

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: P883405

Luminaire Tested: **NAV-SB3D-727-U-T1**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P883405  
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-SB3D-727-U-T1  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

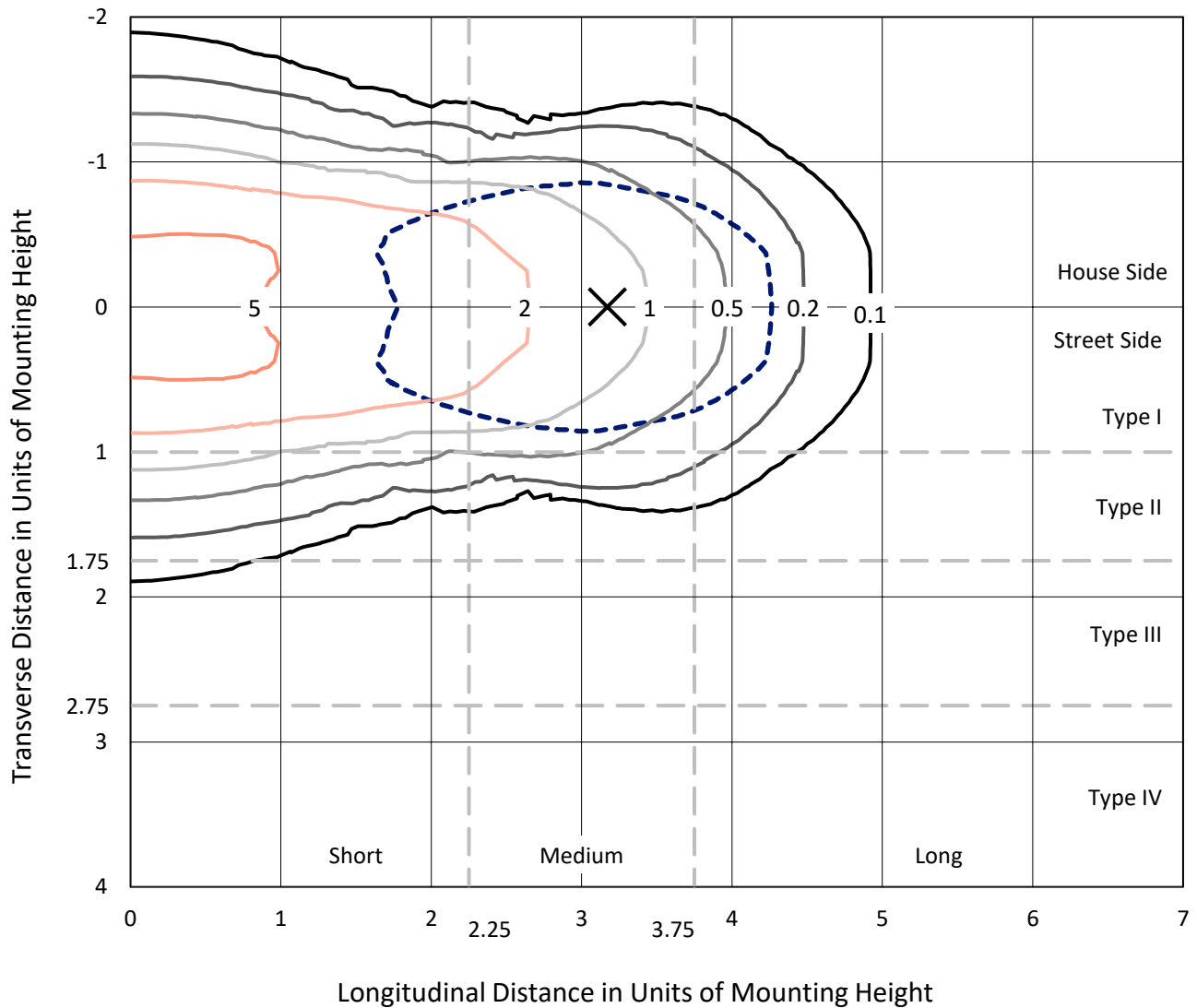
Lumens per Lamp: N/A  
Luminaire Lumens: 27364 lumens  
Efficiency: N/A  
Efficacy: 125.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 218.1  
Input Voltage (V): 120.0  
Input Current (Ain): 1.84  
Voltage Rise (V): NR  
Power Factor: 0.998  
Total Harmonic Distortion (THDi): 2.542  
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

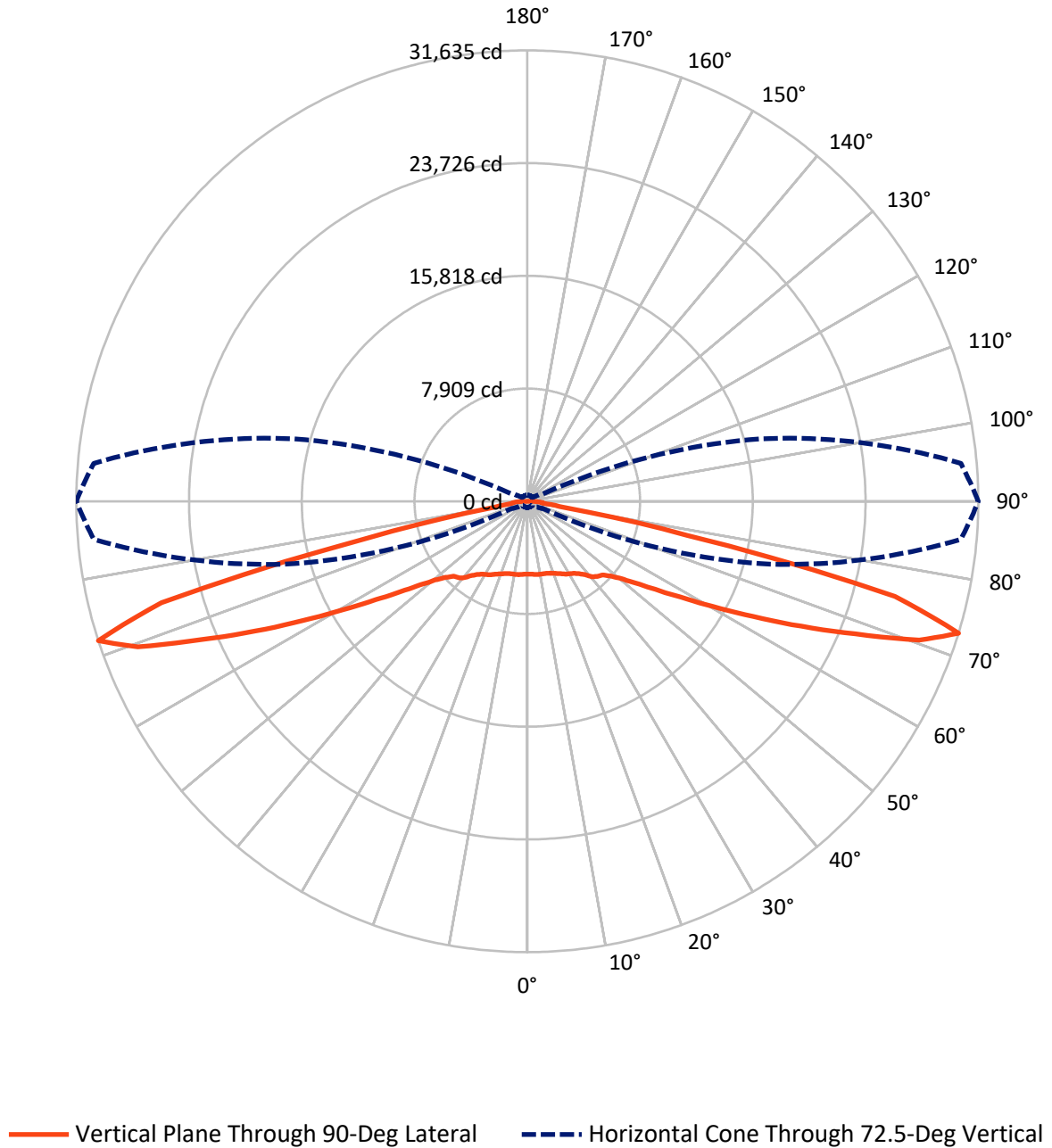
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 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	13682.0	0.0	13682.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	13682.0	0.0	13682.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	27364.0	0.0	27364.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	495.8	1.8
10°-20°	1515.9	5.5
20°-30°	2527.7	9.2
30°-40°	3476.4	12.7
40°-50°	4245.6	15.5
50°-60°	4910.5	17.9
60°-70°	5854.9	21.4
70°-80°	4086.3	14.9
80°-90°	251.0	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°	27364.0	100.0
0°-180°	27364.0	100.0

**Coefficient of Utilization**



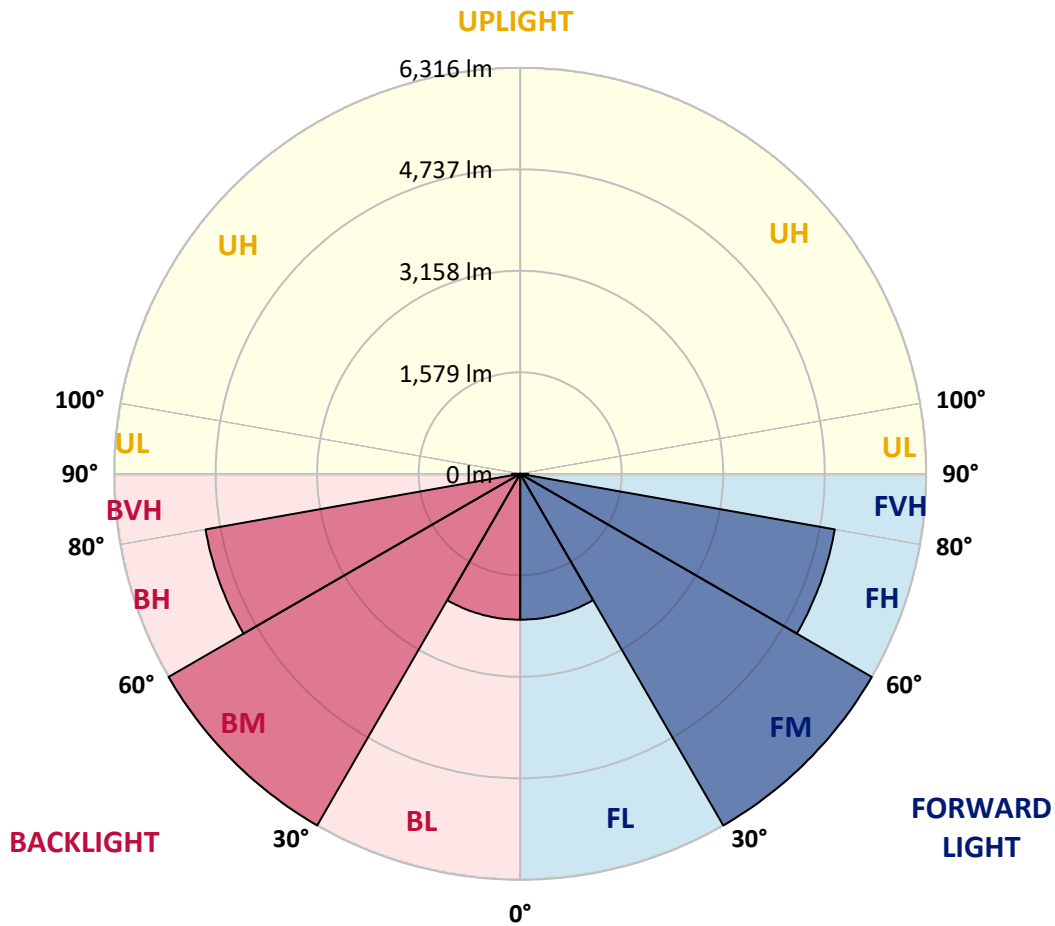
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2269.7	8.3			
FM (30°-60°)	6316.2	23.1			
FH (60°-80°)	4970.6	18.2			G2/5000
FVH (80°-90°)	125.5	0.5			G2/225
BL (0°-30°)	2269.7	8.3	B3/2500		
BM (30°-60°)	6316.2	23.1	B4/8500		
BH (60°-80°)	4970.6	18.2	B4/5000		G4/5000
BVH (80°-90°)	125.5	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**

Type I Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5113.3	5113.3	5113.3	5113.3	5113.3	5113.3	5113.3	5113.3	5113.3	5113.3	5113.3
2.5°	5117.6	5123.4	5123.4	5119.1	5129.2	5120.5	5120.5	5116.2	5120.5	5116.2	5116.2
5°	5143.8	5151.1	5154.0	5152.5	5165.6	5158.3	5158.3	5152.5	5154.0	5149.6	5149.6
7.5°	5193.2	5203.4	5209.2	5216.5	5235.4	5226.7	5220.9	5203.4	5196.1	5184.5	5184.5
10°	5209.2	5220.9	5239.8	5277.6	5321.2	5322.7	5305.2	5261.6	5228.1	5202.0	5197.6
12.5°	5159.8	5175.8	5215.1	5292.1	5389.6	5428.8	5401.2	5328.5	5263.0	5216.5	5209.2
15°	5097.3	5114.7	5174.3	5290.7	5434.6	5526.3	5523.4	5427.4	5322.7	5250.0	5238.3
17.5°	4999.8	5017.3	5103.1	5266.0	5469.6	5620.8	5661.5	5562.6	5415.7	5318.3	5302.3
20°	4823.9	4839.8	4959.1	5187.4	5481.2	5721.1	5827.3	5740.0	5556.8	5424.5	5399.7
22.5°	4595.5	4620.3	4759.9	5052.2	5453.6	5825.8	6016.4	5956.7	5721.1	5537.9	5504.5
25°	4351.2	4377.4	4540.3	4886.4	5382.3	5901.5	6240.3	6202.5	5907.3	5679.0	5632.4
27.5°	4140.3	4168.0	4345.4	4722.1	5271.8	5930.6	6461.4	6480.3	6132.7	5834.6	5785.1
30°	3974.6	4000.7	4189.8	4589.7	5129.2	5901.5	6654.8	6785.7	6362.5	5969.8	5898.6
32.5°	3792.8	3826.2	4025.5	4428.3	4960.6	5831.7	6823.5	7115.8	6628.6	6115.3	6025.1
35°	3563.0	3593.5	3802.9	4207.2	4739.5	5719.7	6964.6	7482.3	7009.6	6336.3	6236.0
37.5°	3283.8	3312.9	3520.8	3930.9	4519.9	5562.6	7072.2	7895.3	7463.4	6654.8	6521.0
40°	3003.1	3030.7	3225.6	3622.6	4256.7	5361.9	7110.0	8299.6	7984.0	7092.5	6950.0
42.5°	2745.7	2770.4	2949.3	3318.7	3961.5	5106.0	7060.5	8651.5	8450.8	7397.9	7214.7
45°	2508.6	2530.4	2689.0	3033.6	3654.6	4794.8	6912.2	9029.6	9006.4	7616.1	7368.8
47.5°	2238.1	2260.0	2424.3	2757.3	3347.8	4429.7	6660.6	9401.9	9778.6	8110.5	7825.5
50°	1908.0	1926.9	2095.6	2438.8	3029.3	4041.4	6311.6	9694.2	10753.0	8859.5	8501.7
52.5°	1516.8	1537.2	1701.5	2044.7	2651.2	3624.1	5852.0	9884.7	11878.6	9953.1	9512.5
55°	1128.5	1143.1	1285.6	1593.9	2182.9	3148.5	5276.1	9938.6	13155.4	11448.1	10896.9
57.5°	818.8	827.5	919.1	1148.9	1655.0	2553.7	4576.6	9798.9	14675.2	13364.8	12671.2
60°	663.2	666.1	693.7	795.5	1150.3	1881.8	3731.7	9319.0	16324.3	15835.7	14961.6
62.5°	602.1	602.1	609.3	637.0	778.0	1242.0	2709.3	8324.3	18092.7	18958.0	17787.3
65°	559.9	559.9	562.8	575.9	613.7	791.1	1710.2	6704.2	19583.3	22615.5	21135.1
67.5°	522.1	523.5	522.1	526.4	548.3	584.6	991.8	4630.4	20386.1	26405.4	24807.1
70°	482.8	485.7	478.5	478.5	495.9	497.4	621.0	2539.2	19720.1	29581.5	29161.2
72.5°	436.3	440.6	429.0	426.1	439.2	433.4	466.8	1218.7	16930.7	30529.7	31635.0
75°	395.6	401.4	375.2	367.9	367.9	363.6	379.6	625.3	10988.5	24904.6	26638.1
77.5°	359.2	370.8	328.7	305.4	299.6	286.5	309.8	382.5	4806.4	11692.4	11449.6
80°	296.7	312.7	270.5	242.9	232.7	218.1	244.3	267.6	1429.6	2715.1	2600.3
82.5°	221.1	228.3	192.0	173.1	164.3	154.2	183.2	186.1	465.4	961.3	1086.3
85°	141.1	144.0	117.8	101.8	97.4	93.1	116.3	101.8	177.4	706.8	1026.7
87.5°	49.4	56.7	45.1	40.7	43.6	36.4	53.8	30.5	49.4	498.8	618.1
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)