

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: P884455

Luminaire Tested: **NAV-SB5B-740-U-T1**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P884455  
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-740-U-T1  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

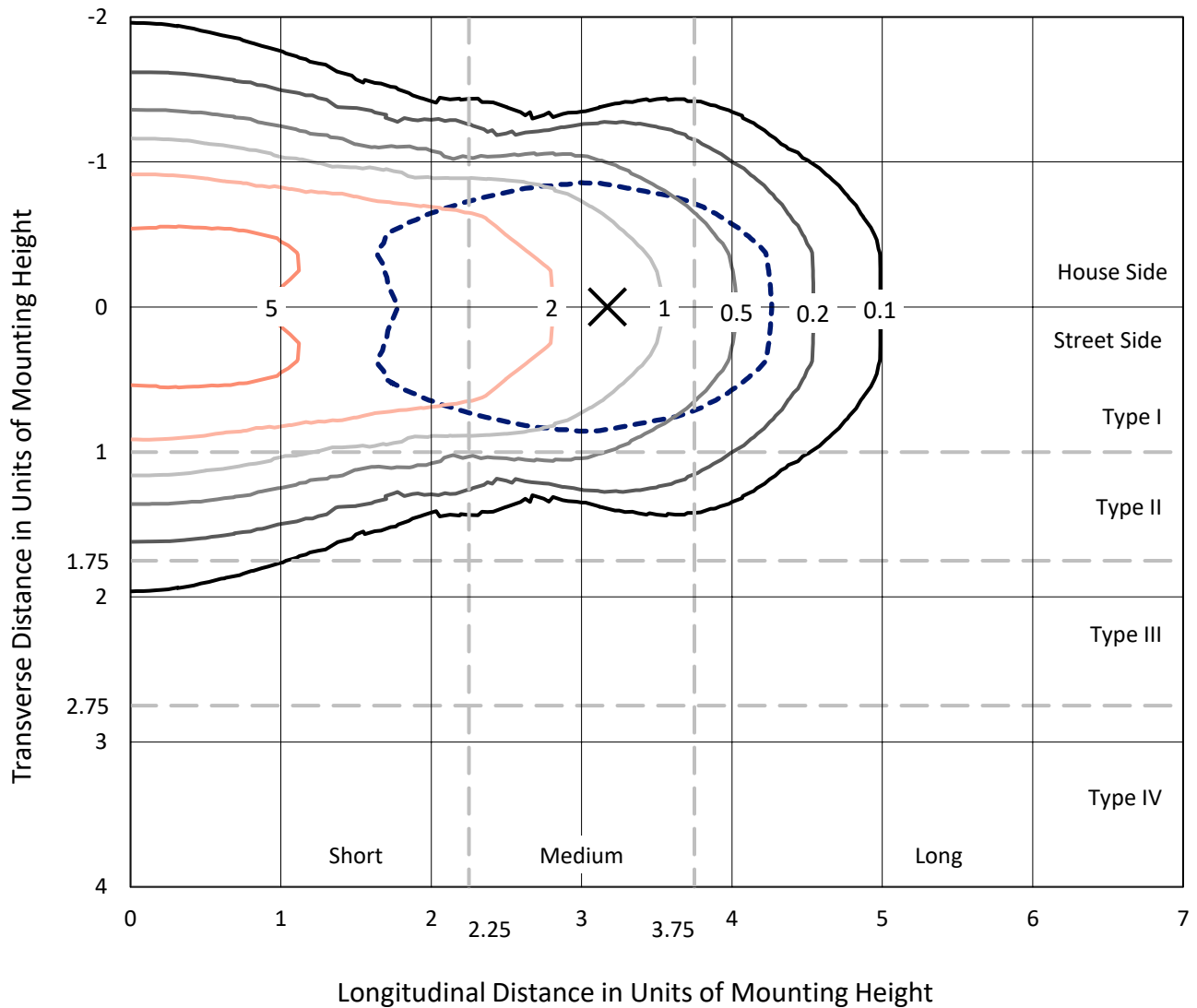
Lumens per Lamp: N/A  
Luminaire Lumens: 30476 lumens  
Efficiency: N/A  
Efficacy: 166.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 182.7  
Input Voltage (V): 120.0  
Input Current (Ain): 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

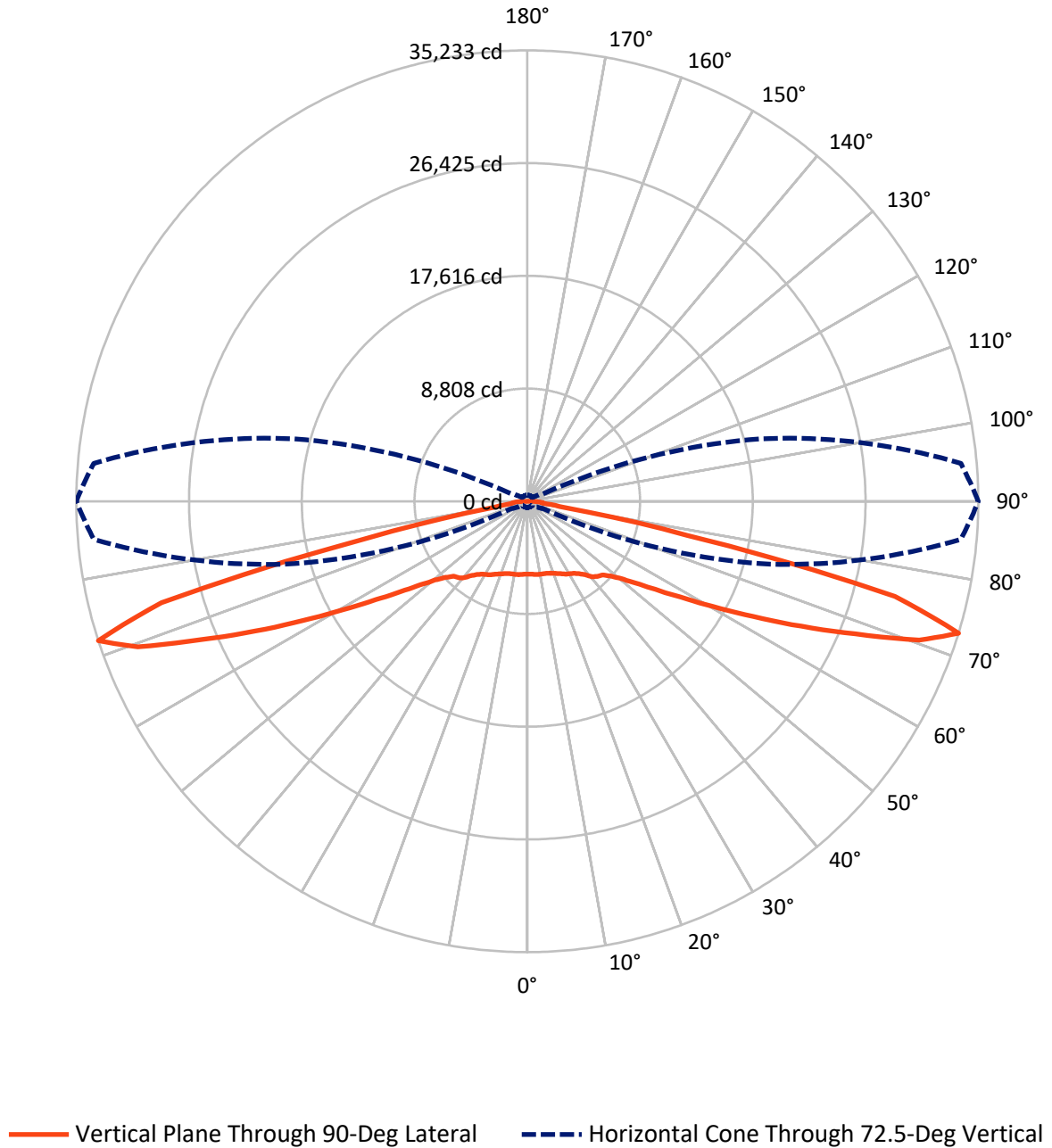
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 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	15238.0	0.0	15238.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	15238.0	0.0	15238.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	30476.0	0.0	30476.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	552.2	1.8
10°-20°	1688.3	5.5
20°-30°	2815.1	9.2
30°-40°	3871.7	12.7
40°-50°	4728.4	15.5
50°-60°	5468.9	17.9
60°-70°	6520.8	21.4
70°-80°	4551.1	14.9
80°-90°	279.5	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°	30476.0	100.0
0°-180°	30476.0	100.0

**Coefficient of Utilization**



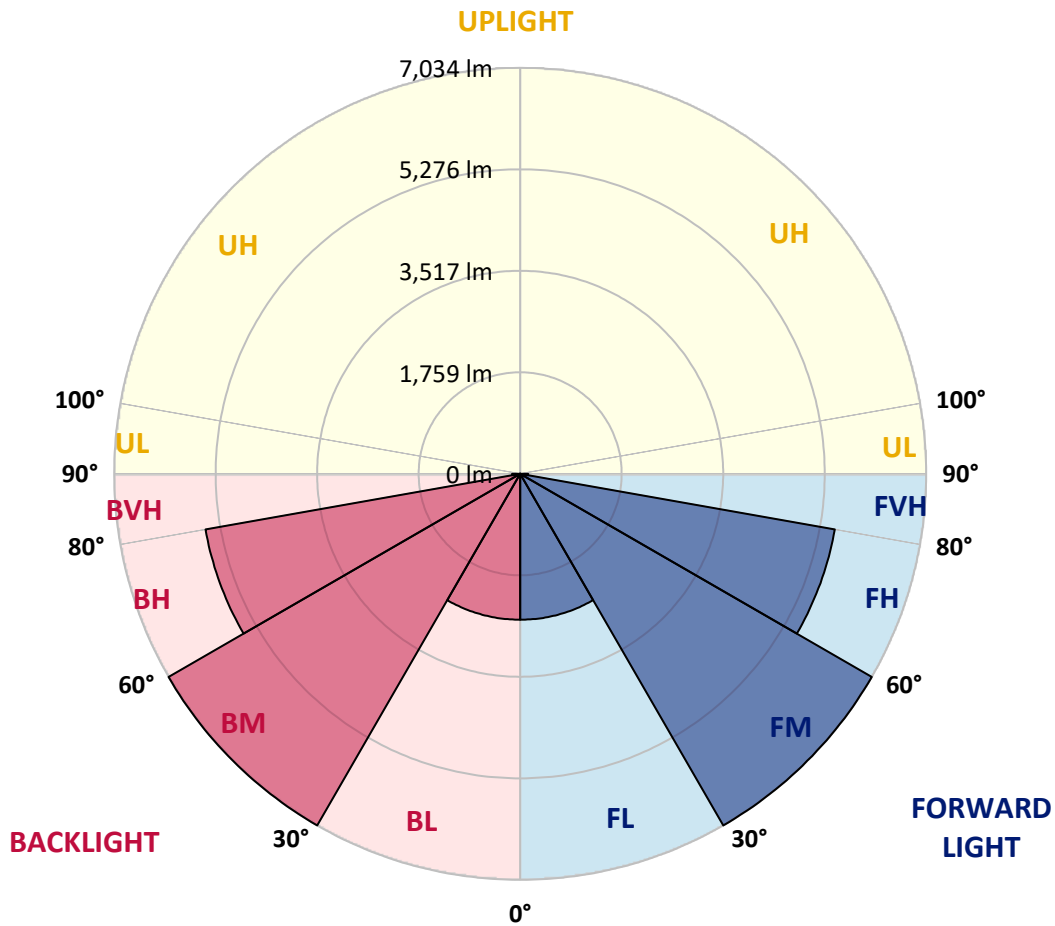
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2527.8	8.3			
FM (30°-60°)	7034.5	23.1			
FH (60°-80°)	5535.9	18.2			G3/7500
FVH (80°-90°)	139.8	0.5			G2/225
BL (0°-30°)	2527.8	8.3	B4/5000		
BM (30°-60°)	7034.5	23.1	B4/8500		
BH (60°-80°)	5535.9	18.2	B5		G5
BVH (80°-90°)	139.8	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: 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°	5694.8	5694.8	5694.8	5694.8	5694.8	5694.8	5694.8	5694.8	5694.8	5694.8	5694.8
2.5°	5699.6	5706.1	5706.1	5701.2	5712.6	5702.9	5702.9	5698.0	5702.9	5698.0	5698.0
5°	5728.8	5736.9	5740.1	5738.5	5753.1	5745.0	5745.0	5738.5	5740.1	5735.3	5735.3
7.5°	5783.8	5795.2	5801.7	5809.8	5830.8	5821.1	5814.6	5795.2	5787.1	5774.1	5774.1
10°	5801.7	5814.6	5835.7	5877.8	5926.4	5928.0	5908.6	5860.0	5822.7	5793.6	5788.7
12.5°	5746.6	5764.4	5808.1	5894.0	6002.5	6046.2	6015.5	5934.5	5861.6	5809.8	5801.7
15°	5676.9	5696.4	5762.8	5892.4	6052.7	6154.7	6151.5	6044.6	5928.0	5847.0	5834.1
17.5°	5568.4	5587.9	5683.4	5864.8	6091.6	6260.0	6305.4	6195.2	6031.7	5923.1	5905.3
20°	5372.4	5390.3	5523.1	5777.4	6104.5	6371.8	6490.0	6392.8	6188.8	6041.4	6013.8
22.5°	5118.2	5145.7	5301.2	5626.7	6073.8	6488.4	6700.6	6634.2	6371.8	6167.7	6130.5
25°	4846.1	4875.2	5056.6	5442.1	5994.4	6572.6	6950.0	6907.9	6579.1	6324.8	6273.0
27.5°	4611.2	4642.0	4839.6	5259.1	5871.3	6605.0	7196.2	7217.3	6830.2	6498.1	6443.1
30°	4426.6	4455.7	4666.3	5111.7	5712.6	6572.6	7411.6	7557.4	7086.1	6648.7	6569.4
32.5°	4224.1	4261.4	4483.2	4931.9	5524.7	6494.9	7599.5	7925.0	7382.5	6810.7	6710.3
35°	3968.2	4002.2	4235.4	4685.7	5278.5	6370.2	7756.6	8333.2	7806.8	7056.9	6945.1
37.5°	3657.2	3689.6	3921.2	4378.0	5033.9	6195.2	7876.5	8793.2	8312.2	7411.6	7262.6
40°	3344.6	3375.4	3592.4	4034.6	4740.8	5971.7	7918.6	9243.5	8892.0	7899.1	7740.4
42.5°	3057.9	3085.5	3284.7	3696.1	4412.0	5686.7	7863.5	9635.4	9411.9	8239.3	8035.2
45°	2793.9	2818.2	2994.8	3378.6	4070.2	5340.1	7698.3	10056.5	10030.6	8482.2	8206.9
47.5°	2492.7	2517.0	2700.0	3070.9	3728.5	4933.5	7418.1	10471.2	10890.7	9032.9	8715.4
50°	2125.0	2146.1	2333.9	2716.2	3373.8	4501.1	7029.4	10796.7	11975.8	9867.0	9468.6
52.5°	1689.3	1712.0	1895.0	2277.3	2952.7	4036.2	6517.6	11008.9	13229.5	11085.0	10594.3
55°	1256.9	1273.1	1431.8	1775.2	2431.1	3506.6	5876.2	11068.8	14651.5	12750.0	12136.2
57.5°	911.9	921.6	1023.6	1279.5	1843.2	2844.1	5097.1	10913.3	16344.1	14884.8	14112.2
60°	738.6	741.8	772.6	886.0	1281.2	2095.9	4156.1	10378.9	18180.8	17636.6	16663.2
62.5°	670.5	670.5	678.6	709.4	866.5	1383.2	3017.4	9271.0	20150.3	21114.0	19810.2
65°	623.6	623.6	626.8	641.4	683.5	881.1	1904.7	7466.7	21810.5	25187.5	23538.7
67.5°	581.5	583.1	581.5	586.3	610.6	651.1	1104.6	5157.0	22704.5	29408.4	27628.3
70°	537.7	541.0	532.9	532.9	552.3	553.9	691.6	2827.9	21962.7	32945.7	32477.6
72.5°	485.9	490.8	477.8	474.6	489.1	482.7	519.9	1357.3	18856.2	34001.7	35232.7
75°	440.6	447.0	417.9	409.8	409.8	404.9	422.7	696.5	12238.2	27736.9	29667.5
77.5°	400.1	413.0	366.0	340.1	333.7	319.1	345.0	426.0	5353.0	13022.2	12751.7
80°	330.4	348.2	301.3	270.5	259.1	243.0	272.1	298.0	1592.1	3023.9	2896.0
82.5°	246.2	254.3	213.8	192.7	183.0	171.7	204.1	207.3	518.3	1070.6	1209.9
85°	157.1	160.3	131.2	113.4	108.5	103.7	129.6	113.4	197.6	787.2	1143.5
87.5°	55.1	63.2	50.2	45.4	48.6	40.5	59.9	34.0	55.1	555.5	688.4
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)