

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: P881765

Luminaire Tested: **NAV-SB1B-827-U-T1**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P881765  
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-SB1B-827-U-T1  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 2700K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

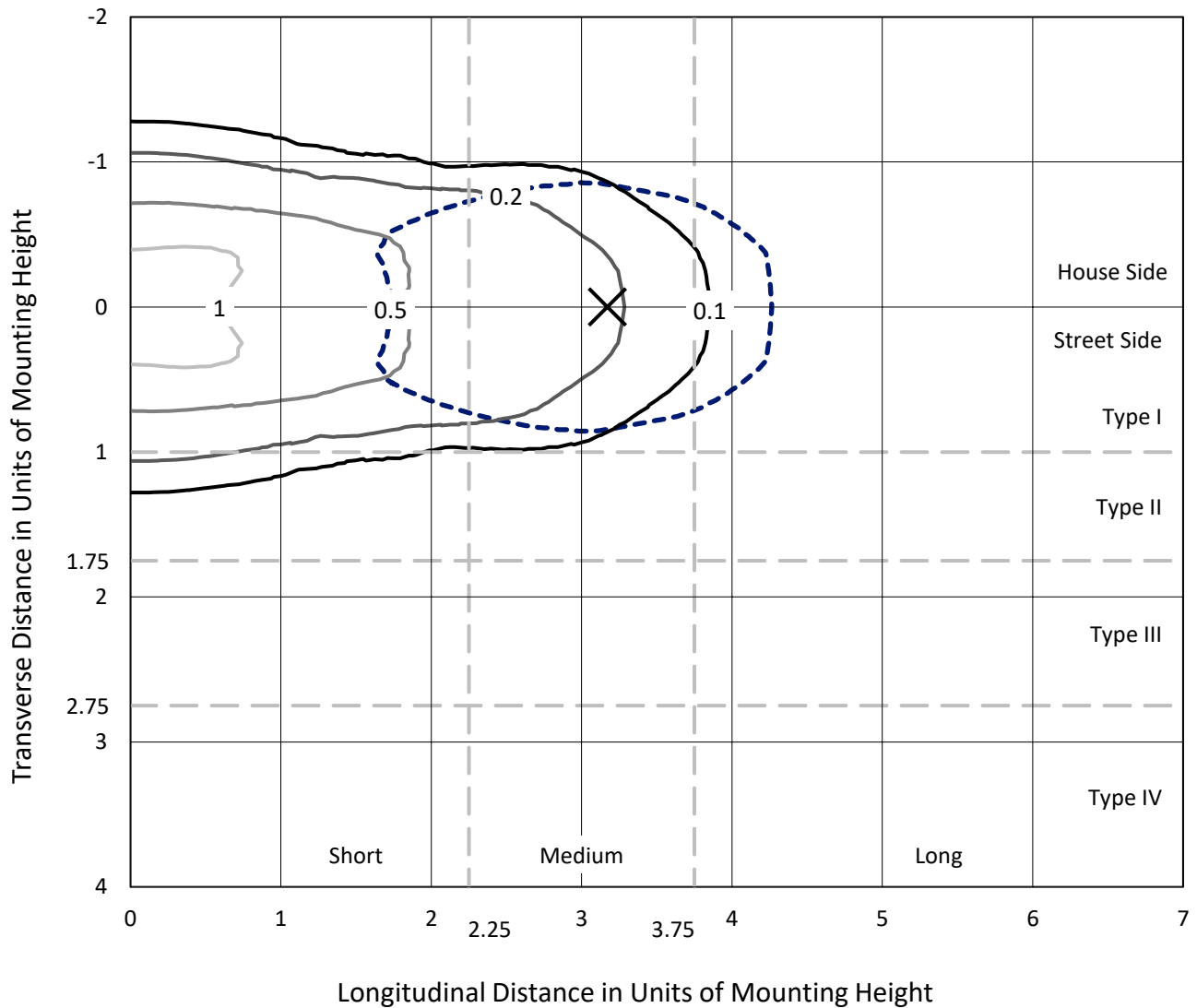
Lumens per Lamp: N/A  
Luminaire Lumens: 4530 lumens  
Efficiency: N/A  
Efficacy: 113.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 39.8  
Input Voltage (V): 120.0  
Input Current (Ain): 0.33  
Voltage Rise (V): NR  
Power Factor: 0.996  
Total Harmonic Distortion (THDi): 5.305  
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

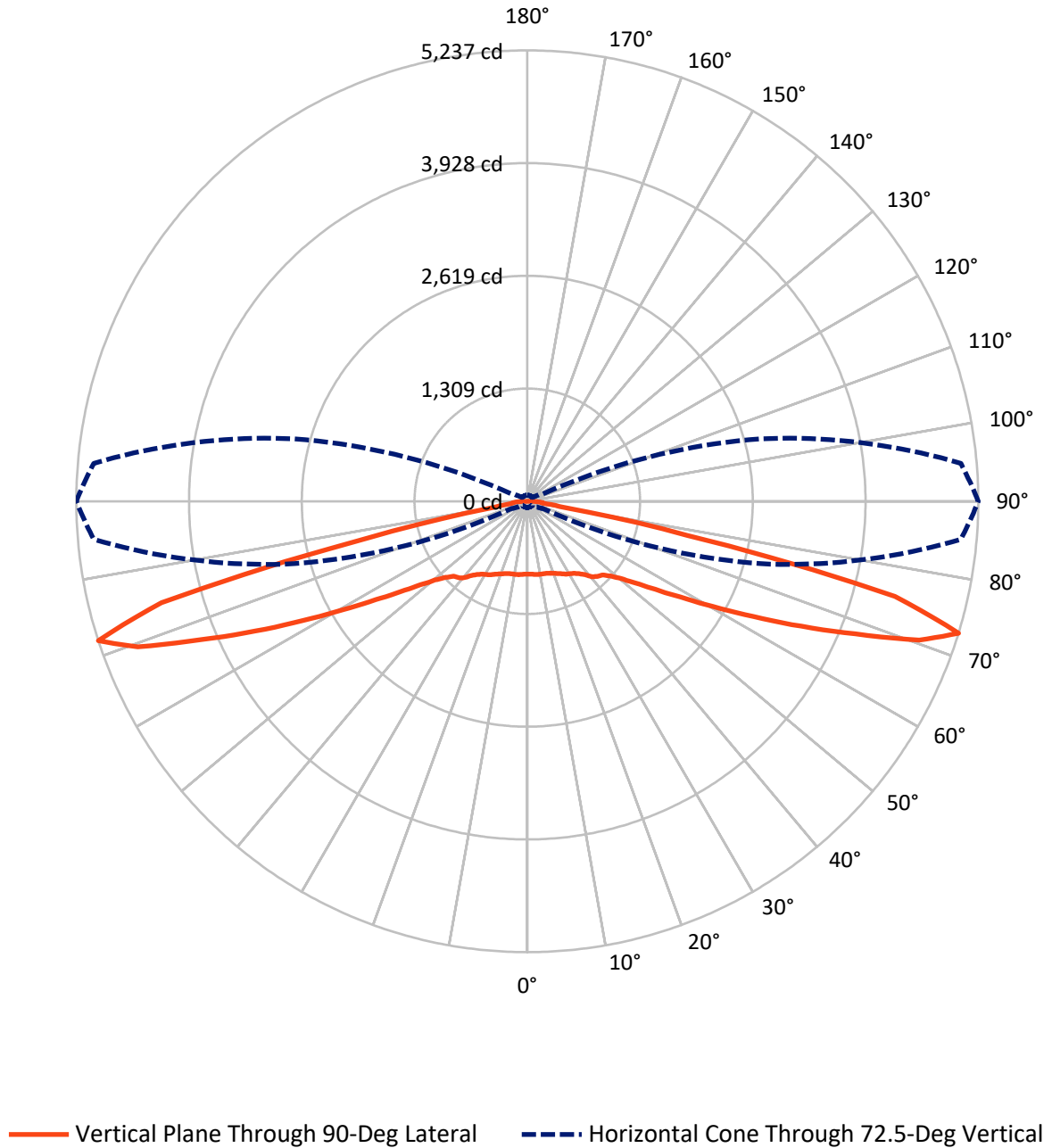
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 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	2265.0	0.0	2265.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2265.0	0.0	2265.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	4530.0	0.0	4530.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.1	1.8
10°-20°	251.0	5.5
20°-30°	418.4	9.2
30°-40°	575.5	12.7
40°-50°	702.8	15.5
50°-60°	812.9	17.9
60°-70°	969.3	21.4
70°-80°	676.5	14.9
80°-90°	41.5	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°	4530.0	100.0
0°-180°	4530.0	100.0

**Coefficient of Utilization**



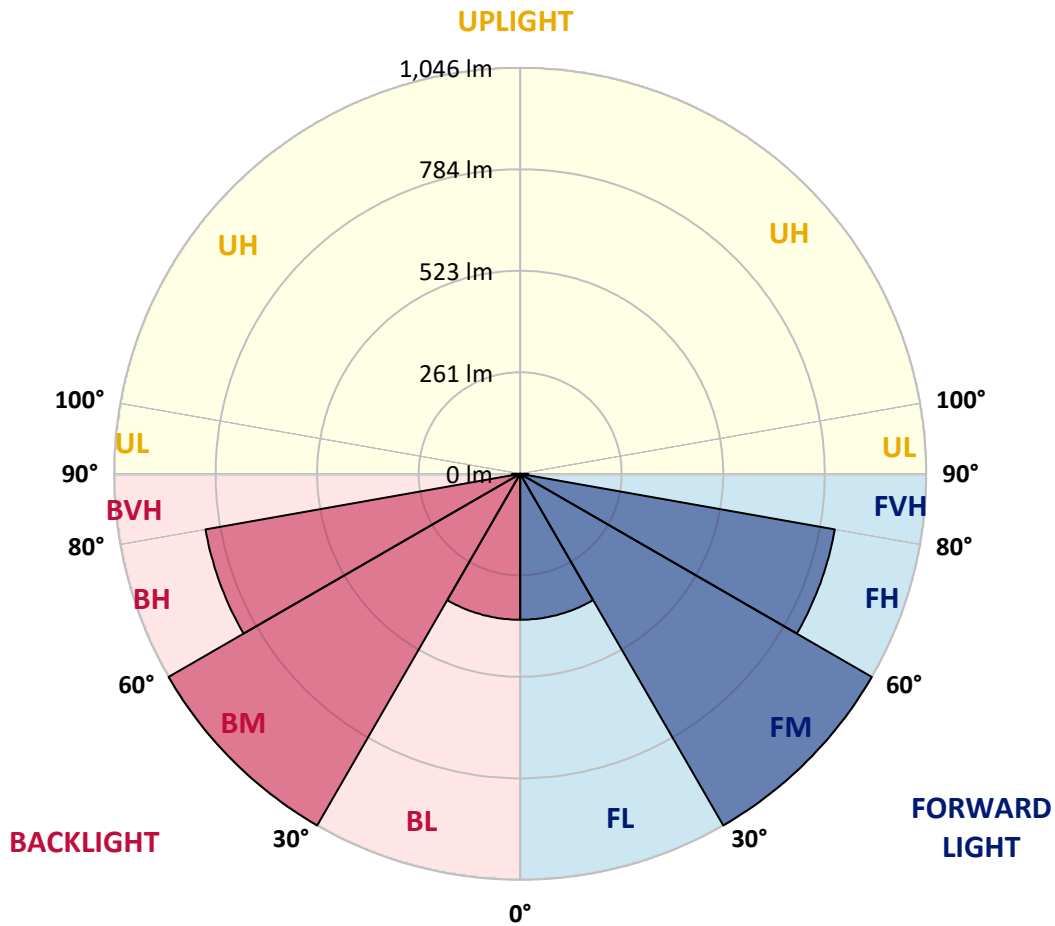
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	375.7	8.3			
FM (30°-60°)	1045.6	23.1			
FH (60°-80°)	822.9	18.2			G1/1800
FVH (80°-90°)	20.8	0.5			G1/100
BL (0°-30°)	375.7	8.3	B1/500		
BM (30°-60°)	1045.6	23.1	B2/2500		
BH (60°-80°)	822.9	18.2	B2/1000		G2/1000
BVH (80°-90°)	20.8	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type I Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	846.5	846.5	846.5	846.5	846.5	846.5	846.5	846.5	846.5	846.5	846.5
2.5°	847.2	848.2	848.2	847.4	849.1	847.7	847.7	847.0	847.7	847.0	847.0
5°	851.5	852.7	853.2	853.0	855.1	853.9	853.9	853.0	853.2	852.5	852.5
7.5°	859.7	861.4	862.4	863.6	866.7	865.3	864.3	861.4	860.2	858.3	858.3
10°	862.4	864.3	867.4	873.7	880.9	881.1	878.3	871.0	865.5	861.2	860.4
12.5°	854.2	856.8	863.3	876.1	892.2	898.7	894.1	882.1	871.3	863.6	862.4
15°	843.8	846.7	856.6	875.8	899.7	914.9	914.4	898.5	881.1	869.1	867.2
17.5°	827.7	830.6	844.8	871.8	905.5	930.5	937.2	920.9	896.6	880.4	877.8
20°	798.6	801.2	821.0	858.8	907.4	947.1	964.7	950.2	919.9	898.0	893.9
22.5°	760.8	764.9	788.0	836.4	902.8	964.4	996.0	986.1	947.1	916.8	911.2
25°	720.3	724.7	751.6	808.9	891.0	977.0	1033.1	1026.8	977.9	940.1	932.4
27.5°	685.4	690.0	719.4	781.7	872.7	981.8	1069.7	1072.8	1015.2	965.9	957.7
30°	658.0	662.3	693.6	759.8	849.1	977.0	1101.7	1123.3	1053.3	988.3	976.5
32.5°	627.9	633.4	666.4	733.1	821.2	965.4	1129.6	1178.0	1097.3	1012.4	997.4
35°	589.8	594.9	629.6	696.5	784.6	946.9	1153.0	1238.7	1160.4	1048.9	1032.3
37.5°	543.6	548.4	582.9	650.7	748.3	920.9	1170.8	1307.0	1235.5	1101.7	1079.5
40°	497.1	501.7	534.0	599.7	704.7	887.6	1177.0	1374.0	1321.7	1174.1	1150.5
42.5°	454.5	458.6	488.2	549.4	655.8	845.3	1168.8	1432.2	1399.0	1224.7	1194.4
45°	415.3	418.9	445.1	502.2	605.0	793.8	1144.3	1494.8	1491.0	1260.8	1219.9
47.5°	370.5	374.1	401.3	456.5	554.2	733.3	1102.6	1556.5	1618.8	1342.7	1295.5
50°	315.9	319.0	346.9	403.7	501.5	669.0	1044.9	1604.8	1780.1	1466.7	1407.4
52.5°	251.1	254.5	281.7	338.5	438.9	599.9	968.8	1636.4	1966.4	1647.7	1574.7
55°	186.8	189.2	212.8	263.9	361.4	521.2	873.4	1645.3	2177.8	1895.2	1803.9
57.5°	135.5	137.0	152.2	190.2	274.0	422.8	757.6	1622.2	2429.4	2212.5	2097.7
60°	109.8	110.3	114.8	131.7	190.4	311.5	617.8	1542.7	2702.4	2621.5	2476.8
62.5°	99.7	99.7	100.9	105.4	128.8	205.6	448.5	1378.1	2995.2	3138.4	2944.6
65°	92.7	92.7	93.2	95.3	101.6	131.0	283.1	1109.9	3241.9	3743.9	3498.8
67.5°	86.4	86.7	86.4	87.2	90.8	96.8	164.2	766.5	3374.8	4371.3	4106.7
70°	79.9	80.4	79.2	79.2	82.1	82.3	102.8	420.4	3264.6	4897.1	4827.5
72.5°	72.2	72.9	71.0	70.5	72.7	71.7	77.3	201.7	2802.8	5054.1	5237.0
75°	65.5	66.4	62.1	60.9	60.9	60.2	62.8	103.5	1819.1	4122.9	4409.8
77.5°	59.5	61.4	54.4	50.6	49.6	47.4	51.3	63.3	795.7	1935.6	1895.4
80°	49.1	51.8	44.8	40.2	38.5	36.1	40.4	44.3	236.7	449.5	430.5
82.5°	36.6	37.8	31.8	28.6	27.2	25.5	30.3	30.8	77.0	159.1	179.8
85°	23.4	23.8	19.5	16.9	16.1	15.4	19.3	16.9	29.4	117.0	170.0
87.5°	8.2	9.4	7.5	6.7	7.2	6.0	8.9	5.1	8.2	82.6	102.3
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)