

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: P885355

Luminaire Tested: **NAV-SB6C-835-U-T1**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P885355  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB6C-835-U-T1  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

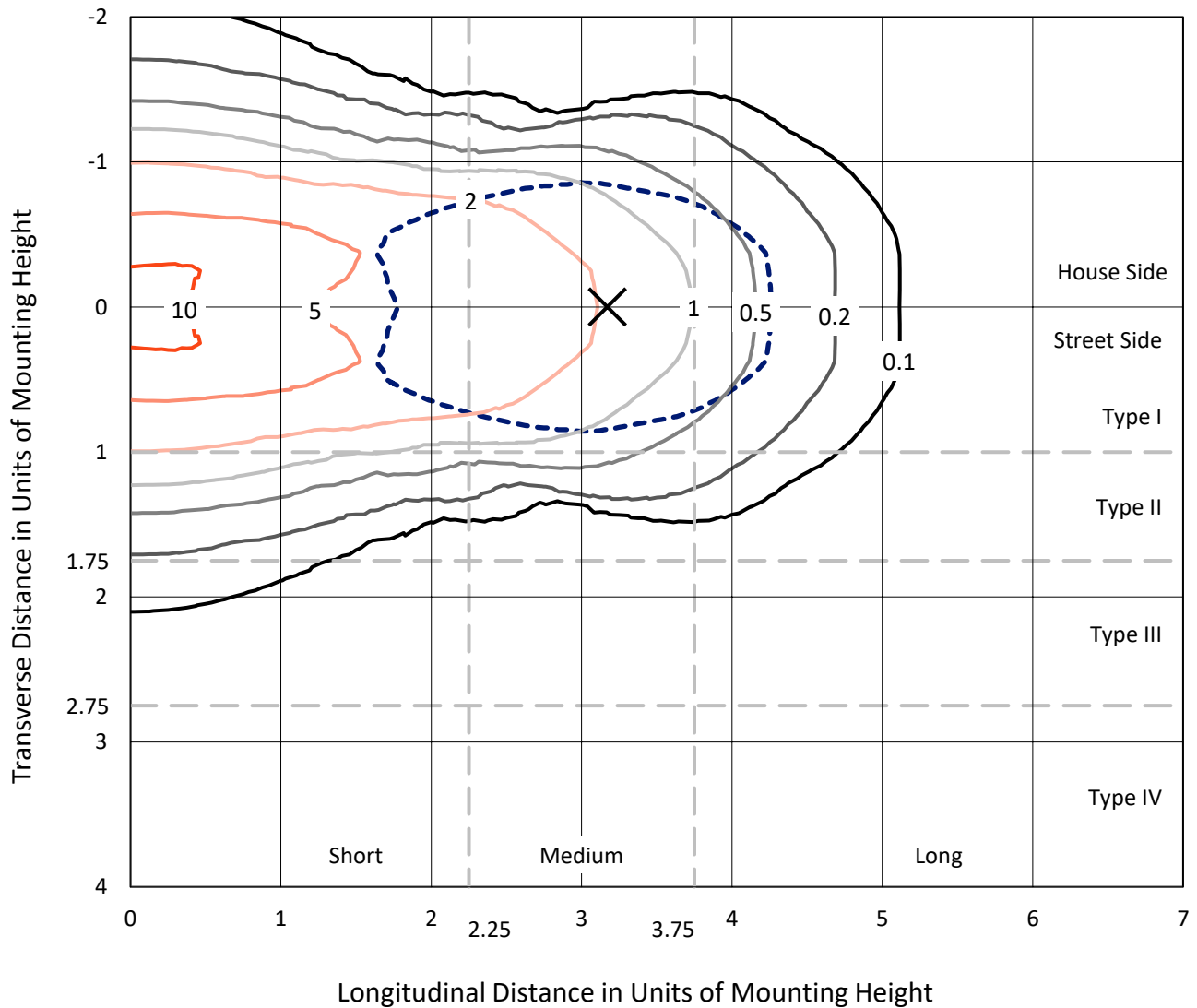
Lumens per Lamp: N/A  
Luminaire Lumens: 37942 lumens  
Efficiency: N/A  
Efficacy: 126.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 300.9  
Input Voltage (V): 120.0  
Input Current (Ain): 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

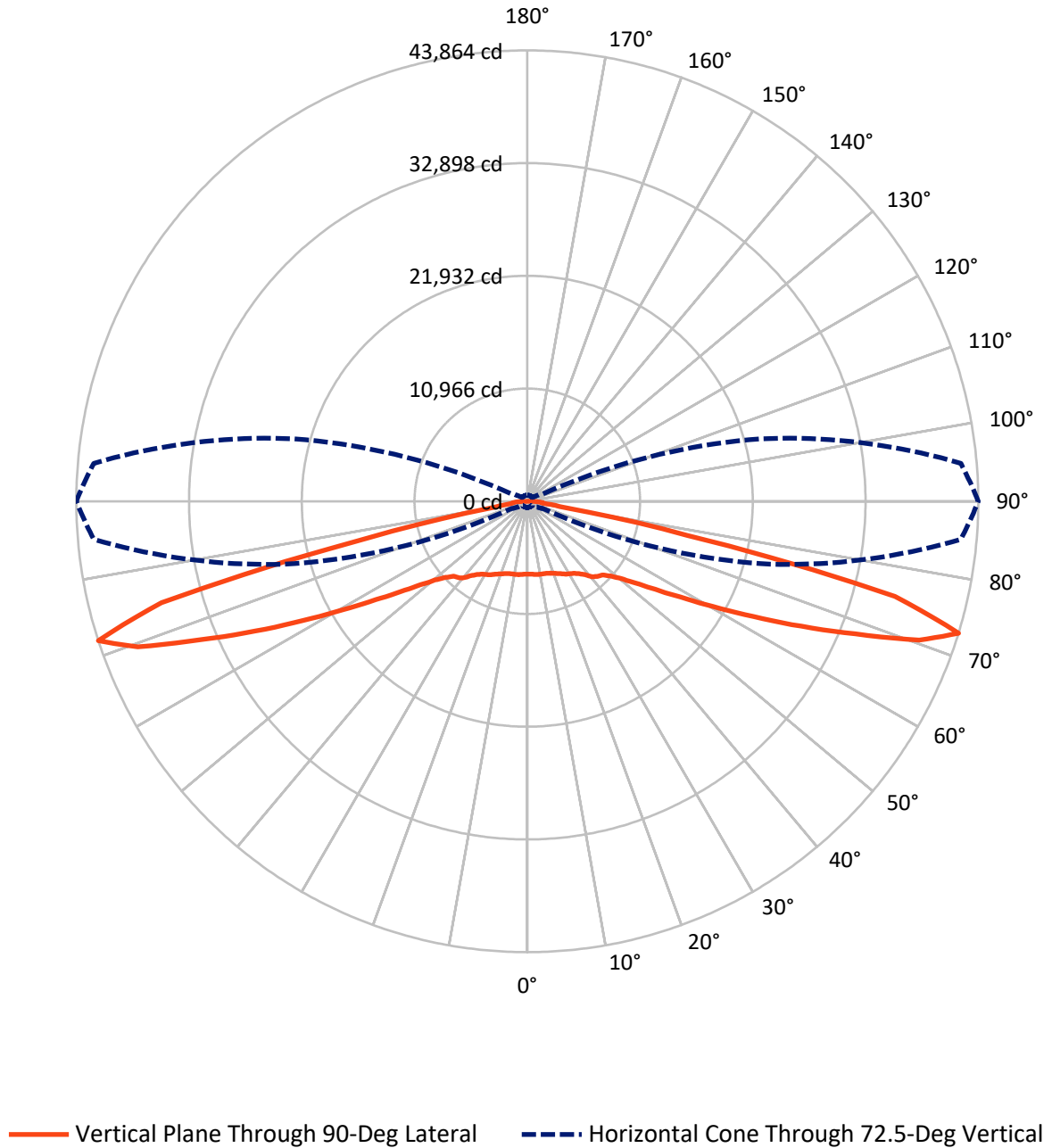
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	18971.0	0.0	18971.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	18971.0	0.0	18971.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	37942.0	0.0	37942.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	687.4	1.8
10°-20°	2101.9	5.5
20°-30°	3504.8	9.2
30°-40°	4820.2	12.7
40°-50°	5886.8	15.5
50°-60°	6808.7	17.9
60°-70°	8118.2	21.4
70°-80°	5666.0	14.9
80°-90°	348.0	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°	37942.0	100.0
0°-180°	37942.0	100.0

**Coefficient of Utilization**



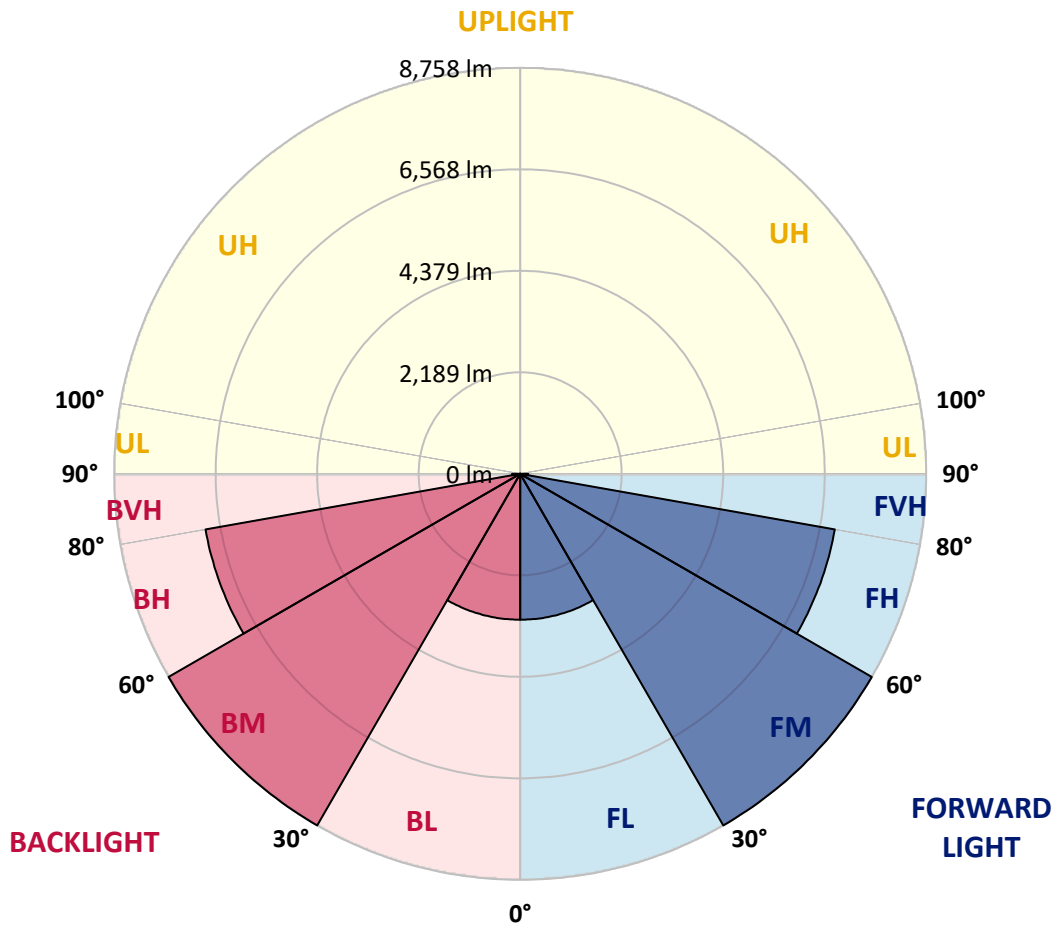
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3147.1	8.3			
FM (30°-60°)	8757.8	23.1			
FH (60°-80°)	6892.1	18.2			G3/7500
FVH (80°-90°)	174.0	0.5			G2/225
BL (0°-30°)	3147.1	8.3	B4/5000		
BM (30°-60°)	8757.8	23.1	B5		
BH (60°-80°)	6892.1	18.2	B5		G5
BVH (80°-90°)	174.0	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°	7089.9	7089.9	7089.9	7089.9	7089.9	7089.9	7089.9	7089.9	7089.9	7089.9	7089.9
2.5°	7095.9	7104.0	7104.0	7097.9	7112.0	7099.9	7099.9	7093.9	7099.9	7093.9	7093.9
5°	7132.2	7142.3	7146.3	7144.3	7162.5	7152.4	7152.4	7144.3	7146.3	7140.3	7140.3
7.5°	7200.8	7214.9	7222.9	7233.0	7259.2	7247.1	7239.1	7214.9	7204.8	7188.7	7188.7
10°	7222.9	7239.1	7265.3	7317.7	7378.2	7380.2	7356.0	7295.5	7249.2	7212.9	7206.8
12.5°	7154.4	7176.6	7231.0	7337.9	7473.0	7527.4	7489.1	7388.3	7297.6	7233.0	7222.9
15°	7067.7	7091.9	7174.6	7335.9	7535.5	7662.5	7658.5	7525.4	7380.2	7279.4	7263.3
17.5°	6932.6	6956.8	7075.7	7301.6	7583.9	7793.6	7850.1	7712.9	7509.3	7374.2	7352.0
20°	6688.6	6710.8	6876.1	7192.7	7600.0	7932.7	8079.9	7959.0	7704.9	7521.4	7487.1
22.5°	6372.0	6406.3	6599.9	7005.2	7561.7	8077.9	8342.1	8259.4	7932.7	7678.7	7632.3
25°	6033.2	6069.5	6295.4	6775.3	7462.9	8182.8	8652.6	8600.2	8190.8	7874.3	7809.7
27.5°	5740.9	5779.2	6025.2	6547.4	7309.7	8223.1	8959.1	8985.3	8503.4	8090.0	8021.5
30°	5511.0	5547.3	5809.4	6363.9	7112.0	8182.8	9227.3	9408.8	8822.0	8277.6	8178.8
32.5°	5258.9	5305.3	5581.6	6140.1	6878.1	8086.0	9461.2	9866.5	9191.0	8479.2	8354.2
35°	4940.3	4982.7	5273.0	5833.6	6571.6	7930.7	9656.8	10374.7	9719.3	8785.7	8646.6
37.5°	4553.2	4593.5	4881.8	5450.5	6267.1	7712.9	9806.0	10947.3	10348.5	9227.3	9041.8
40°	4164.0	4202.3	4472.5	5023.0	5902.2	7434.7	9858.5	11507.9	11070.3	9834.3	9636.6
42.5°	3807.1	3841.4	4089.4	4601.6	5492.8	7079.8	9789.9	11995.9	11717.6	10257.7	10003.6
45°	3478.4	3508.6	3728.4	4206.3	5067.4	6648.3	9584.2	12520.2	12487.9	10560.2	10217.4
47.5°	3103.3	3133.6	3361.4	3823.2	4641.9	6142.1	9235.4	13036.4	13558.7	11245.8	10850.6
50°	2645.6	2671.8	2905.7	3381.6	4200.3	5603.7	8751.4	13441.7	14909.7	12284.3	11788.2
52.5°	2103.2	2131.4	2359.3	2835.1	3676.0	5025.0	8114.2	13705.9	16470.4	13800.6	13189.6
55°	1564.8	1584.9	1782.5	2210.0	3026.7	4365.6	7315.7	13780.5	18240.9	15873.6	15109.3
57.5°	1135.3	1147.4	1274.4	1593.0	2294.7	3540.9	6345.8	13586.9	20348.1	18531.2	17569.4
60°	919.5	923.5	961.9	1103.0	1595.0	2609.3	5174.2	12921.5	22634.7	21957.2	20745.3
62.5°	834.8	834.8	844.9	883.2	1078.8	1722.1	3756.7	11542.2	25086.7	26286.5	24663.3
65°	776.3	776.3	780.4	798.5	850.9	1097.0	2371.4	9295.9	27153.6	31357.9	29305.2
67.5°	723.9	725.9	723.9	730.0	760.2	810.6	1375.2	6420.4	28266.7	36612.8	34396.7
70°	669.5	673.5	663.4	663.4	687.6	689.6	861.0	3520.7	27343.2	41016.8	40434.0
72.5°	604.9	611.0	594.9	590.8	609.0	600.9	647.3	1689.8	23475.6	42331.5	43864.0
75°	548.5	556.5	520.2	510.2	510.2	504.1	526.3	867.1	15236.3	34531.8	36935.4
77.5°	498.1	514.2	455.7	423.5	415.4	397.2	429.5	530.3	6664.4	16212.3	15875.6
80°	411.4	433.5	375.1	336.7	322.6	302.5	338.8	371.0	1982.2	3764.7	3605.4
82.5°	306.5	316.6	266.2	240.0	227.9	213.7	254.1	258.1	645.3	1332.9	1506.3
85°	195.6	199.6	163.3	141.2	135.1	129.1	161.3	141.2	246.0	980.0	1423.6
87.5°	68.6	78.6	62.5	56.5	60.5	50.4	74.6	42.3	68.6	691.6	857.0
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)