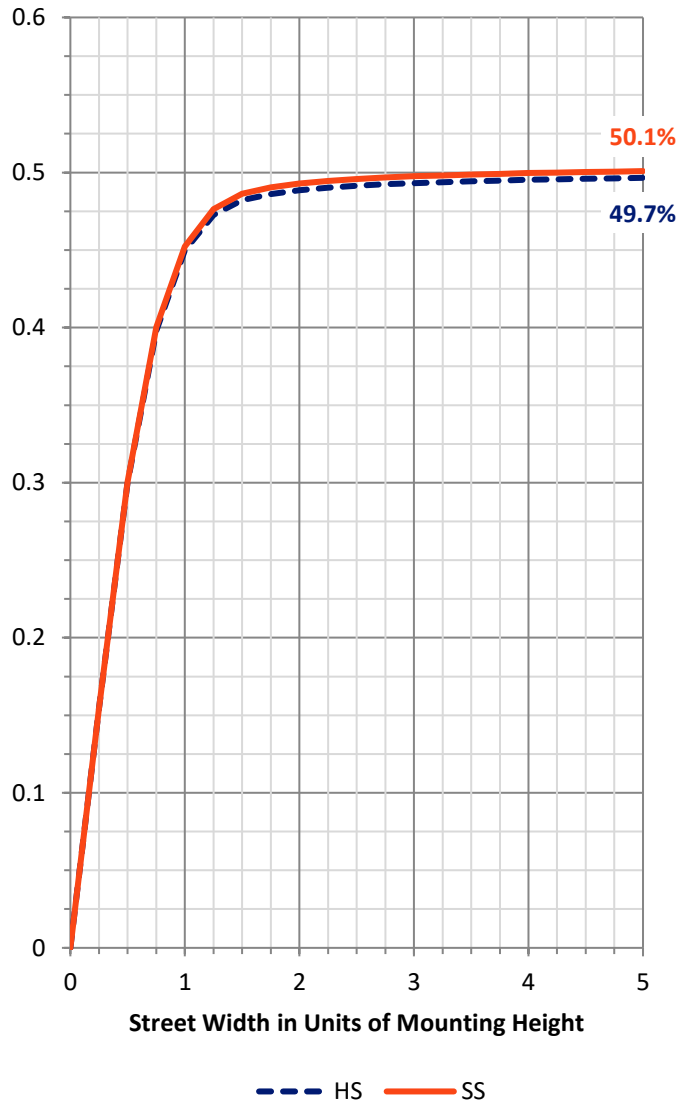
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	14114.8	0.0	14114.8
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	14114.8	0.0	14114.8
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	28229.5	0.0	28229.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	511.5	1.8
10°-20°	1563.9	5.5
20°-30°	2607.6	9.2
30°-40°	3586.3	12.7
40°-50°	4379.9	15.5
50°-60°	5065.8	17.9
60°-70°	6040.1	21.4
70°-80°	4215.6	14.9
80°-90°	258.9	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°	28229.5	100.0
0°-180°	28229.5	100.0

**Coefficient of Utilization**

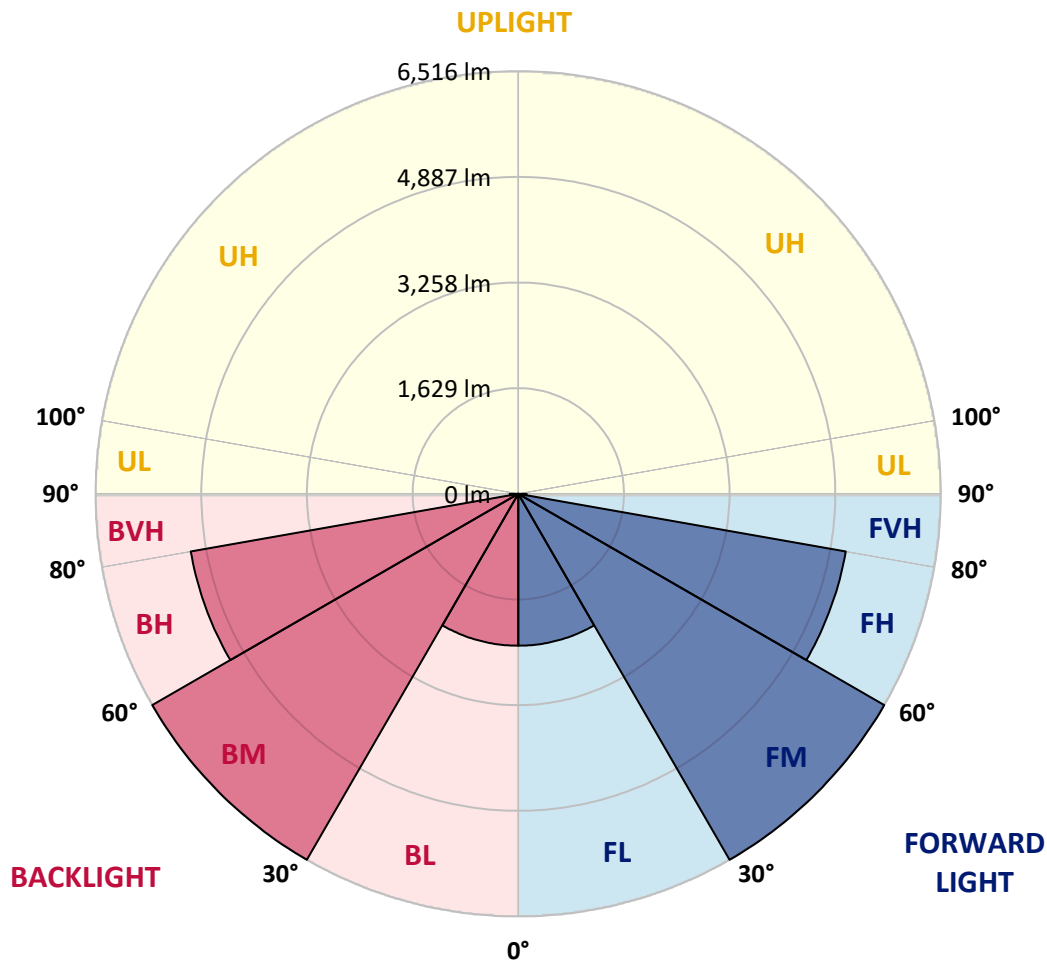


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2341.5	8.3			
FM (30°-60°)	6516.0	23.1			
FH (60°-80°)	5127.8	18.2			G3/7500
FVH (80°-90°)	129.5	0.5			G2/225
BL (0°-30°)	2341.5	8.3	B3/2500		
BM (30°-60°)	6516.0	23.1	B4/8500		
BH (60°-80°)	5127.8	18.2	B5		G5
BVH (80°-90°)	129.5	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°	5275.0	5275.0	5275.0	5275.0	5275.0	5275.0	5275.0	5275.0	5275.0	5275.0	5275.0
2.5°	5279.5	5285.5	5285.5	5281.0	5291.5	5282.4	5282.4	5278.0	5282.4	5278.0	5278.0
5°	5306.5	5314.0	5317.0	5315.4	5329.0	5321.5	5321.5	5315.4	5317.0	5312.5	5312.5
7.5°	5357.5	5368.0	5374.0	5381.5	5401.0	5392.0	5386.0	5368.0	5360.5	5348.4	5348.4
10°	5374.0	5386.0	5405.5	5444.5	5489.5	5491.0	5473.0	5428.0	5393.5	5366.5	5362.0
12.5°	5323.0	5339.5	5380.0	5459.6	5560.0	5600.5	5572.0	5497.1	5429.5	5381.5	5374.0
15°	5258.5	5276.5	5338.0	5458.0	5606.5	5701.0	5698.1	5599.1	5491.0	5416.0	5404.0
17.5°	5158.0	5175.9	5264.5	5432.5	5642.5	5798.6	5840.6	5738.6	5587.1	5486.5	5470.0
20°	4976.5	4993.0	5116.0	5351.5	5654.5	5902.1	6011.6	5921.6	5732.6	5596.1	5570.6
22.5°	4740.9	4766.4	4910.5	5212.0	5626.0	6010.1	6206.7	6145.2	5902.1	5713.0	5678.6
25°	4488.9	4515.8	4683.8	5041.0	5552.5	6088.1	6437.7	6398.7	6094.1	5858.6	5810.6
27.5°	4271.3	4299.8	4482.8	4871.4	5438.5	6118.1	6665.8	6685.3	6326.7	6019.1	5968.2
30°	4100.3	4127.3	4322.3	4734.9	5291.5	6088.1	6865.2	7000.3	6563.7	6158.6	6085.1
32.5°	3912.7	3947.3	4152.8	4568.3	5117.4	6016.1	7039.3	7340.8	6838.3	6308.7	6215.7
35°	3675.6	3707.2	3923.2	4340.3	4889.5	5900.6	7184.8	7719.0	7231.4	6536.7	6433.2
37.5°	3387.6	3417.7	3632.2	4055.2	4662.8	5738.6	7295.8	8145.1	7699.4	6865.2	6727.3
40°	3098.1	3126.6	3327.7	3737.2	4391.3	5531.5	7334.9	8562.1	8236.5	7316.9	7169.9
42.5°	2832.5	2858.0	3042.6	3423.6	4086.8	5267.5	7283.9	8925.2	8718.1	7631.9	7442.9
45°	2588.0	2610.5	2774.1	3129.6	3770.2	4946.4	7130.8	9315.2	9291.2	7856.9	7601.9
47.5°	2308.9	2331.5	2501.0	2844.6	3453.6	4569.9	6871.3	9699.3	10087.8	8367.1	8073.0
50°	1968.4	1987.9	2161.9	2516.0	3125.1	4169.3	6511.2	10000.8	11093.1	9139.7	8770.6
52.5°	1564.8	1585.8	1755.3	2109.3	2735.0	3738.7	6037.1	10197.4	12254.3	10267.9	9813.3
55°	1164.2	1179.3	1326.2	1644.3	2251.9	3248.1	5443.1	10252.9	13571.5	11810.3	11241.6
57.5°	844.7	853.6	948.2	1185.2	1707.3	2634.5	4721.4	10108.9	15139.4	13787.6	13071.9
60°	684.1	687.2	715.7	820.6	1186.7	1941.4	3849.7	9613.8	16840.6	16336.6	15434.9
62.5°	621.2	621.2	628.6	657.1	802.7	1281.2	2795.1	8587.6	18664.9	19557.6	18350.0
65°	577.6	577.6	580.6	594.1	633.1	816.1	1764.3	6916.3	20202.8	23330.8	21803.6
67.5°	538.6	540.1	538.6	543.1	565.6	603.1	1023.2	4776.9	21030.9	27240.6	25591.8
70°	498.0	501.1	493.6	493.6	511.6	513.1	640.6	2619.5	20343.8	30517.2	30083.6
72.5°	450.1	454.6	442.6	439.6	453.0	447.1	481.5	1257.3	17466.3	31495.4	32635.6
75°	408.1	414.1	387.0	379.6	379.6	375.0	391.5	645.1	11336.1	25692.3	27480.7
77.5°	370.5	382.5	339.1	315.1	309.0	295.5	319.6	394.5	4958.4	12062.3	11811.7
80°	306.1	322.6	279.0	250.5	240.1	225.1	252.0	276.0	1474.8	2801.0	2682.5
82.5°	228.1	235.5	198.0	178.6	169.5	159.1	189.0	192.1	480.1	991.7	1120.7
85°	145.5	148.5	121.6	105.1	100.6	96.0	120.0	105.1	183.1	729.2	1059.2
87.5°	51.0	58.5	46.5	42.0	45.0	37.5	55.6	31.5	51.0	514.6	637.7
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)