

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: P884445

Luminaire Tested: **NAV-SB5B-735-U-T1**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P884445  
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-SB5B-735-U-T1  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

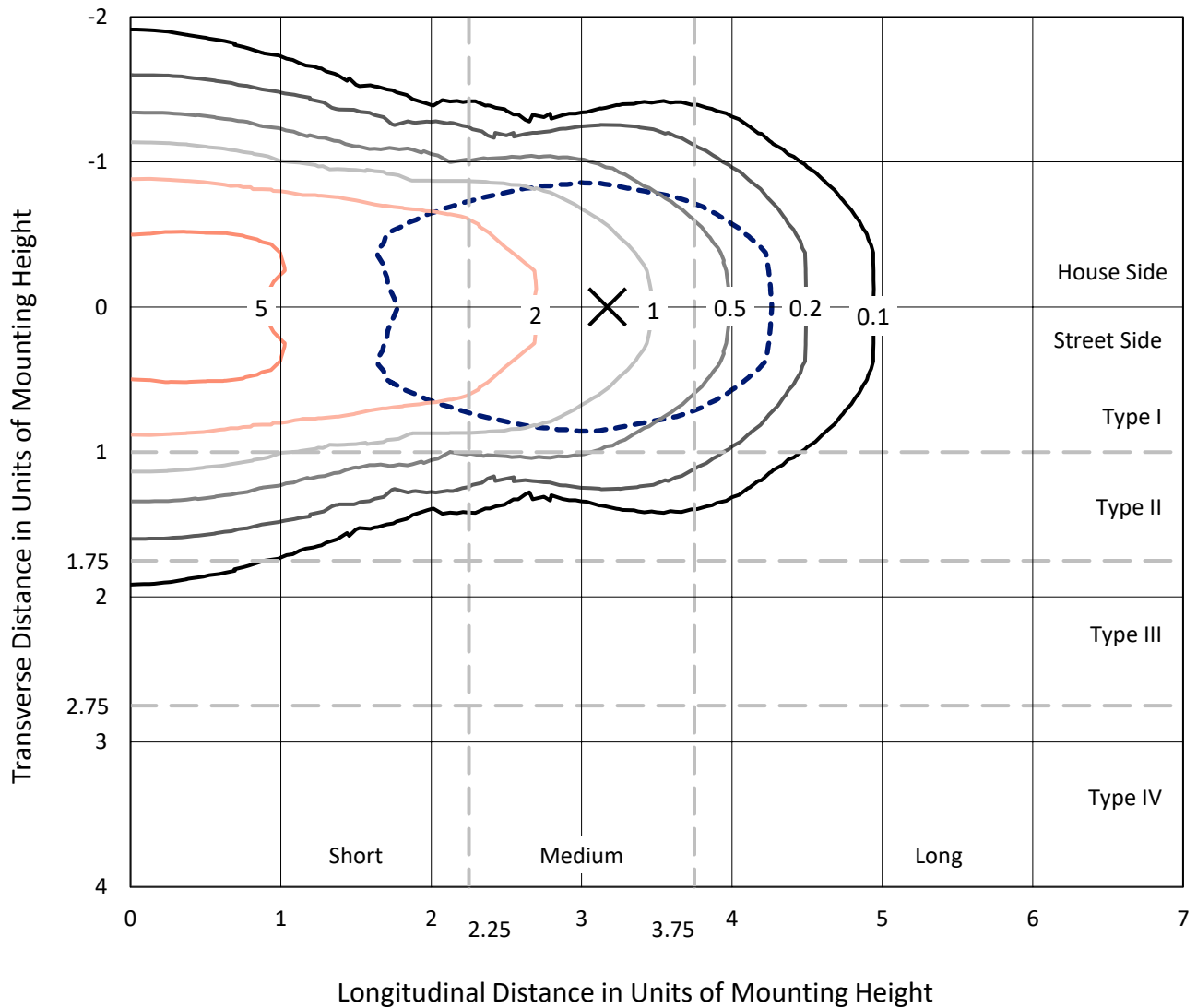
Lumens per Lamp: N/A  
Luminaire Lumens: 28267 lumens  
Efficiency: N/A  
Efficacy: 154.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 182.7  
Input Voltage (V): 120.0  
Input Current (Ain): 1.547  
Voltage Rise (V): NR  
Power Factor: 0.992  
Total Harmonic Distortion (THDi): 11.125  
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

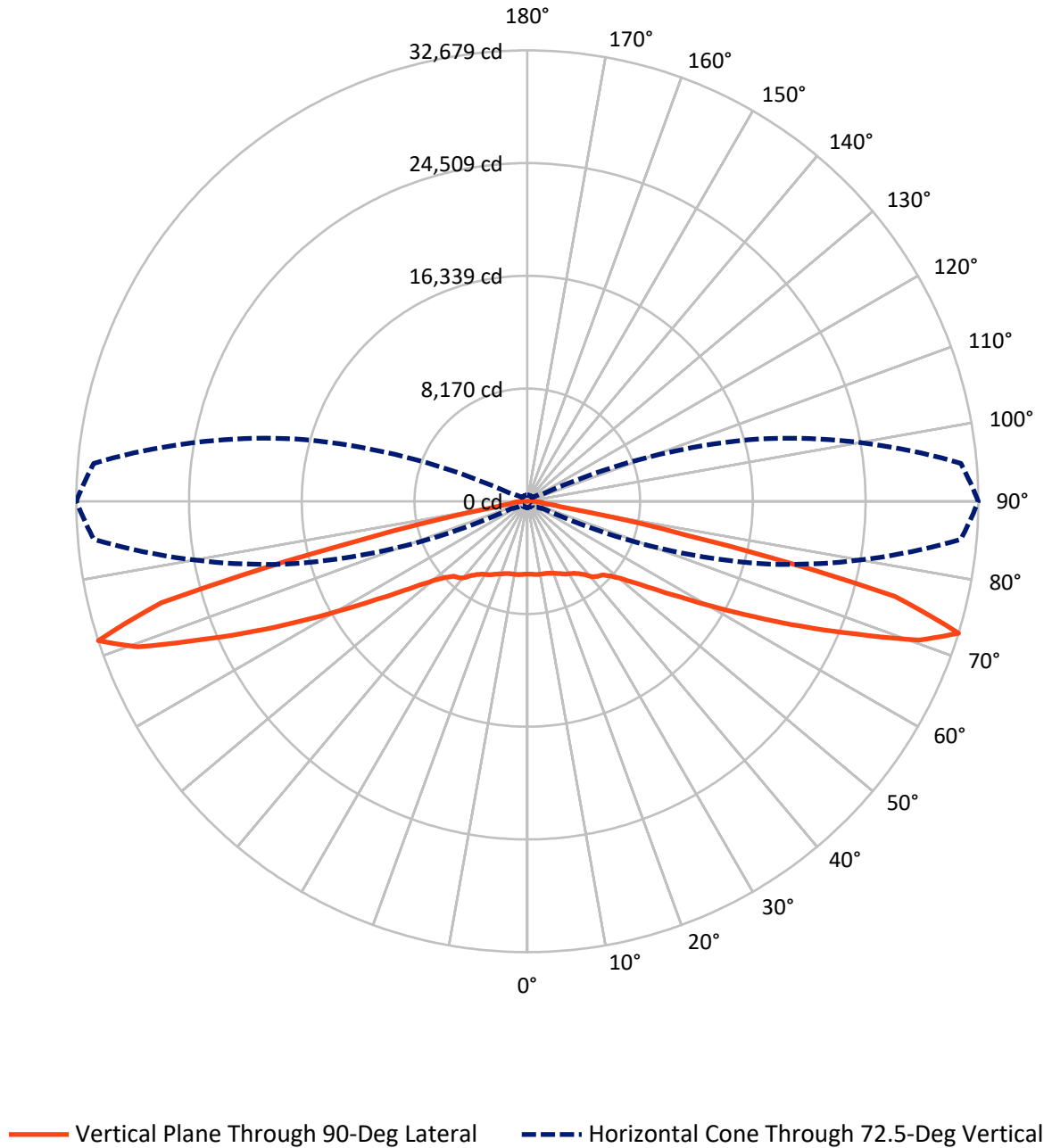
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 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	14133.5	0.0	14133.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	14133.5	0.0	14133.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	28267.0	0.0	28267.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	512.2	1.8
10°-20°	1566.0	5.5
20°-30°	2611.1	9.2
30°-40°	3591.1	12.7
40°-50°	4385.7	15.5
50°-60°	5072.5	17.9
60°-70°	6048.1	21.4
70°-80°	4221.2	14.9
80°-90°	259.3	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°	28267.0	100.0
0°-180°	28267.0	100.0



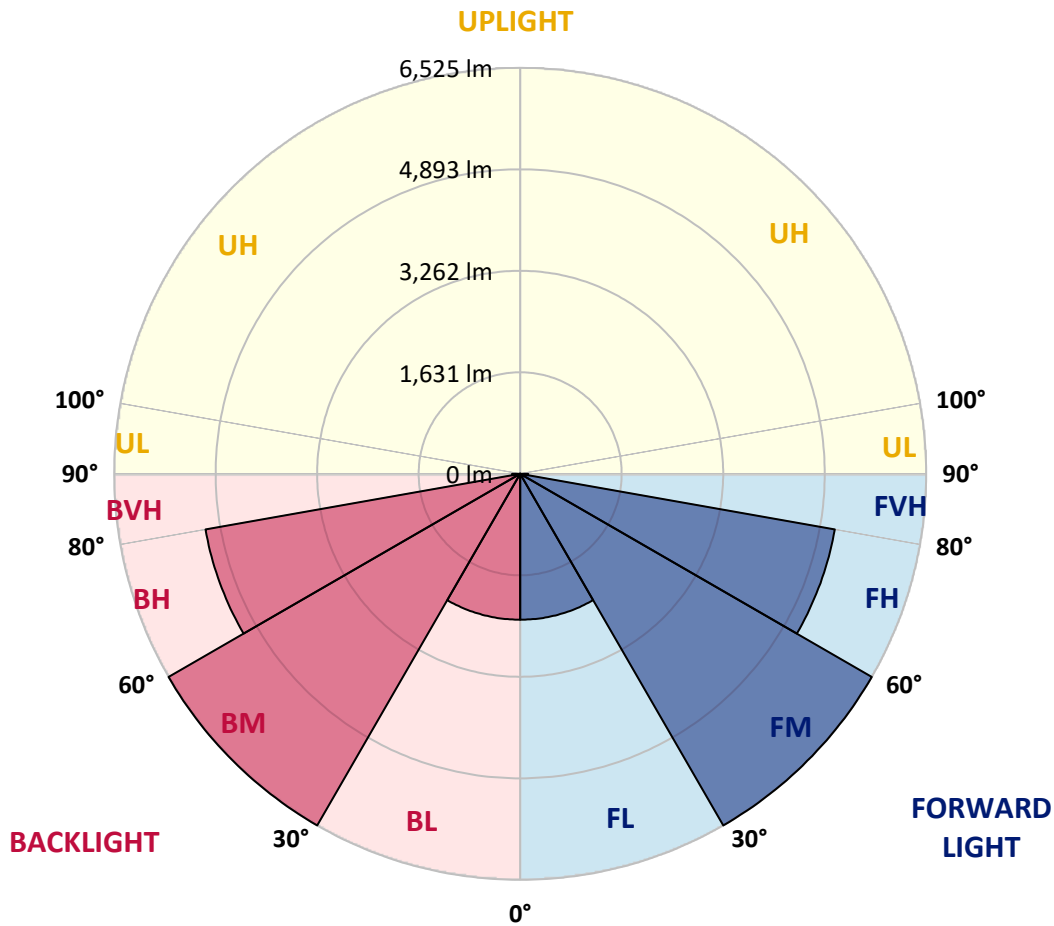
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2344.6	8.3			
FM (30°-60°)	6524.6	23.1			
FH (60°-80°)	5134.7	18.2			G3/7500
FVH (80°-90°)	129.6	0.5			G2/225
BL (0°-30°)	2344.6	8.3	B3/2500		
BM (30°-60°)	6524.6	23.1	B4/8500		
BH (60°-80°)	5134.7	18.2	B5		G5
BVH (80°-90°)	129.6	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°	5282.0	5282.0	5282.0	5282.0	5282.0	5282.0	5282.0	5282.0	5282.0	5282.0	5282.0
2.5°	5286.5	5292.5	5292.5	5288.0	5298.5	5289.5	5289.5	5285.0	5289.5	5285.0	5285.0
5°	5313.5	5321.0	5324.1	5322.5	5336.1	5328.6	5328.6	5322.5	5324.1	5319.5	5319.5
7.5°	5364.6	5375.1	5381.1	5388.6	5408.2	5399.2	5393.2	5375.1	5367.6	5355.6	5355.6
10°	5381.1	5393.2	5412.7	5451.7	5496.8	5498.3	5480.3	5435.2	5400.7	5373.6	5369.1
12.5°	5330.1	5346.6	5387.1	5466.8	5567.4	5608.0	5579.4	5504.3	5436.7	5388.6	5381.1
15°	5265.5	5283.5	5345.1	5465.3	5614.0	5708.6	5705.6	5606.5	5498.3	5423.2	5411.2
17.5°	5164.8	5182.8	5271.5	5439.7	5650.0	5806.3	5848.3	5746.2	5594.5	5493.8	5477.3
20°	4983.0	4999.6	5122.7	5358.6	5662.1	5909.9	6019.6	5929.5	5740.2	5603.5	5577.9
22.5°	4747.2	4772.7	4916.9	5218.9	5633.5	6018.1	6214.9	6153.3	5909.9	5720.7	5686.1
25°	4494.8	4521.8	4690.1	5047.6	5559.9	6096.2	6446.2	6407.2	6102.2	5866.4	5818.3
27.5°	4277.0	4305.5	4488.8	4877.9	5445.7	6126.3	6674.6	6694.1	6335.1	6027.1	5976.0
30°	4105.7	4132.7	4328.0	4741.2	5298.5	6096.2	6874.4	7009.6	6572.4	6166.8	6093.2
32.5°	3917.9	3952.5	4158.3	4574.4	5124.2	6024.1	7048.7	7350.6	6847.4	6317.1	6223.9
35°	3680.6	3712.1	3928.4	4346.1	4895.9	5908.4	7194.4	7729.2	7240.9	6545.4	6441.7
37.5°	3392.1	3422.2	3637.0	4060.6	4669.1	5746.2	7305.5	8155.8	7709.7	6874.4	6736.2
40°	3102.2	3130.7	3332.0	3742.2	4397.1	5538.9	7344.6	8573.5	8247.5	7326.6	7179.4
42.5°	2836.3	2861.8	3046.6	3428.2	4092.2	5274.5	7293.5	8937.0	8729.7	7642.1	7452.8
45°	2591.4	2614.0	2777.7	3133.7	3775.2	4953.0	7140.3	9327.6	9303.6	7867.4	7612.0
47.5°	2312.0	2334.5	2504.3	2848.3	3458.2	4575.9	6880.4	9712.2	10101.3	8378.2	8083.7
50°	1971.0	1990.5	2164.8	2519.3	3129.2	4174.8	6519.9	10014.1	11107.8	9151.8	8782.3
52.5°	1566.9	1587.9	1757.7	2112.2	2738.6	3743.7	6045.1	10210.9	12270.6	10281.5	9826.4
55°	1165.8	1180.8	1328.0	1646.5	2254.9	3252.4	5450.2	10266.5	13589.5	11825.9	11256.5
57.5°	845.8	854.8	949.4	1186.8	1709.6	2638.0	4727.6	10122.3	15159.4	13805.9	13089.3
60°	685.0	688.0	716.6	821.7	1188.3	1943.9	3854.8	9626.6	16863.0	16358.2	15455.4
62.5°	621.9	621.9	629.5	658.0	803.7	1282.9	2798.7	8599.0	18689.8	19583.6	18374.3
65°	578.4	578.4	581.4	594.9	634.0	817.2	1766.7	6925.5	20229.6	23361.8	21832.5
67.5°	539.3	540.8	539.3	543.8	566.4	603.9	1024.5	4783.2	21058.8	27276.7	25625.8
70°	498.8	501.8	494.2	494.2	512.3	513.8	641.5	2623.0	20370.8	30557.7	30123.6
72.5°	450.7	455.2	443.2	440.2	453.7	447.7	482.2	1258.9	17489.4	31537.2	32678.9
75°	408.6	414.6	387.6	380.1	380.1	375.6	392.1	646.0	11351.2	25726.4	27517.1
77.5°	371.1	383.1	339.5	315.5	309.5	295.9	320.0	395.1	4965.0	12078.3	11827.4
80°	306.5	323.0	279.4	250.9	240.4	225.3	252.4	276.4	1476.7	2804.7	2686.1
82.5°	228.3	235.9	198.3	178.8	169.8	159.2	189.3	192.3	480.7	993.0	1122.2
85°	145.7	148.7	121.7	105.2	100.7	96.1	120.2	105.2	183.3	730.1	1060.6
87.5°	51.1	58.6	46.6	42.1	45.1	37.6	55.6	31.5	51.1	515.3	638.5
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)