

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: P970783

Luminaire Tested: **NAV-SB6C-722-U-5WQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P970783  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB6C-722-U-5WQ  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

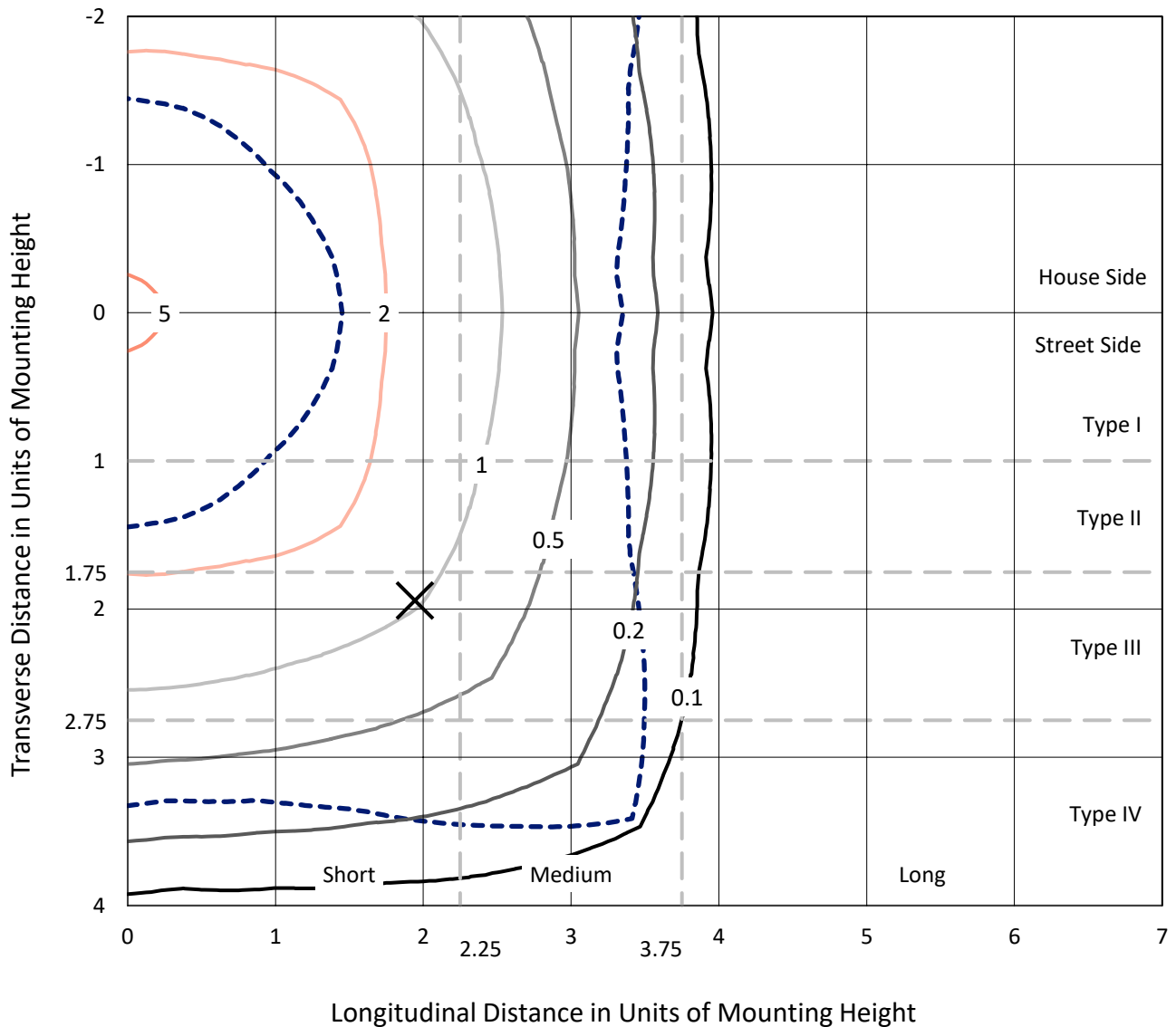
Lumens per Lamp: N/A  
Luminaire Lumens: 38896.7 lumens  
Efficiency: N/A  
Efficacy: 129.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4  
  
Input Watts (W): 300.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

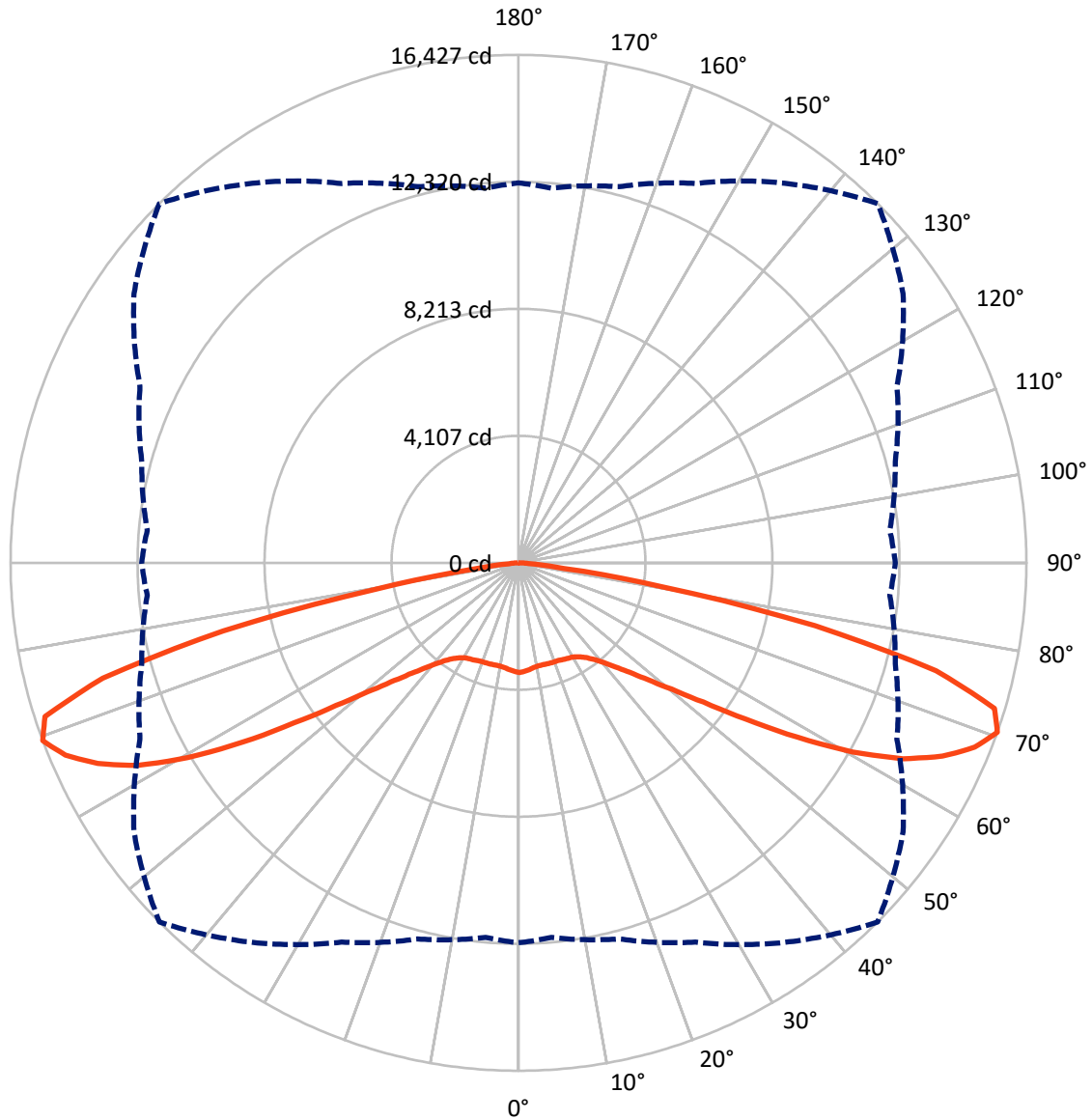
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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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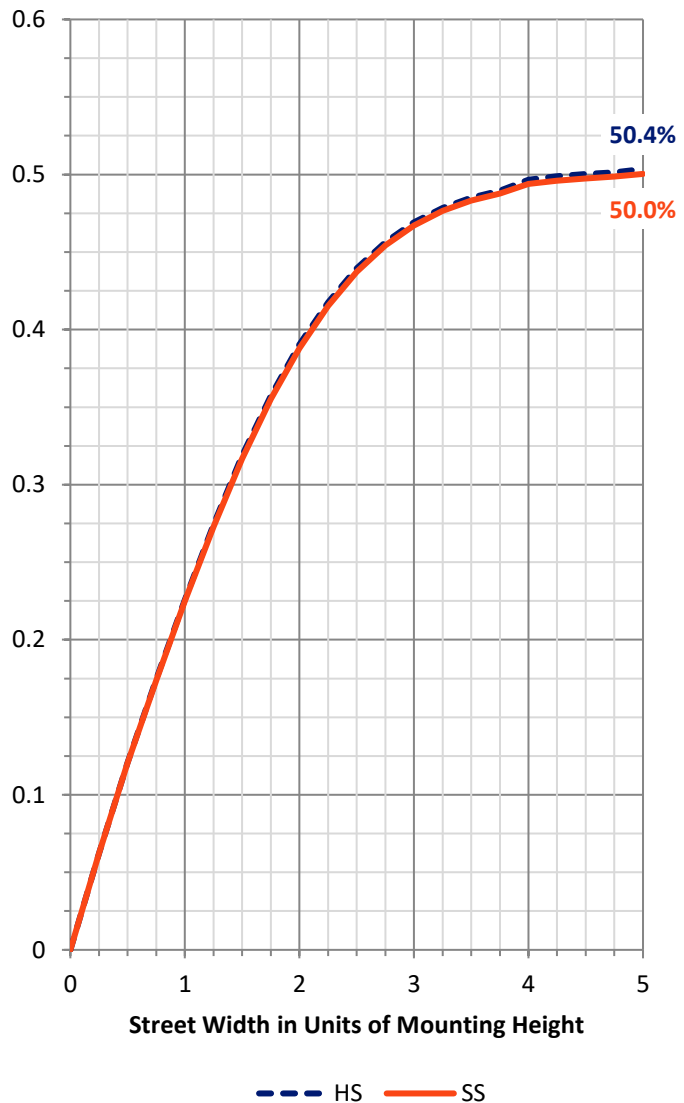
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	19448.3	0.0	19448.3
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	19448.3	0.0	19448.3
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	38896.7	0.0	38896.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	330.1	0.8
10°-20°	969.1	2.5
20°-30°	1612.8	4.1
30°-40°	2439.0	6.3
40°-50°	4053.1	10.4
50°-60°	7648.1	19.7
60°-70°	12914.0	33.2
70°-80°	8485.9	21.8
80°-90°	444.6	1.1
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°	38896.7	100.0
0°-180°	38896.7	100.0

**Coefficient of Utilization**



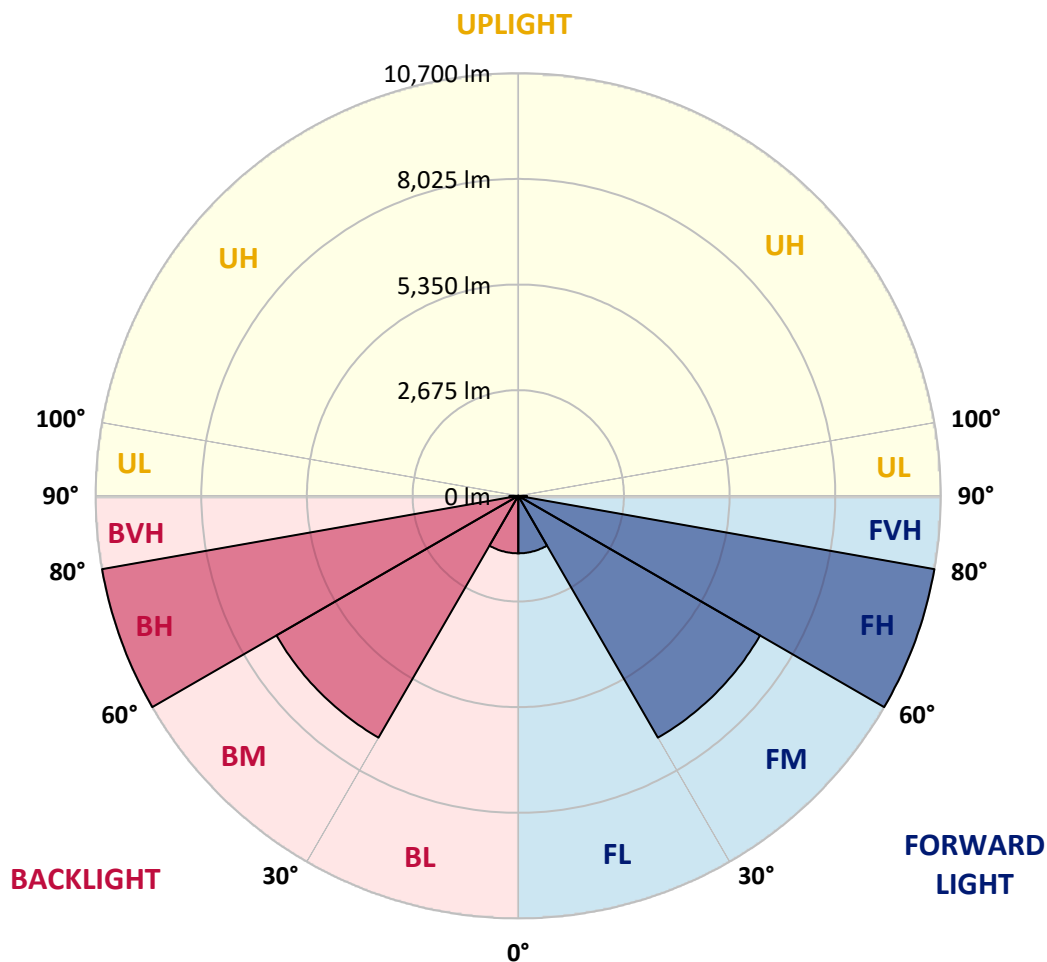
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1456.0	3.7			
FM (30°-60°)	7070.1	18.2			
FH (60°-80°)	10700.0	27.5			G4/12000
FVH (80°-90°)	222.3	0.6			G2/225
BL (0°-30°)	1456.0	3.7	B3/2500		
BM (30°-60°)	7070.1	18.2	B4/8500		
BH (60°-80°)	10700.0	27.5	B5		G4/12000
BVH (80°-90°)	222.3	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G4**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3548.1	3548.1	3548.1	3548.1	3548.1	3548.1	3548.1	3548.1	3548.1	3548.1	3548.1
2.5°	3525.9	3536.0	3531.9	3524.0	3524.0	3517.8	3524.0	3527.9	3534.0	3538.1	3536.0
5°	3479.5	3487.5	3485.5	3479.5	3481.4	3475.4	3479.5	3485.5	3489.5	3491.6	3491.6
7.5°	3439.0	3447.1	3443.1	3432.9	3432.9	3426.9	3428.8	3435.0	3441.0	3443.1	3443.1
10°	3428.8	3436.9	3424.8	3408.6	3402.6	3394.5	3396.5	3402.6	3414.7	3420.8	3420.8
12.5°	3432.9	3439.0	3426.9	3402.6	3396.5	3388.4	3388.4	3394.5	3410.7	3418.8	3420.8
15°	3445.0	3451.1	3432.9	3406.7	3400.5	3394.5	3392.4	3400.5	3418.8	3432.9	3435.0
17.5°	3467.3	3473.3	3445.0	3408.6	3400.5	3402.6	3400.5	3406.7	3435.0	3461.2	3461.2
20°	3487.5	3491.6	3453.1	3408.6	3400.5	3402.6	3400.5	3412.7	3449.1	3485.5	3487.5
22.5°	3493.6	3497.6	3461.2	3422.8	3416.7	3418.8	3416.7	3428.8	3463.3	3499.7	3499.7
25°	3495.6	3501.7	3473.3	3443.1	3453.1	3457.2	3453.1	3455.2	3481.4	3513.8	3511.8
27.5°	3525.9	3534.0	3507.8	3481.4	3487.5	3485.5	3491.6	3497.6	3517.8	3550.2	3542.1
30°	3588.6	3594.7	3572.4	3546.1	3542.1	3527.9	3546.1	3566.4	3588.6	3616.9	3610.9
32.5°	3691.7	3703.8	3675.5	3647.3	3629.0	3620.9	3635.1	3669.5	3699.8	3730.1	3718.0
35°	3863.5	3871.6	3845.4	3792.8	3760.4	3760.4	3772.6	3817.1	3865.6	3904.0	3889.9
37.5°	4106.2	4116.3	4069.8	4007.1	3958.6	3958.6	3974.7	4021.3	4094.1	4148.6	4128.4
40°	4401.3	4415.5	4356.9	4292.2	4245.7	4237.6	4257.7	4310.3	4379.1	4447.9	4425.6
42.5°	4757.1	4773.3	4696.5	4639.9	4603.5	4603.5	4613.6	4662.1	4724.8	4809.7	4803.7
45°	5212.0	5240.3	5135.2	5078.7	5044.2	5052.3	5058.4	5100.9	5157.5	5254.6	5250.5
47.5°	5753.8	5782.2	5671.0	5612.4	5606.3	5644.7	5620.5	5650.8	5681.1	5792.3	5760.0
50°	6368.5	6417.0	6340.2	6336.1	6348.2	6419.1	6362.4	6378.6	6344.2	6415.0	6372.5
52.5°	7120.6	7191.3	7177.2	7201.4	7337.0	7482.5	7353.0	7296.5	7167.1	7189.4	7114.5
55°	8032.4	8139.5	8159.7	8305.4	8612.7	8909.8	8634.9	8406.4	8131.4	8080.9	8002.1
57.5°	9069.5	9154.5	9251.5	9548.7	10122.9	10650.6	10122.9	9617.5	9184.8	9081.7	9008.9
60°	10185.5	10290.7	10383.7	10822.4	11675.6	12417.6	11659.4	10856.8	10284.6	10145.1	10023.8
62.5°	11384.5	11519.9	11584.6	12071.8	13066.5	13952.1	13080.6	12108.2	11473.4	11323.8	11202.5
65°	12534.8	12646.0	12718.8	13238.4	14188.6	15076.1	14253.3	13295.0	12641.9	12445.9	12348.8
67.5°	13070.6	13131.3	13309.1	13897.5	14900.2	15913.1	15070.1	13960.2	13230.3	12886.6	12890.6
70°	12286.2	12162.9	12591.4	13533.6	14985.2	16426.6	15179.2	13505.3	12611.6	12053.7	12187.0
72.5°	9494.1	9281.8	10025.8	11637.1	14014.7	16099.2	14111.8	11728.2	10488.8	9356.6	9637.7
75°	5165.6	4924.9	5952.0	7990.0	11176.2	13954.0	11433.0	8218.3	6627.2	5127.2	5460.7
77.5°	1457.7	1366.7	2195.7	3865.6	6722.3	9797.4	6981.1	3950.5	2604.0	1544.6	1716.5
80°	446.8	432.7	586.3	1164.5	2854.7	4692.4	2743.5	1178.6	746.0	471.1	497.3
82.5°	264.9	242.6	291.1	424.6	727.9	1473.8	707.7	442.8	355.8	238.5	258.8
85°	151.6	141.6	171.9	206.2	244.7	313.3	204.2	210.2	190.0	127.4	133.5
87.5°	62.6	56.6	66.7	64.7	56.6	72.8	54.6	64.7	76.9	50.5	46.5
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)