

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: P884752

Luminaire Tested: **NAV-SB5D-722-U-5WQ**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P884752  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB5D-722-U-5WQ  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

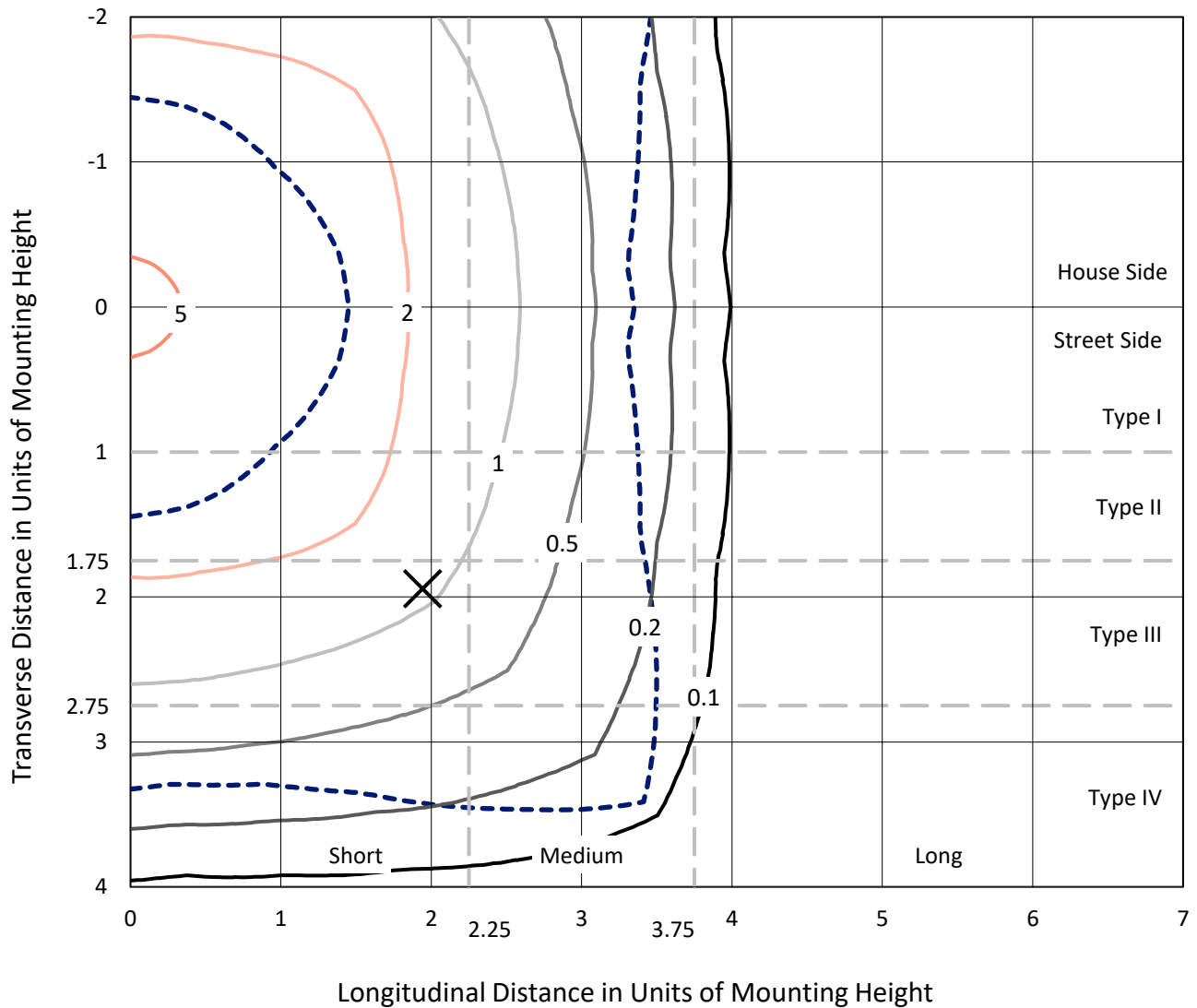
Lumens per Lamp: N/A  
Luminaire Lumens: 41621 lumens  
Efficiency: N/A  
Efficacy: 114.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4  
  
Input Watts (W): 364.9  
Input Voltage (V): 120.0  
Input Current (Ain): 3.094  
Voltage Rise (V): NR  
Power Factor: 0.998  
Total Harmonic Distortion (THDi): 3.28  
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

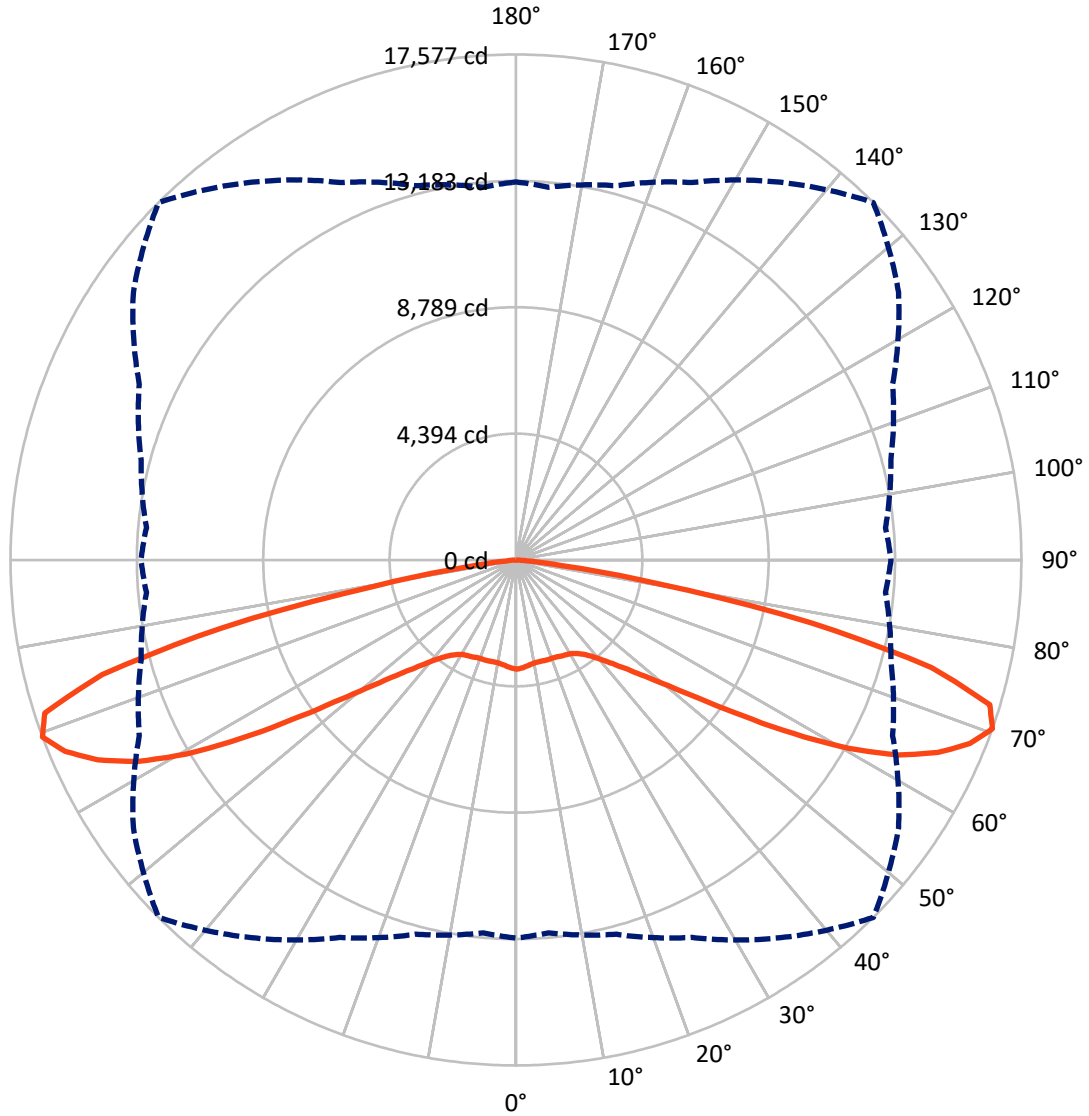
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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	20810.5	0.0	20810.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	20810.5	0.0	20810.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	41621.0	0.0	41621.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	353.2	0.8
10°-20°	1037.0	2.5
20°-30°	1725.8	4.1
30°-40°	2609.9	6.3
40°-50°	4337.0	10.4
50°-60°	8183.7	19.7
60°-70°	13818.5	33.2
70°-80°	9080.2	21.8
80°-90°	475.7	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°	41621.0	100.0
0°-180°	41621.0	100.0

**Coefficient of Utilization**



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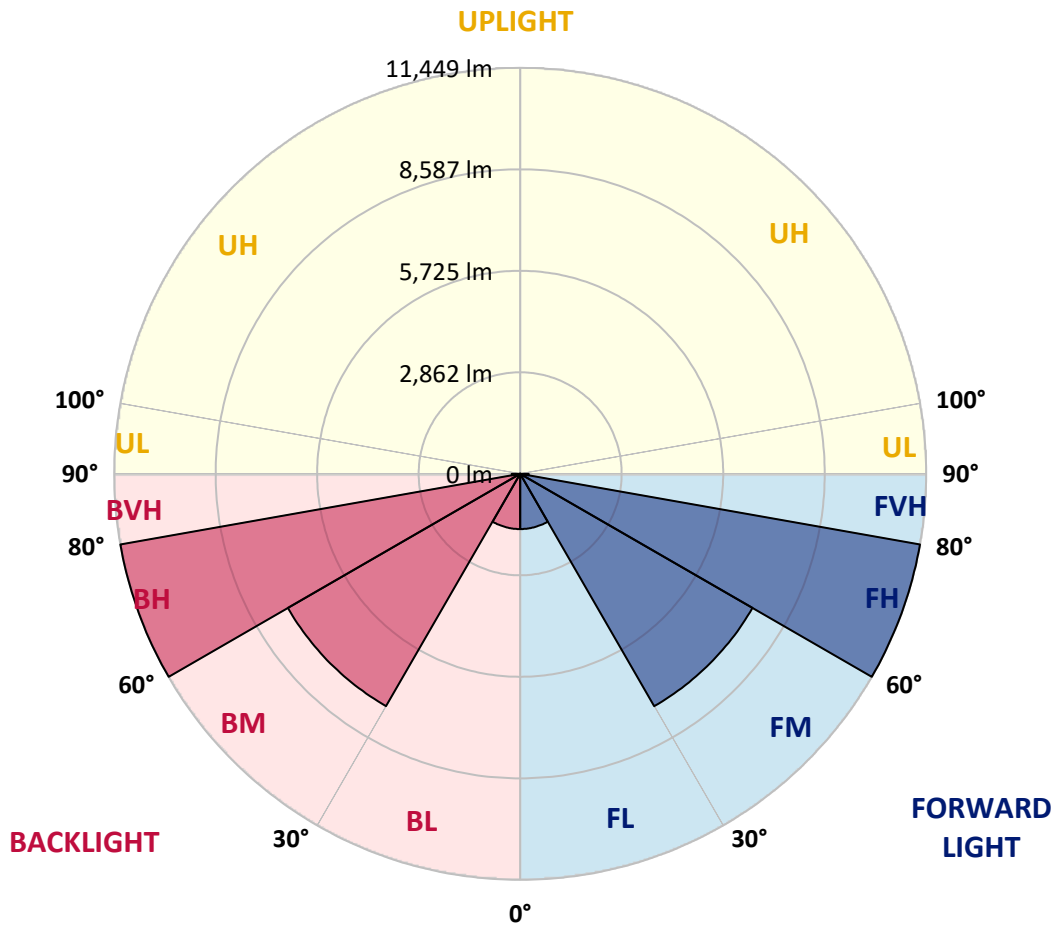
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1558.0	3.7			
FM (30°-60°)	7565.3	18.2			
FH (60°-80°)	11449.4	27.5			G4/12000
FVH (80°-90°)	237.9	0.6			G3/500
BL (0°-30°)	1558.0	3.7	B3/2500		
BM (30°-60°)	7565.3	18.2	B4/8500		
BH (60°-80°)	11449.4	27.5	B5		G4/12000
BVH (80°-90°)	237.9	0.6			G3/500
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°	3796.7	3796.7	3796.7	3796.7	3796.7	3796.7	3796.7	3796.7	3796.7	3796.7	3796.7
2.5°	3772.9	3783.7	3779.4	3770.7	3770.7	3764.2	3770.7	3775.0	3781.5	3785.9	3783.7
5°	3723.1	3731.8	3729.6	3723.1	3725.3	3718.8	3723.1	3729.6	3733.9	3736.1	3736.1
7.5°	3679.9	3688.5	3684.2	3673.4	3673.4	3666.9	3669.0	3675.5	3682.0	3684.2	3684.2
10°	3669.0	3677.7	3664.7	3647.4	3640.9	3632.3	3634.4	3640.9	3653.9	3660.4	3660.4
12.5°	3673.4	3679.9	3666.9	3640.9	3634.4	3625.8	3625.8	3632.3	3649.6	3658.2	3660.4
15°	3686.3	3692.8	3673.4	3645.2	3638.7	3632.3	3630.1	3638.7	3658.2	3673.4	3675.5
17.5°	3710.1	3716.6	3686.3	3647.4	3638.7	3640.9	3638.7	3645.2	3675.5	3703.6	3703.6
20°	3731.8	3736.1	3695.0	3647.4	3638.7	3640.9	3638.7	3651.7	3690.7	3729.6	3731.8
22.5°	3738.3	3742.6	3703.6	3662.5	3656.1	3658.2	3656.1	3669.0	3705.8	3744.8	3744.8
25°	3740.4	3746.9	3716.6	3684.2	3695.0	3699.3	3695.0	3697.2	3725.3	3759.9	3757.7
27.5°	3772.9	3781.5	3753.4	3725.3	3731.8	3729.6	3736.1	3742.6	3764.2	3798.8	3790.2
30°	3839.9	3846.4	3822.6	3794.5	3790.2	3775.0	3794.5	3816.1	3839.9	3870.2	3863.7
32.5°	3950.3	3963.3	3933.0	3902.7	3883.2	3874.6	3889.7	3926.5	3958.9	3991.4	3978.4
35°	4134.2	4142.8	4114.7	4058.4	4023.8	4023.8	4036.8	4084.4	4136.3	4177.4	4162.3
37.5°	4393.8	4404.6	4354.8	4287.8	4235.8	4235.8	4253.1	4302.9	4380.8	4439.2	4417.6
40°	4709.6	4724.7	4662.0	4592.8	4543.0	4534.4	4556.0	4612.3	4685.8	4759.4	4735.6
42.5°	5090.4	5107.7	5025.5	4964.9	4925.9	4925.9	4936.8	4988.7	5055.7	5146.6	5140.1
45°	5577.1	5607.4	5494.9	5434.3	5397.5	5406.2	5412.7	5458.1	5518.7	5622.5	5618.2
47.5°	6156.9	6187.2	6068.2	6005.5	5999.0	6040.1	6014.1	6046.6	6079.0	6198.0	6163.4
50°	6814.5	6866.5	6784.3	6779.9	6792.9	6868.6	6808.1	6825.4	6788.6	6864.3	6818.9
52.5°	7619.3	7695.0	7679.9	7705.8	7850.8	8006.5	7868.1	7807.5	7669.1	7692.9	7612.8
55°	8595.0	8709.6	8731.3	8887.0	9215.9	9533.9	9239.7	8995.2	8701.0	8646.9	8562.5
57.5°	9704.8	9795.6	9899.5	10217.5	10831.9	11396.5	10831.9	10291.0	9828.1	9717.8	9639.9
60°	10898.9	11011.4	11110.9	11580.4	12493.3	13287.3	12476.0	11617.2	11004.9	10855.7	10725.9
62.5°	12181.8	12326.7	12396.0	12917.3	13981.7	14929.3	13996.9	12956.3	12277.0	12116.9	11987.1
65°	13412.7	13531.7	13609.6	14165.6	15182.4	16132.1	15251.6	14226.2	13527.4	13317.6	13213.7
67.5°	13986.0	14050.9	14241.3	14870.8	15943.9	17027.7	16125.6	14937.9	14156.9	13789.2	13793.5
70°	13146.7	13014.7	13473.3	14481.4	16034.7	17577.2	16242.4	14451.2	13495.0	12897.9	13040.7
72.5°	10159.1	9931.9	10728.0	12452.2	14996.3	17226.7	15100.2	12549.6	11223.4	10012.0	10312.7
75°	5527.4	5269.9	6368.9	8549.5	11959.0	14931.4	12233.7	8794.0	7091.4	5486.2	5843.2
77.5°	1559.8	1462.4	2349.4	4136.3	7193.1	10483.6	7470.0	4227.2	2786.4	1652.8	1836.7
80°	478.1	463.0	627.4	1246.1	3054.6	5021.1	2935.7	1261.2	798.3	504.1	532.2
82.5°	283.4	259.6	311.5	454.3	778.8	1577.1	757.2	473.8	380.7	255.3	276.9
85°	162.3	151.4	183.9	220.7	261.8	335.3	218.5	225.0	203.4	136.3	142.8
87.5°	67.1	60.6	71.4	69.2	60.6	77.9	58.4	69.2	82.2	54.1	49.8
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)