

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: P883485

Luminaire Tested: **NAV-SB3D-835-U-T1**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P883485  
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-835-U-T1  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

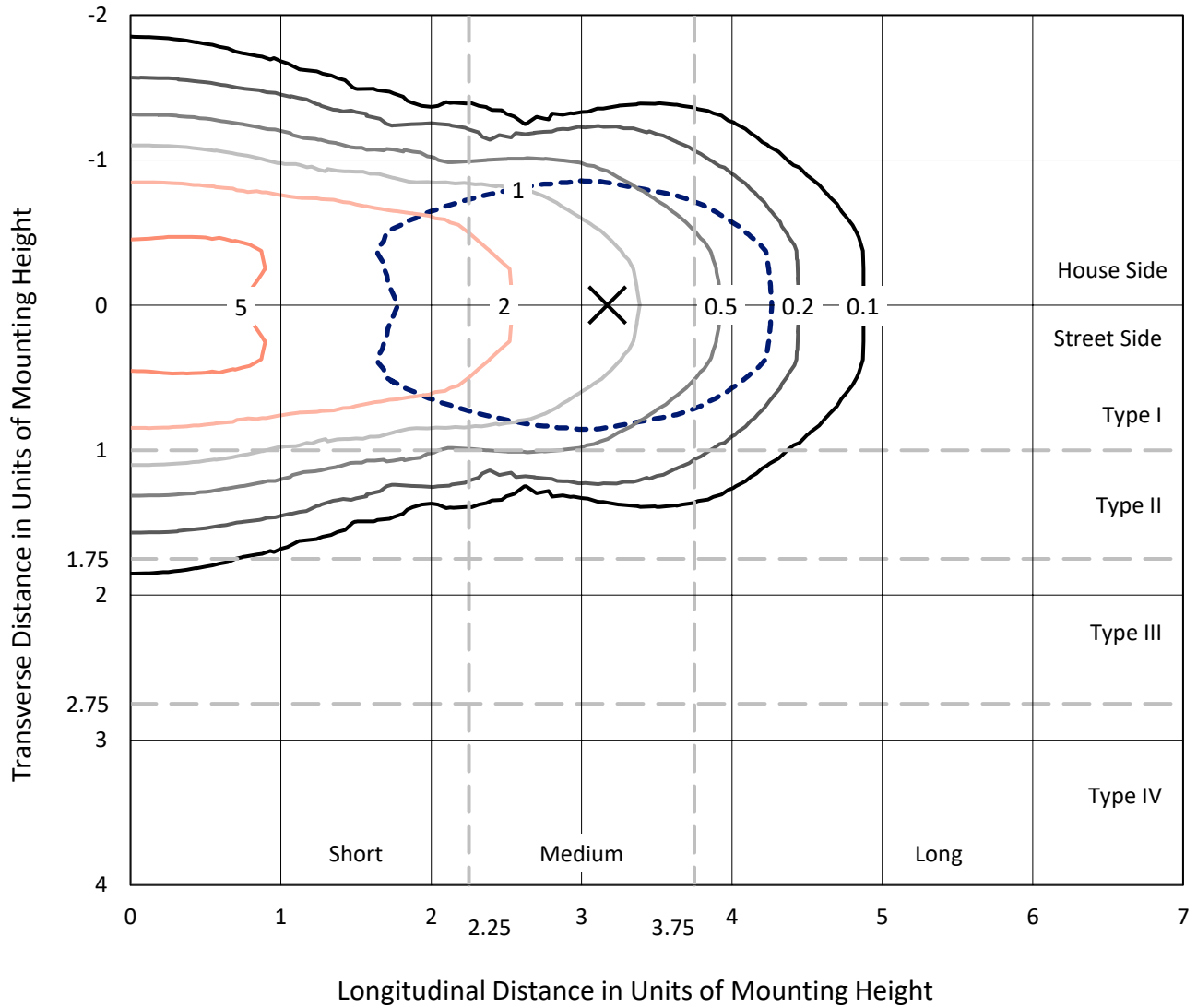
Lumens per Lamp: N/A  
Luminaire Lumens: 25477 lumens  
Efficiency: N/A  
Efficacy: 116.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 218.1  
Input Voltage (V): 120.0  
Input Current (Ain): 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

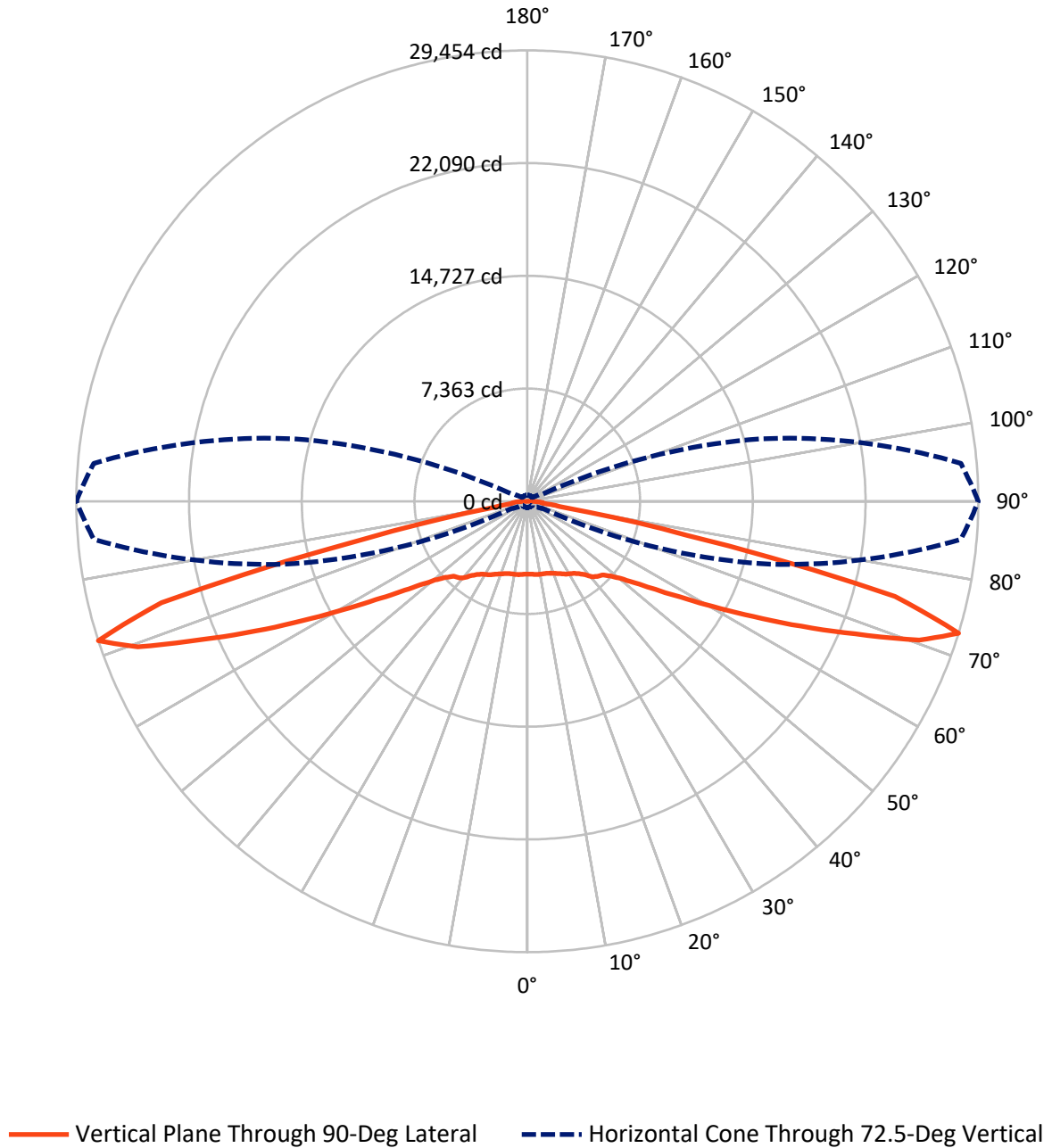
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 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	12738.5	0.0	12738.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	12738.5	0.0	12738.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	25477.0	0.0	25477.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	461.6	1.8
10°-20°	1411.4	5.5
20°-30°	2353.4	9.2
30°-40°	3236.6	12.7
40°-50°	3952.8	15.5
50°-60°	4571.8	17.9
60°-70°	5451.2	21.4
70°-80°	3804.5	14.9
80°-90°	233.7	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°	25477.0	100.0
0°-180°	25477.0	100.0



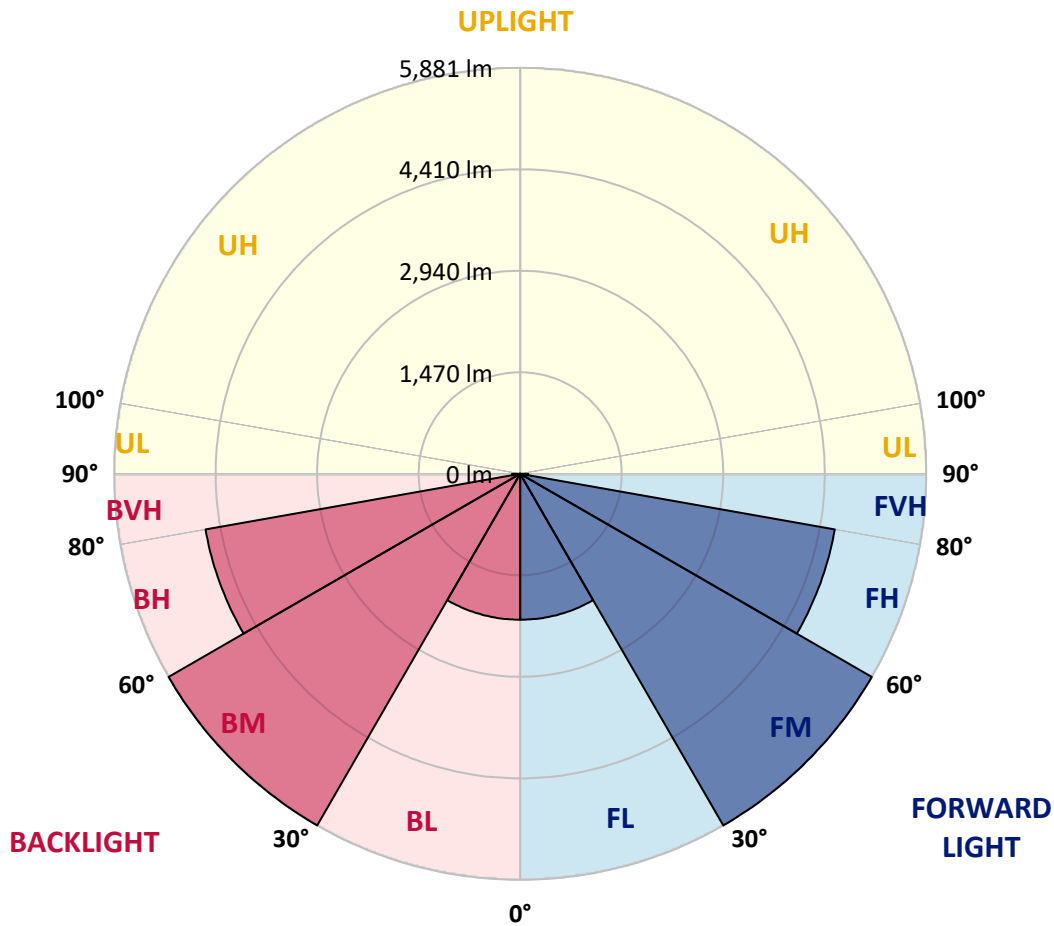
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2113.2	8.3			
FM (30°-60°)	5880.6	23.1			
FH (60°-80°)	4627.9	18.2			G2/5000
FVH (80°-90°)	116.8	0.5			G2/225
BL (0°-30°)	2113.2	8.3	B3/2500		
BM (30°-60°)	5880.6	23.1	B4/8500		
BH (60°-80°)	4627.9	18.2	B4/5000		G4/5000
BVH (80°-90°)	116.8	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°	4760.6	4760.6	4760.6	4760.6	4760.6	4760.6	4760.6	4760.6	4760.6	4760.6	4760.6
2.5°	4764.7	4770.1	4770.1	4766.1	4775.5	4767.4	4767.4	4763.4	4767.4	4763.4	4763.4
5°	4789.1	4795.9	4798.6	4797.2	4809.4	4802.6	4802.6	4797.2	4798.6	4794.5	4794.5
7.5°	4835.1	4844.6	4850.0	4856.8	4874.4	4866.3	4860.8	4844.6	4837.8	4827.0	4827.0
10°	4850.0	4860.8	4878.4	4913.6	4954.3	4955.6	4939.4	4898.8	4867.6	4843.2	4839.2
12.5°	4804.0	4818.9	4855.4	4927.2	5017.9	5054.5	5028.7	4961.0	4900.1	4856.8	4850.0
15°	4745.8	4762.0	4817.5	4925.8	5059.9	5145.2	5142.5	5053.1	4955.6	4887.9	4877.1
17.5°	4655.0	4671.3	4751.2	4902.8	5092.4	5233.2	5271.1	5179.0	5042.3	4951.6	4936.7
20°	4491.2	4506.1	4617.1	4829.7	5103.2	5326.6	5425.5	5344.2	5173.6	5050.4	5027.4
22.5°	4278.6	4301.6	4431.6	4703.8	5077.5	5424.1	5601.5	5546.0	5326.6	5156.0	5124.9
25°	4051.2	4075.5	4227.2	4549.4	5011.1	5494.5	5810.0	5774.8	5499.9	5287.4	5244.0
27.5°	3854.8	3880.5	4045.7	4396.4	4908.2	5521.6	6015.8	6033.4	5709.8	5432.2	5386.2
30°	3700.5	3724.8	3900.9	4273.2	4775.5	5494.5	6195.9	6317.7	5923.7	5558.1	5491.8
32.5°	3531.2	3562.4	3747.9	4122.9	4618.5	5429.5	6352.9	6625.1	6171.5	5693.5	5609.6
35°	3317.3	3345.7	3540.7	3917.1	4412.7	5325.3	6484.3	6966.3	6526.3	5899.4	5805.9
37.5°	3057.3	3084.4	3278.0	3659.8	4208.2	5179.0	6584.5	7350.8	6948.7	6195.9	6071.3
40°	2796.0	2821.7	3003.2	3372.8	3963.1	4992.2	6619.7	7727.2	7433.4	6603.4	6470.7
42.5°	2556.3	2579.4	2745.9	3089.8	3688.3	4753.9	6573.6	8054.9	7868.1	6887.8	6717.2
45°	2335.6	2356.0	2503.5	2824.4	3402.6	4464.1	6435.5	8407.0	8385.3	7090.9	6860.7
47.5°	2083.8	2104.1	2257.1	2567.2	3116.9	4124.3	6201.3	8753.6	9104.3	7551.2	7285.8
50°	1776.4	1794.0	1951.1	2270.6	2820.4	3762.8	5876.3	9025.7	10011.4	8248.5	7915.5
52.5°	1412.2	1431.2	1584.2	1903.7	2468.3	3374.2	5448.5	9203.1	11059.4	9266.7	8856.5
55°	1050.7	1064.2	1196.9	1484.0	2032.3	2931.4	4912.3	9253.2	12248.2	10658.6	10145.5
57.5°	762.3	770.4	855.7	1069.7	1540.8	2377.6	4261.0	9123.2	13663.2	12443.2	11797.4
60°	617.4	620.1	645.9	740.6	1071.0	1752.1	3474.4	8676.4	15198.6	14743.7	13929.9
62.5°	560.6	560.6	567.3	593.0	724.4	1156.3	2522.5	7750.3	16845.1	17650.7	16560.7
65°	521.3	521.3	524.0	536.2	571.4	736.6	1592.3	6241.9	18232.9	21056.0	19677.6
67.5°	486.1	487.4	486.1	490.1	510.5	544.3	923.4	4311.1	18980.3	24584.5	23096.4
70°	449.5	452.2	445.5	445.5	461.7	463.1	578.2	2364.1	18360.2	27541.6	27150.3
72.5°	406.2	410.3	399.4	396.7	408.9	403.5	434.6	1134.6	15763.2	28424.4	29453.5
75°	368.3	373.7	349.3	342.6	342.6	338.5	353.4	582.2	10230.8	23187.2	24801.1
77.5°	334.4	345.3	306.0	284.3	278.9	266.7	288.4	356.1	4475.0	10886.1	10660.0
80°	276.2	291.1	251.8	226.1	216.6	203.1	227.5	249.1	1331.0	2527.9	2420.9
82.5°	205.8	212.6	178.7	161.1	153.0	143.5	170.6	173.3	433.3	895.0	1011.4
85°	131.3	134.0	109.7	94.8	90.7	86.7	108.3	94.8	165.2	658.0	955.9
87.5°	46.0	52.8	42.0	37.9	40.6	33.8	50.1	28.4	46.0	464.4	575.4
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)