

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: P885262

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

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P885262  
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-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: ELECTRONIC DRIVER

**Summary**

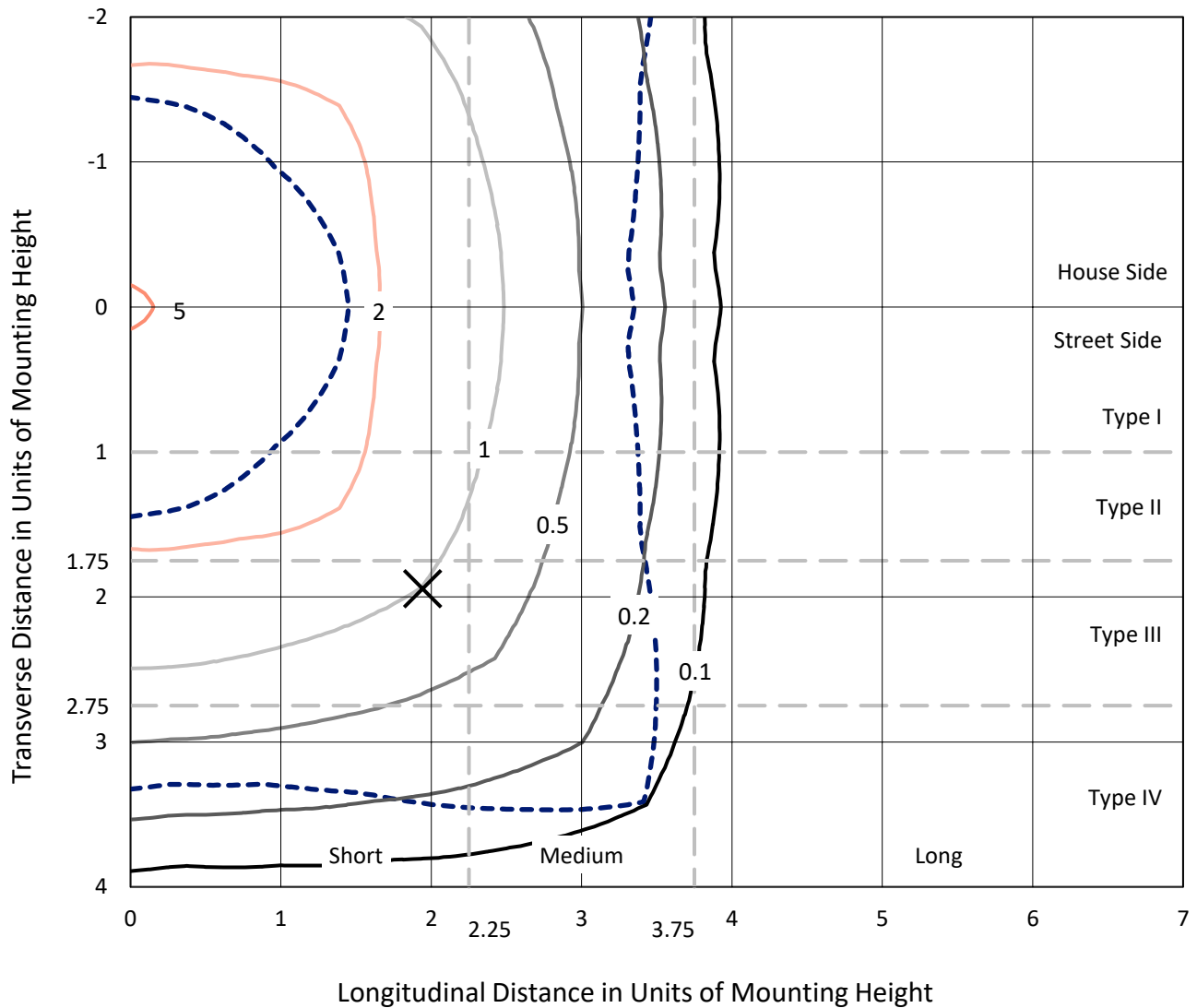
Lumens per Lamp: N/A  
Luminaire Lumens: 36640 lumens  
Efficiency: N/A  
Efficacy: 121.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4  
  
Input Watts (W): 300.9  
Input Voltage (V): 120.0  
Input Current (Ain): 2.518  
Voltage Rise (V): NR  
Power Factor: 0.997  
Total Harmonic Distortion (THDi): 6.297  
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

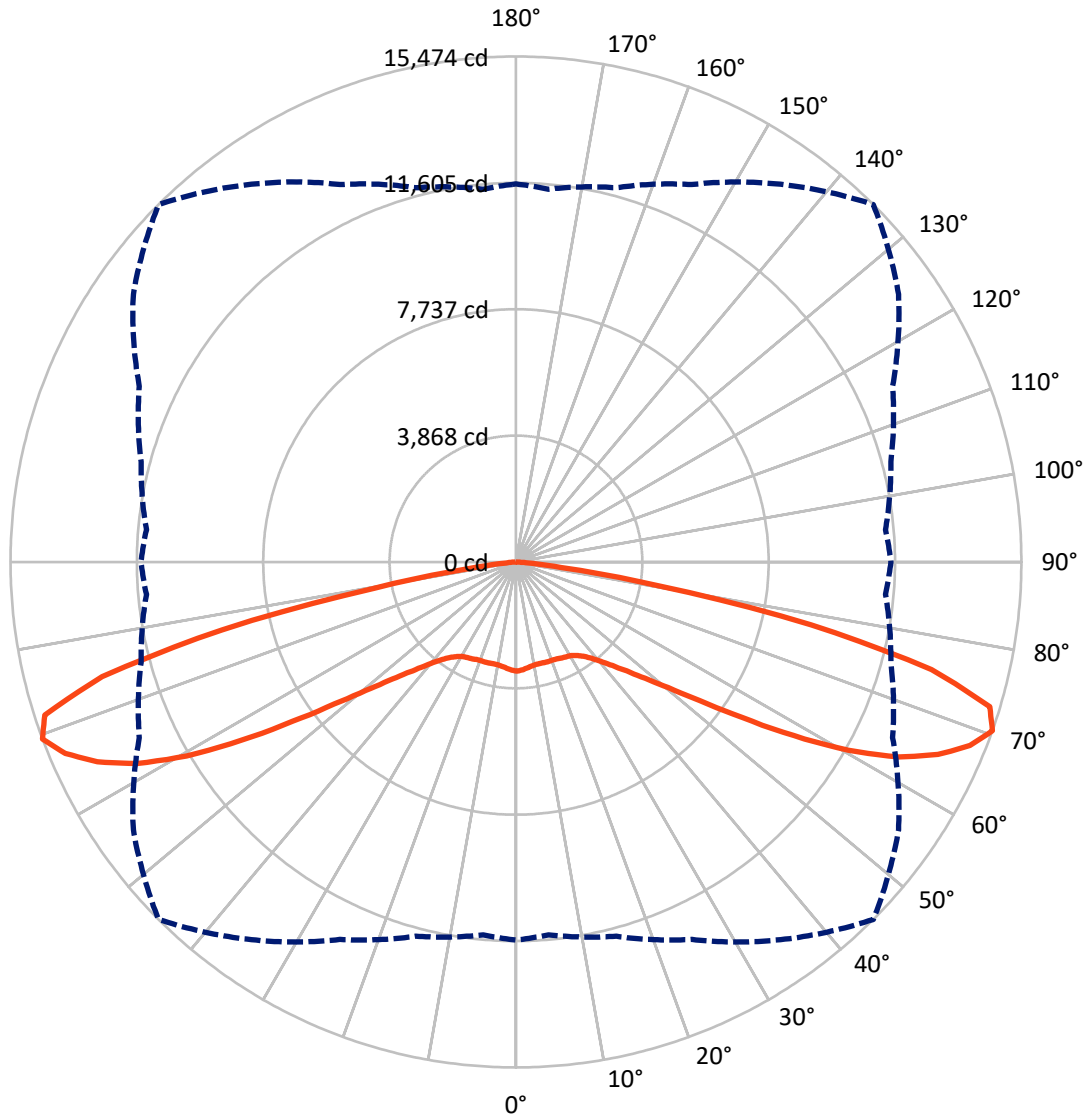
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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	18320.0	0.0	18320.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	18320.0	0.0	18320.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	36640.0	0.0	36640.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	310.9	0.8
10°-20°	912.9	2.5
20°-30°	1519.2	4.1
30°-40°	2297.5	6.3
40°-50°	3817.9	10.4
50°-60°	7204.3	19.7
60°-70°	12164.8	33.2
70°-80°	7993.5	21.8
80°-90°	418.8	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°	36640.0	100.0
0°-180°	36640.0	100.0

**Coefficient of Utilization**



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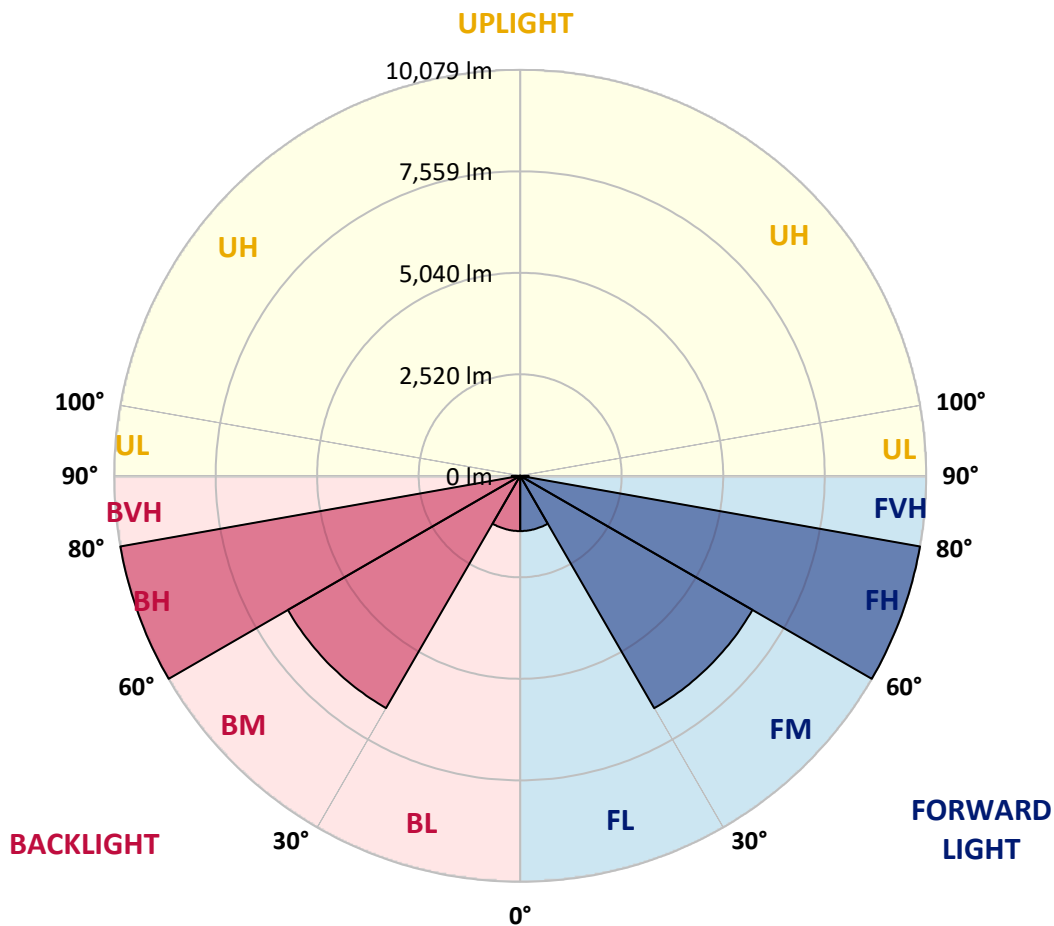
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1371.5	3.7			
FM (30°-60°)	6659.9	18.2			
FH (60°-80°)	10079.2	27.5			G4/12000
FVH (80°-90°)	209.4	0.6			G2/225
BL (0°-30°)	1371.5	3.7	B3/2500		
BM (30°-60°)	6659.9	18.2	B4/8500		
BH (60°-80°)	10079.2	27.5	B5		G4/12000
BVH (80°-90°)	209.4	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°	3342.3	3342.3	3342.3	3342.3	3342.3	3342.3	3342.3	3342.3	3342.3	3342.3	3342.3
2.5°	3321.4	3330.9	3327.1	3319.5	3319.5	3313.7	3319.5	3323.3	3329.0	3332.8	3330.9
5°	3277.6	3285.2	3283.3	3277.6	3279.5	3273.7	3277.6	3283.3	3287.1	3289.0	3289.0
7.5°	3239.5	3247.1	3243.3	3233.8	3233.8	3228.0	3229.9	3235.7	3241.4	3243.3	3243.3
10°	3229.9	3237.6	3226.1	3210.9	3205.2	3197.6	3199.5	3205.2	3216.6	3222.3	3222.3
12.5°	3233.8	3239.5	3228.0	3205.2	3199.5	3191.9	3191.9	3197.6	3212.8	3220.4	3222.3
15°	3245.2	3250.9	3233.8	3209.0	3203.3	3197.6	3195.7	3203.3	3220.4	3233.8	3235.7
17.5°	3266.1	3271.8	3245.2	3210.9	3203.3	3205.2	3203.3	3209.0	3235.7	3260.4	3260.4
20°	3285.2	3289.0	3252.8	3210.9	3203.3	3205.2	3203.3	3214.7	3249.0	3283.3	3285.2
22.5°	3290.9	3294.7	3260.4	3224.2	3218.5	3220.4	3218.5	3229.9	3262.3	3296.6	3296.6
25°	3292.8	3298.5	3271.8	3243.3	3252.8	3256.6	3252.8	3254.7	3279.5	3309.9	3308.0
27.5°	3321.4	3329.0	3304.2	3279.5	3285.2	3283.3	3289.0	3294.7	3313.7	3344.2	3336.6
30°	3380.4	3386.1	3365.2	3340.4	3336.6	3323.3	3340.4	3359.4	3380.4	3407.1	3401.3
32.5°	3477.5	3488.9	3462.3	3435.6	3418.5	3410.9	3424.2	3456.6	3485.1	3513.7	3502.3
35°	3639.4	3647.0	3622.3	3572.7	3542.3	3542.3	3553.7	3595.6	3641.3	3677.5	3664.2
37.5°	3867.9	3877.5	3833.7	3774.6	3728.9	3728.9	3744.1	3787.9	3856.5	3907.9	3888.9
40°	4146.0	4159.3	4104.1	4043.1	3999.3	3991.7	4010.8	4060.3	4125.0	4189.8	4168.8
42.5°	4481.2	4496.4	4424.0	4370.7	4336.4	4336.4	4345.9	4391.7	4450.7	4530.7	4525.0
45°	4909.7	4936.3	4837.3	4784.0	4751.6	4759.2	4764.9	4804.9	4858.2	4949.7	4945.9
47.5°	5420.1	5446.7	5342.0	5286.7	5281.0	5317.2	5294.4	5322.9	5351.5	5456.2	5425.8
50°	5999.0	6044.7	5972.3	5968.5	5980.0	6046.6	5993.3	6008.5	5976.2	6042.8	6002.8
52.5°	6707.5	6774.1	6760.8	6783.6	6911.2	7048.4	6926.5	6873.2	6751.3	6772.2	6701.8
55°	7566.4	7667.3	7686.4	7823.5	8112.9	8392.9	8133.9	7918.7	7659.7	7612.1	7537.8
57.5°	8543.4	8623.3	8714.8	8994.7	9535.6	10032.6	9535.6	9059.5	8651.9	8554.8	8486.2
60°	9594.6	9693.6	9781.2	10194.5	10998.2	11697.1	10982.9	10226.9	9687.9	9556.5	9442.3
62.5°	10723.9	10851.5	10912.5	11371.5	12308.4	13142.6	12321.8	11405.7	10807.7	10666.8	10552.5
65°	11807.6	11912.3	11980.9	12470.3	13365.4	14201.5	13426.4	12523.6	11908.5	11723.8	11632.4
67.5°	12312.3	12369.4	12537.0	13091.2	14035.8	14989.9	14195.8	13150.2	12462.7	12138.9	12142.8
70°	11573.3	11457.2	11860.9	12748.4	14115.8	15473.6	14298.6	12721.7	11879.9	11354.3	11480.0
72.5°	8943.3	8743.3	9444.2	10962.0	13201.6	15165.1	13293.0	11047.7	9880.3	8813.8	9078.5
75°	4865.9	4639.2	5606.7	7526.4	10527.8	13144.5	10769.7	7741.6	6242.8	4829.7	5143.9
77.5°	1373.1	1287.4	2068.2	3641.3	6332.3	9229.0	6576.1	3721.3	2452.9	1455.0	1616.9
80°	420.9	407.6	552.3	1097.0	2689.1	4420.2	2584.3	1110.3	702.7	443.7	468.5
82.5°	249.5	228.5	274.2	399.9	685.6	1388.3	666.6	417.1	335.2	224.7	243.8
85°	142.8	133.3	161.9	194.3	230.4	295.2	192.3	198.1	179.0	120.0	125.7
87.5°	59.0	53.3	62.8	60.9	53.3	68.6	51.4	60.9	72.4	47.6	43.8
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)