

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: P964488

Luminaire Tested: **NAV-SB3C-727-U-5MQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P964488  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB3C-727-U-5MQ  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22372.7 lumens  
Efficiency: N/A  
Efficacy: 150.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

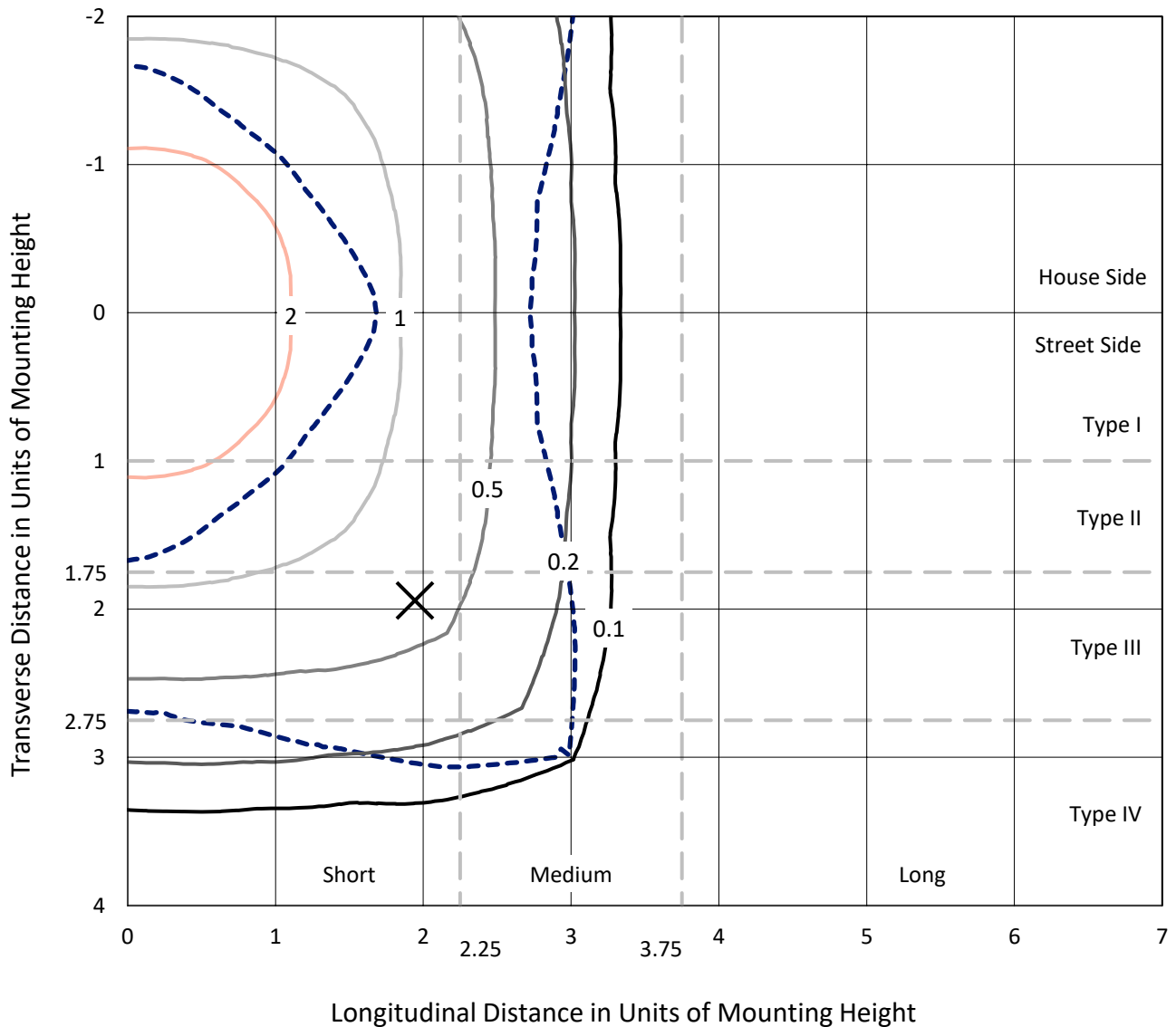
Input Watts (W): 149.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

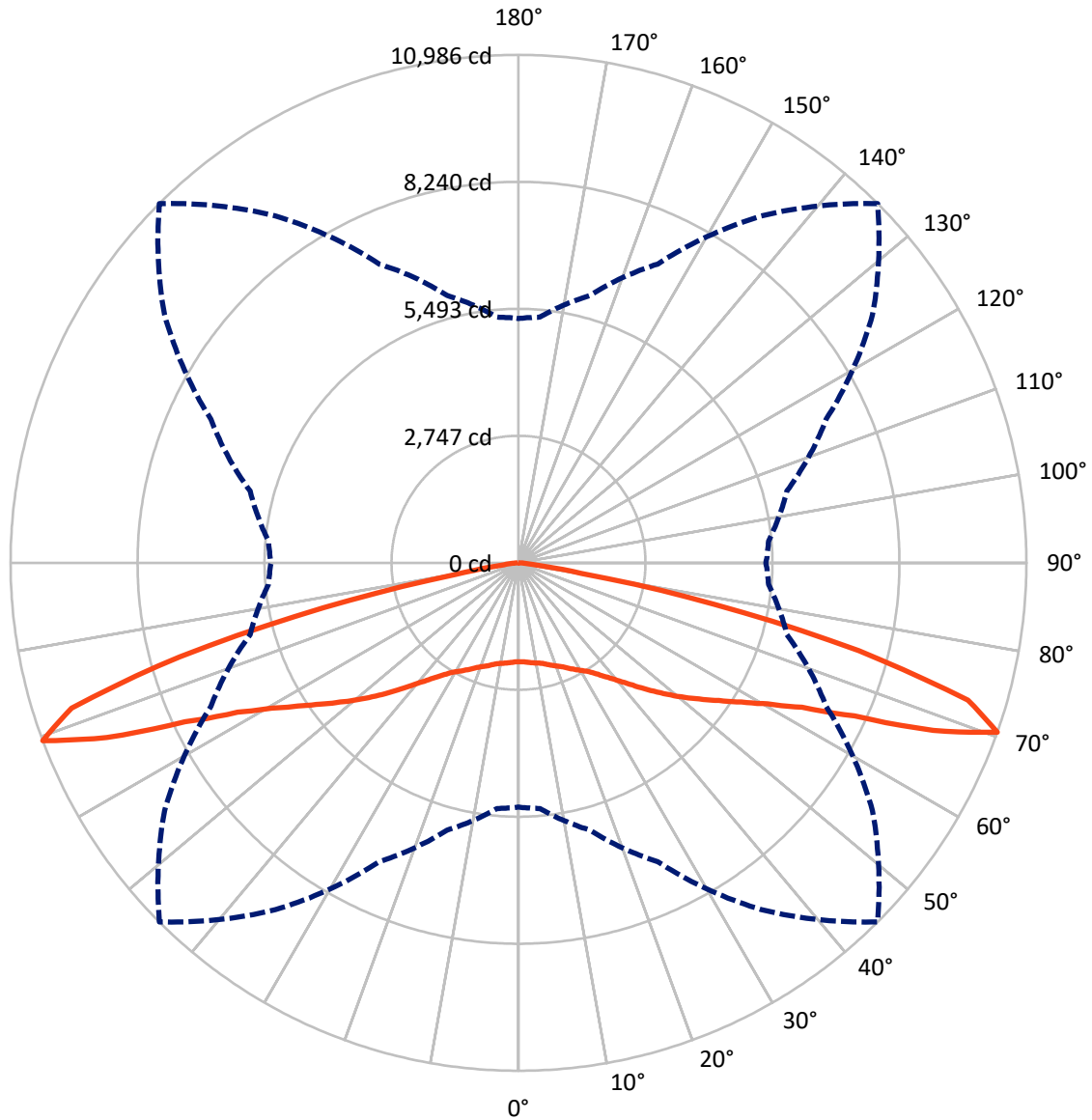
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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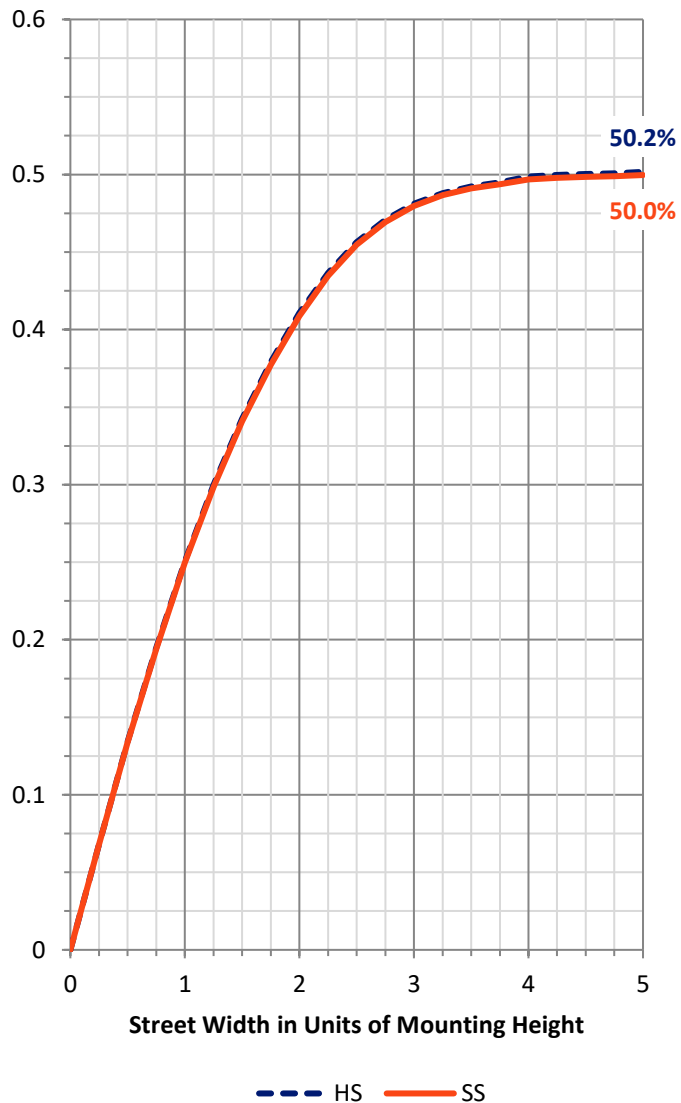
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11186.3	0.0	11186.3
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	11186.3	0.0	11186.3
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	22372.7	0.0	22372.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	208.2	0.9
10°-20°	645.6	2.9
20°-30°	1153.8	5.2
30°-40°	1870.2	8.4
40°-50°	3046.3	13.6
50°-60°	4644.6	20.8
60°-70°	6909.7	30.9
70°-80°	3766.0	16.8
80°-90°	128.2	0.6
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°	22372.7	100.0
0°-180°	22372.7	100.0

**Coefficient of Utilization**



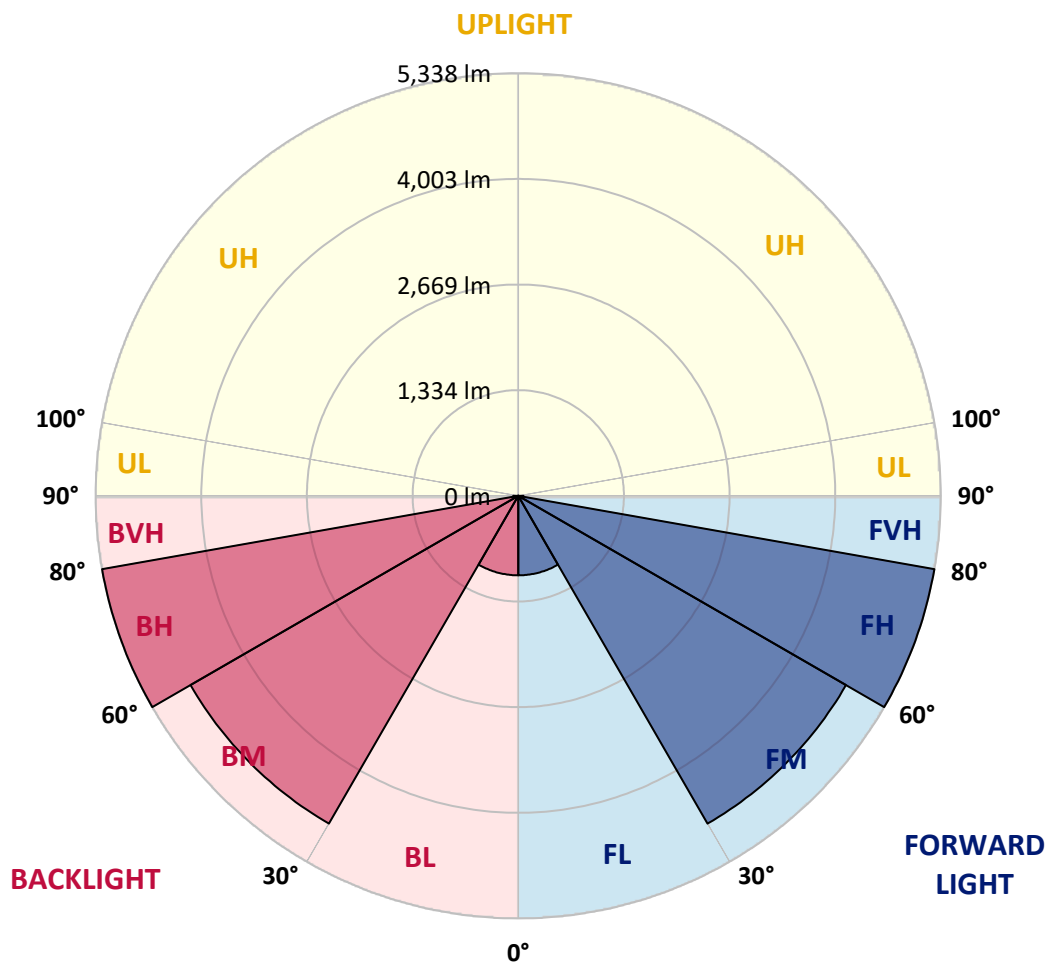
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1003.8	4.5			
FM (30°-60°)	4780.6	21.4			
FH (60°-80°)	5337.8	23.9			G3/7500
FVH (80°-90°)	64.1	0.3			G1/100
BL (0°-30°)	1003.8	4.5	B3/2500		
BM (30°-60°)	4780.6	21.4	B3/5000		
BH (60°-80°)	5337.8	23.9	B5		G3/7500
BVH (80°-90°)	64.1	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G3**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2143.1	2143.1	2143.1	2143.1	2143.1	2143.1	2143.1	2143.1	2143.1	2143.1	2143.1
2.5°	2153.2	2155.5	2151.0	2148.7	2146.5	2143.1	2144.2	2149.8	2154.3	2153.2	2154.3
5°	2171.2	2173.4	2170.0	2168.9	2164.4	2163.3	2163.3	2168.9	2172.3	2170.0	2171.2
7.5°	2191.3	2194.7	2189.1	2188.0	2185.7	2183.5	2182.4	2188.0	2191.3	2191.3	2191.3
10°	2210.4	2213.8	2209.4	2206.0	2203.8	2203.8	2201.5	2206.0	2211.5	2210.4	2210.4
12.5°	2230.7	2233.0	2228.5	2226.2	2226.2	2229.6	2226.2	2228.5	2233.0	2230.7	2229.6
15°	2255.4	2256.5	2255.4	2258.8	2264.3	2275.6	2265.5	2263.3	2265.5	2259.9	2259.9
17.5°	2289.1	2291.3	2295.8	2303.7	2311.6	2331.8	2313.8	2308.2	2308.2	2296.9	2296.9
20°	2330.6	2334.0	2340.8	2354.2	2364.4	2383.4	2365.5	2357.6	2354.2	2339.7	2339.7
22.5°	2374.4	2380.0	2390.2	2408.1	2426.1	2444.1	2426.1	2412.6	2402.5	2383.4	2382.3
25°	2424.9	2431.7	2447.5	2476.7	2501.4	2527.2	2505.8	2478.9	2458.7	2431.7	2430.6
27.5°	2496.9	2504.8	2523.9	2559.7	2591.2	2613.6	2593.5	2558.6	2530.6	2498.0	2496.9
30°	2598.0	2605.9	2628.3	2666.4	2687.9	2702.4	2689.0	2662.0	2628.3	2591.2	2591.2
32.5°	2728.2	2738.4	2763.1	2799.1	2803.5	2805.7	2801.2	2787.8	2763.1	2718.2	2719.2
35°	2893.4	2904.6	2932.7	2961.8	2957.4	2961.8	2955.2	2950.7	2932.7	2881.0	2881.0
37.5°	3095.5	3109.0	3138.2	3160.7	3149.4	3143.9	3145.0	3146.1	3136.0	3078.7	3078.7
40°	3330.3	3348.3	3369.6	3393.2	3374.1	3357.3	3368.5	3377.5	3368.5	3310.0	3310.0
42.5°	3571.8	3597.6	3620.1	3653.8	3638.0	3616.7	3632.4	3642.5	3623.5	3560.5	3565.1
45°	3840.3	3865.0	3894.2	3944.7	3933.4	3911.0	3933.4	3935.7	3903.1	3829.0	3836.9
47.5°	4117.6	4143.5	4187.3	4254.7	4250.2	4225.5	4254.7	4239.0	4197.4	4108.7	4103.1
50°	4380.4	4416.4	4483.9	4578.2	4587.2	4556.8	4596.1	4565.9	4496.2	4385.0	4382.7
52.5°	4627.6	4665.8	4772.5	4900.5	4933.1	4893.8	4946.5	4893.8	4789.3	4646.7	4633.2
55°	4887.1	4929.7	5056.6	5224.0	5289.2	5260.0	5309.4	5229.7	5081.3	4908.4	4884.8
57.5°	5192.5	5218.4	5370.1	5568.8	5678.9	5685.7	5708.1	5573.3	5393.7	5197.1	5170.1
60°	5523.9	5559.8	5724.9	5963.0	6137.2	6193.4	6169.8	5969.8	5760.9	5535.1	5499.2
62.5°	5948.5	5987.7	6185.5	6470.7	6745.9	6885.2	6793.1	6503.3	6245.0	5974.3	5927.2
65°	6300.1	6343.8	6701.0	7209.8	7710.8	7990.5	7759.0	7225.5	6760.6	6378.7	6315.7
67.5°	6045.0	6099.0	6659.4	7594.0	8839.6	9674.2	8882.2	7708.5	6797.6	6279.9	6202.3
70°	5283.6	5334.1	5987.7	7130.1	9157.5	10986.1	9348.4	7340.1	6009.2	5429.5	5352.0
72.5°	3507.8	3670.6	4332.2	5702.5	8176.9	10166.2	8257.8	5586.8	4018.8	3499.9	3386.5
75°	1163.7	1294.0	1745.5	2956.3	5476.8	7602.9	5213.9	2615.9	1382.6	995.2	941.3
77.5°	293.2	338.0	466.2	845.7	2184.6	4328.8	1966.8	690.7	376.3	262.8	234.7
80°	142.7	157.2	224.7	281.9	547.0	1376.0	513.3	265.1	177.4	137.0	125.8
82.5°	78.6	79.7	126.9	159.5	203.3	356.1	211.2	155.0	102.2	83.1	83.1
85°	48.3	47.2	67.3	85.4	85.4	126.9	101.1	85.4	58.4	51.7	53.9
87.5°	19.1	19.1	24.7	27.0	23.6	32.6	25.8	28.1	22.4	21.3	22.4
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)