

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: P885105

Luminaire Tested: **NAV-SB6B-727-U-T1**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P885105  
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-SB6B-727-U-T1  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

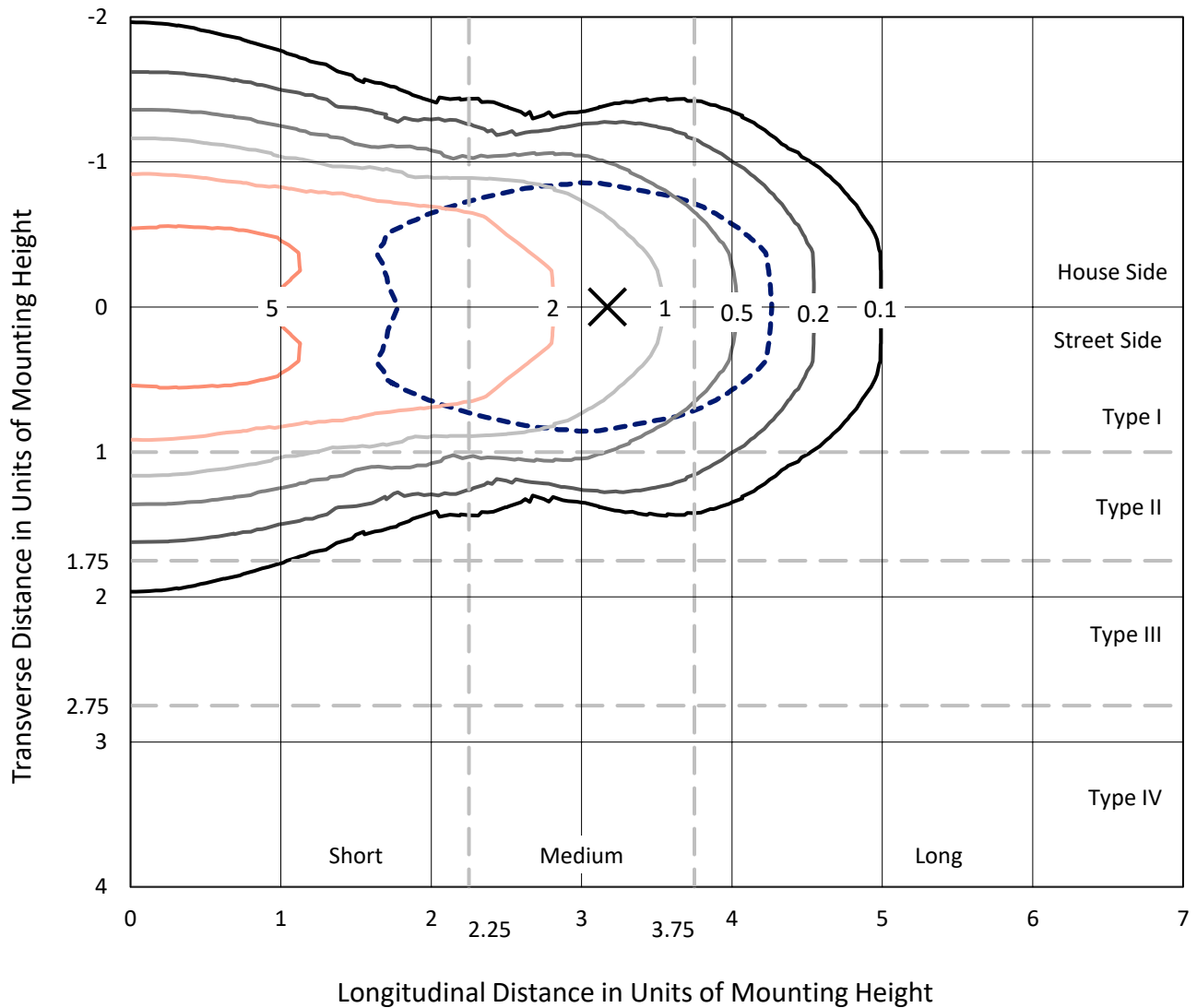
Lumens per Lamp: N/A  
Luminaire Lumens: 30642 lumens  
Efficiency: N/A  
Efficacy: 139.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 220.4  
Input Voltage (V): 120.0  
Input Current (Ain): 1.838  
Voltage Rise (V): NR  
Power Factor: 0.995  
Total Harmonic Distortion (THDi): 8.657  
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

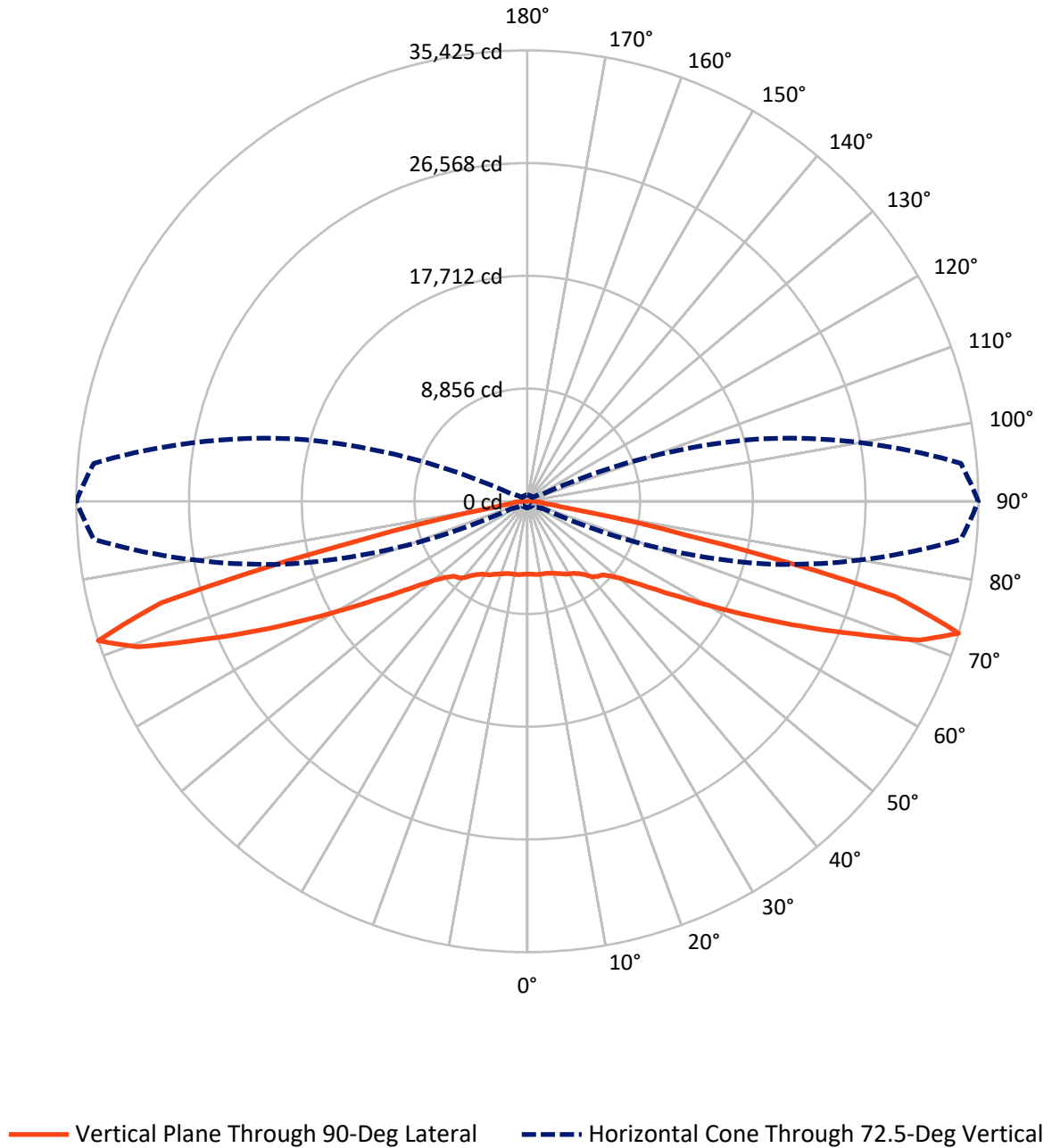
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 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	15321.0	0.0	15321.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	15321.0	0.0	15321.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	30642.0	0.0	30642.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	555.2	1.8
10°-20°	1697.5	5.5
20°-30°	2830.5	9.2
30°-40°	3892.8	12.7
40°-50°	4754.2	15.5
50°-60°	5498.7	17.9
60°-70°	6556.3	21.4
70°-80°	4575.9	14.9
80°-90°	281.1	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°	30642.0	100.0
0°-180°	30642.0	100.0

**Coefficient of Utilization**



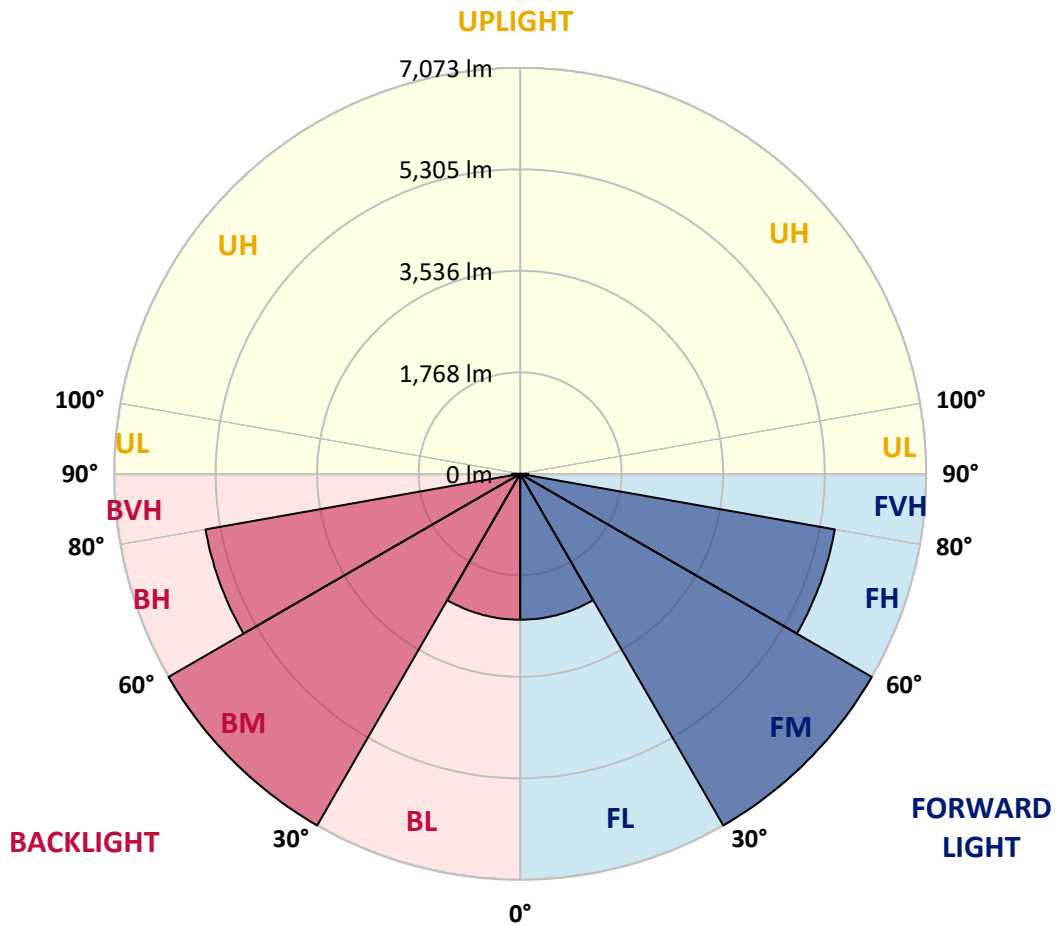
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2541.6	8.3			
FM (30°-60°)	7072.8	23.1			
FH (60°-80°)	5566.1	18.2			G3/7500
FVH (80°-90°)	140.5	0.5			G2/225
BL (0°-30°)	2541.6	8.3	B4/5000		
BM (30°-60°)	7072.8	23.1	B4/8500		
BH (60°-80°)	5566.1	18.2	B5		G5
BVH (80°-90°)	140.5	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°	5725.8	5725.8	5725.8	5725.8	5725.8	5725.8	5725.8	5725.8	5725.8	5725.8	5725.8
2.5°	5730.7	5737.2	5737.2	5732.3	5743.7	5733.9	5733.9	5729.0	5733.9	5729.0	5729.0
5°	5760.0	5768.1	5771.4	5769.8	5784.4	5776.3	5776.3	5769.8	5771.4	5766.5	5766.5
7.5°	5815.3	5826.7	5833.3	5841.4	5862.6	5852.8	5846.3	5826.7	5818.6	5805.6	5805.6
10°	5833.3	5846.3	5867.5	5909.8	5958.7	5960.3	5940.7	5891.9	5854.4	5825.1	5820.2
12.5°	5777.9	5795.8	5839.8	5926.1	6035.2	6079.2	6048.2	5966.8	5893.5	5841.4	5833.3
15°	5707.9	5727.4	5794.2	5924.5	6085.7	6188.3	6185.0	6077.5	5960.3	5878.9	5865.8
17.5°	5598.8	5618.3	5714.4	5896.8	6124.8	6294.1	6339.7	6229.0	6064.5	5955.4	5937.5
20°	5401.7	5419.6	5553.2	5808.8	6137.8	6406.5	6525.4	6427.7	6222.5	6074.3	6046.6
22.5°	5146.0	5173.7	5330.1	5657.4	6106.8	6523.7	6737.1	6670.3	6406.5	6201.3	6163.8
25°	4872.5	4901.8	5084.2	5471.7	6027.1	6608.4	6987.9	6945.5	6614.9	6359.3	6307.2
27.5°	4636.3	4667.3	4865.9	5287.7	5903.3	6641.0	7235.4	7256.6	6867.4	6533.5	6478.1
30°	4450.7	4480.0	4691.7	5139.5	5743.7	6608.4	7452.0	7598.5	7124.7	6685.0	6605.2
32.5°	4247.1	4284.6	4507.7	4958.8	5554.8	6530.3	7640.9	7968.2	7422.7	6847.8	6746.8
35°	3989.8	4024.0	4258.5	4711.2	5307.3	6404.9	7798.9	8378.6	7849.3	7095.3	6983.0
37.5°	3677.1	3709.7	3942.6	4401.8	5061.4	6229.0	7919.4	8841.1	8357.4	7452.0	7302.2
40°	3362.8	3393.8	3612.0	4056.6	4766.6	6004.3	7961.7	9293.8	8940.4	7942.2	7782.6
42.5°	3074.6	3102.3	3302.6	3716.2	4436.0	5717.6	7906.3	9687.9	9463.2	8284.1	8079.0
45°	2809.2	2833.6	3011.1	3397.0	4092.4	5369.1	7740.2	10111.3	10085.3	8528.4	8251.6
47.5°	2506.3	2530.7	2714.7	3087.6	3748.8	4960.4	7458.5	10528.2	10950.0	9082.1	8762.9
50°	2136.6	2157.8	2346.7	2731.0	3392.2	4525.6	7067.7	10855.5	12041.1	9920.8	9520.2
52.5°	1698.5	1721.3	1905.3	2289.7	2968.7	4058.2	6553.1	11068.9	13301.5	11145.4	10652.0
55°	1263.7	1280.0	1439.6	1784.8	2444.4	3525.7	5908.2	11129.1	14731.3	12819.5	12202.3
57.5°	916.8	926.6	1029.2	1286.5	1853.2	2859.6	5124.9	10972.8	16433.1	14965.9	14189.1
60°	742.6	745.8	776.8	890.8	1288.1	2107.3	4178.7	10435.4	18279.8	17732.7	16753.9
62.5°	674.2	674.2	682.3	713.3	871.2	1390.7	3033.9	9321.5	20260.1	21229.0	19918.1
65°	627.0	627.0	630.2	644.9	687.2	885.9	1915.1	7507.4	21929.3	25324.7	23666.9
67.5°	584.6	586.3	584.6	589.5	613.9	654.7	1110.6	5185.1	22828.2	29568.5	27778.8
70°	540.7	543.9	535.8	535.8	555.3	556.9	695.4	2843.3	22082.4	33125.2	32654.5
72.5°	488.5	493.4	480.4	477.1	491.8	485.3	522.7	1364.7	18958.9	34187.0	35424.6
75°	443.0	449.5	420.2	412.0	412.0	407.1	425.0	700.3	12304.9	27887.9	29829.1
77.5°	402.2	415.3	368.0	342.0	335.5	320.8	346.9	428.3	5382.2	13093.1	12821.1
80°	332.2	350.1	302.9	272.0	260.6	244.3	273.6	299.6	1600.8	3040.4	2911.7
82.5°	247.5	255.7	215.0	193.8	184.0	172.6	205.2	208.4	521.1	1076.4	1216.5
85°	158.0	161.2	131.9	114.0	109.1	104.2	130.3	114.0	198.7	791.4	1149.7
87.5°	55.4	63.5	50.5	45.6	48.9	40.7	60.3	34.2	55.4	558.6	692.1
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)