

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: P882382

Luminaire Tested: **NAV-SB2B-727-U-5WQ**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P882382  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB2B-727-U-5WQ  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

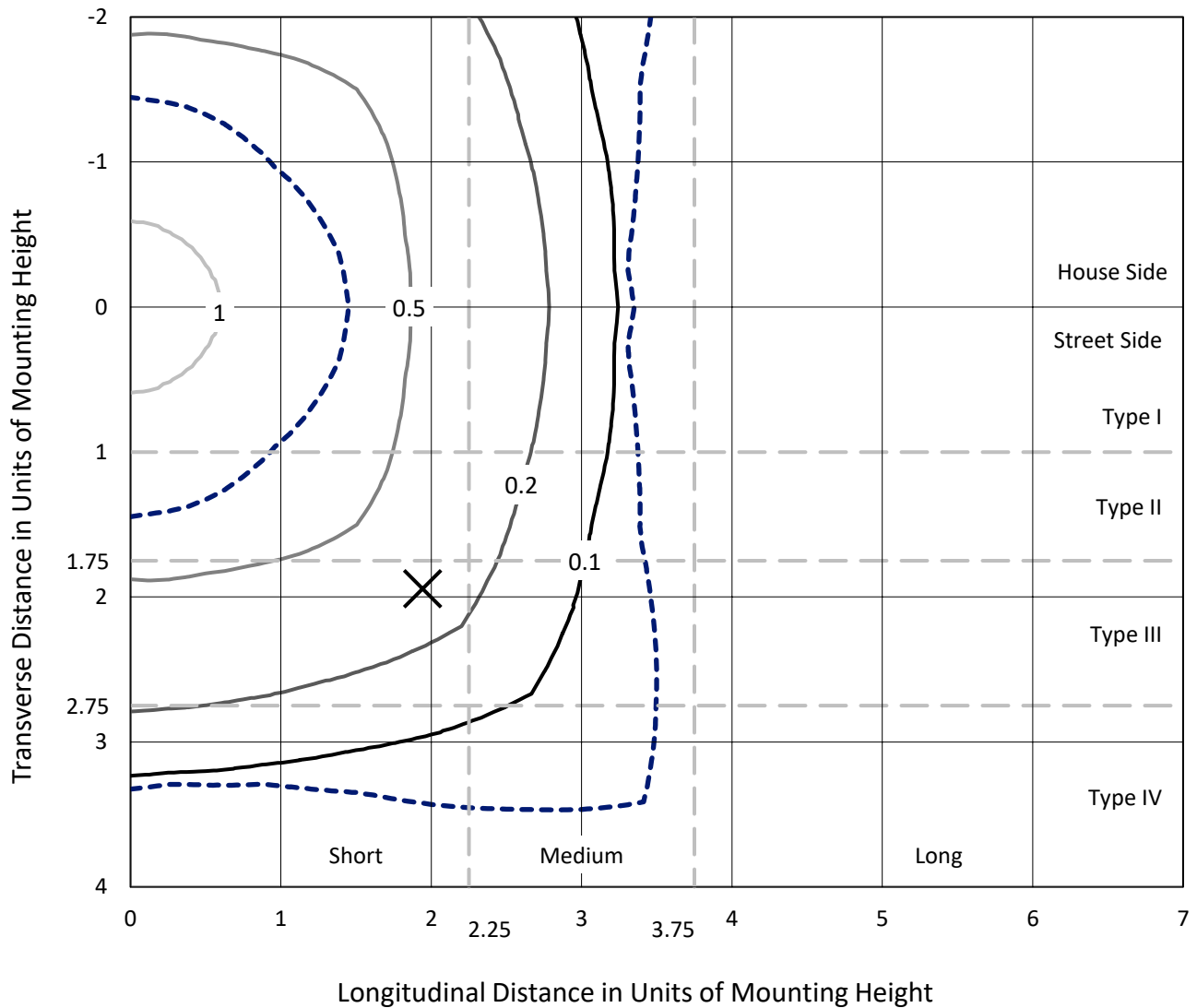
Lumens per Lamp: N/A  
Luminaire Lumens: 10520 lumens  
Efficiency: N/A  
Efficacy: 142.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2  
  
Input Watts (W): 73.9  
Input Voltage (V): 120.0  
Input Current (Ain): 0.627  
Voltage Rise (V): NR  
Power Factor: 0.988  
Total Harmonic Distortion (THDi): 13.593  
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

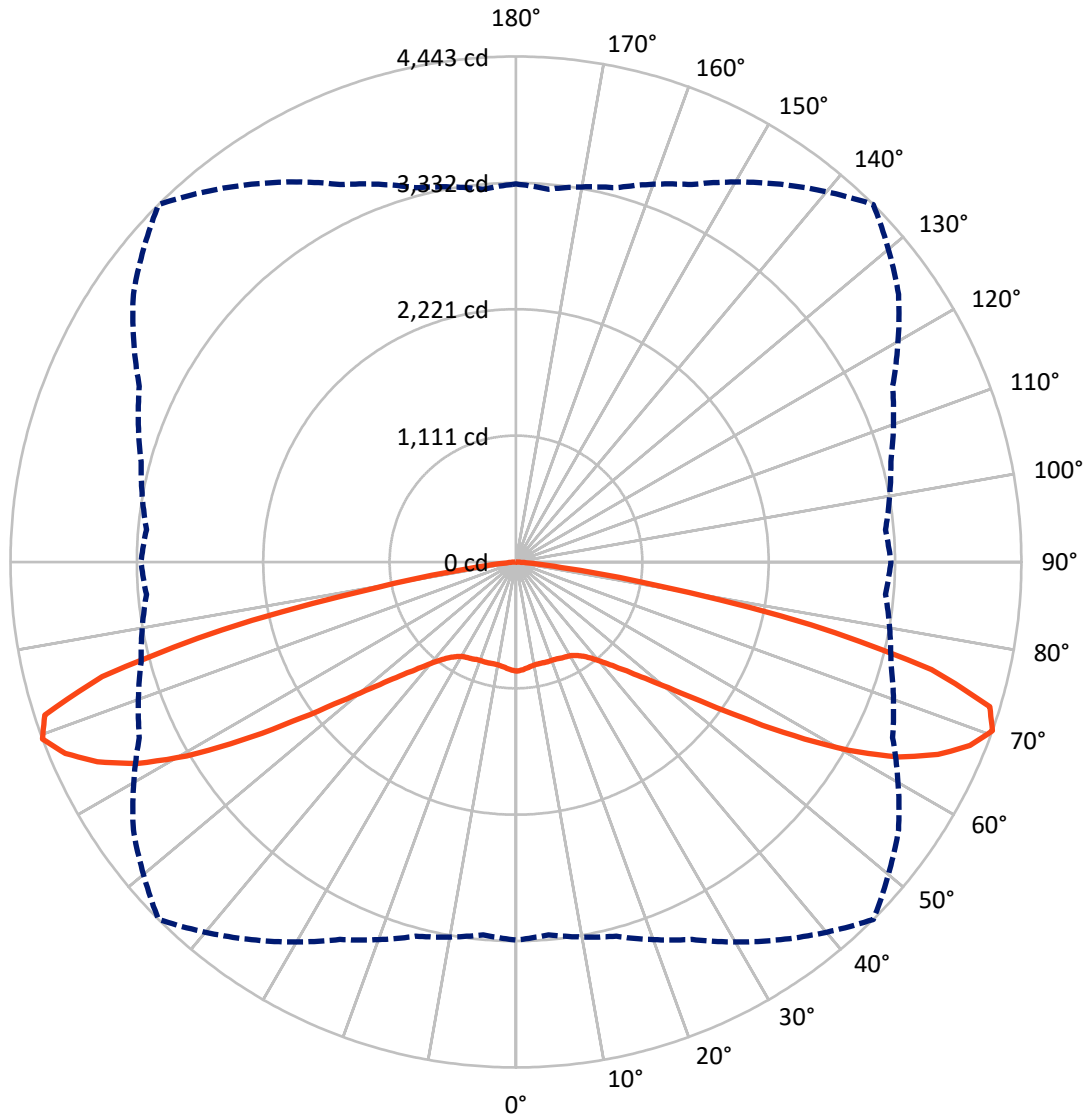
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5260.0	0.0	5260.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	5260.0	0.0	5260.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	10520.0	0.0	10520.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	89.3	0.8
10°-20°	262.1	2.5
20°-30°	436.2	4.1
30°-40°	659.7	6.3
40°-50°	1096.2	10.4
50°-60°	2068.5	19.7
60°-70°	3492.7	33.2
70°-80°	2295.1	21.8
80°-90°	120.2	1.1
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°	10520.0	100.0
0°-180°	10520.0	100.0



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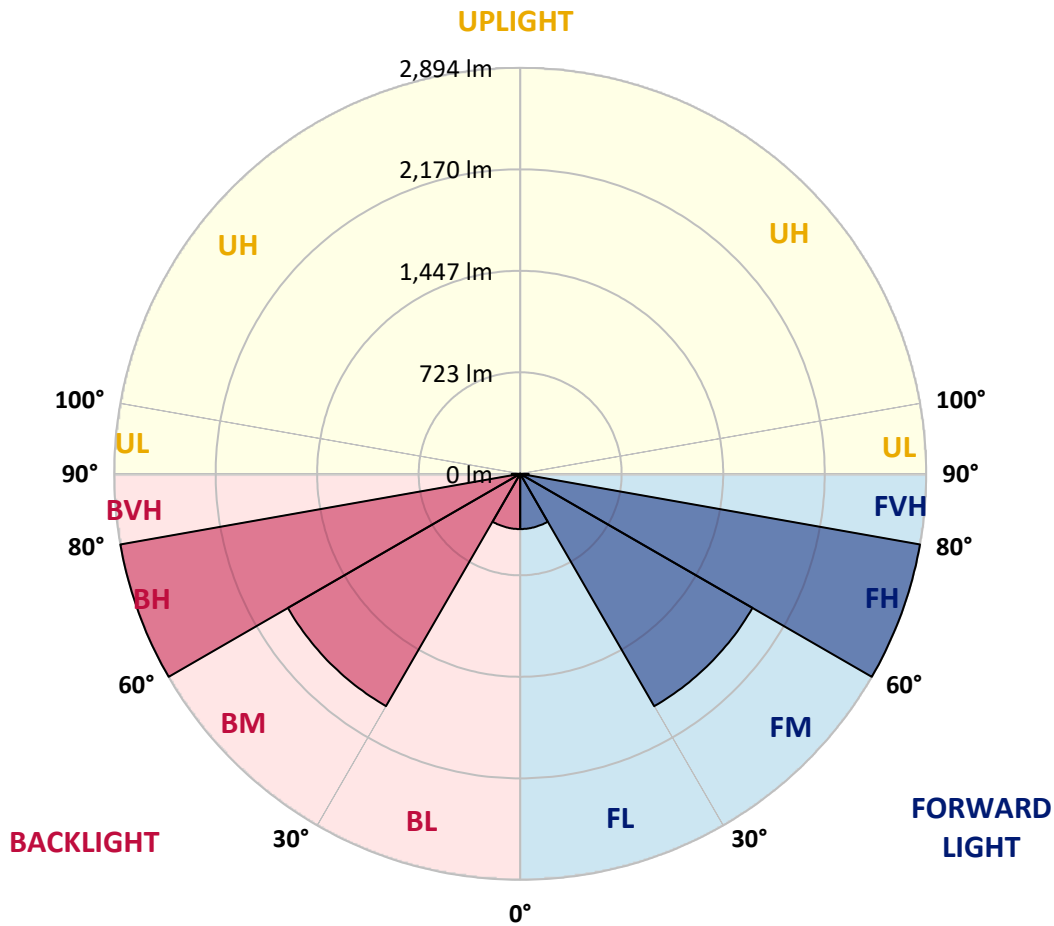
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	393.8	3.7			
FM (30°-60°)	1912.2	18.2			
FH (60°-80°)	2893.9	27.5			G2/5000
FVH (80°-90°)	60.1	0.6			G1/100
BL (0°-30°)	393.8	3.7	B1/500		
BM (30°-60°)	1912.2	18.2	B2/2500		
BH (60°-80°)	2893.9	27.5	B4/5000		G2/5000
BVH (80°-90°)	60.1	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	959.6	959.6	959.6	959.6	959.6	959.6	959.6	959.6	959.6	959.6	959.6
2.5°	953.6	956.4	955.3	953.1	953.1	951.4	953.1	954.2	955.8	956.9	956.4
5°	941.0	943.2	942.7	941.0	941.6	940.0	941.0	942.7	943.8	944.3	944.3
7.5°	930.1	932.3	931.2	928.5	928.5	926.8	927.4	929.0	930.7	931.2	931.2
10°	927.4	929.6	926.3	921.9	920.3	918.1	918.6	920.3	923.5	925.2	925.2
12.5°	928.5	930.1	926.8	920.3	918.6	916.4	916.4	918.1	922.5	924.6	925.2
15°	931.7	933.4	928.5	921.4	919.7	918.1	917.5	919.7	924.6	928.5	929.0
17.5°	937.8	939.4	931.7	921.9	919.7	920.3	919.7	921.4	929.0	936.1	936.1
20°	943.2	944.3	933.9	921.9	919.7	920.3	919.7	923.0	932.8	942.7	943.2
22.5°	944.9	946.0	936.1	925.7	924.1	924.6	924.1	927.4	936.7	946.5	946.5
25°	945.4	947.1	939.4	931.2	933.9	935.0	933.9	934.5	941.6	950.3	949.8
27.5°	953.6	955.8	948.7	941.6	943.2	942.7	944.3	946.0	951.4	960.2	958.0
30°	970.6	972.2	966.2	959.1	958.0	954.2	959.1	964.6	970.6	978.2	976.6
32.5°	998.5	1001.7	994.1	986.4	981.5	979.3	983.1	992.4	1000.6	1008.8	1005.6
35°	1044.9	1047.1	1040.0	1025.8	1017.0	1017.0	1020.3	1032.4	1045.5	1055.9	1052.0
37.5°	1110.6	1113.3	1100.7	1083.8	1070.6	1070.6	1075.0	1087.6	1107.3	1122.0	1116.6
40°	1190.4	1194.2	1178.4	1160.9	1148.3	1146.1	1151.6	1165.8	1184.4	1203.0	1196.9
42.5°	1286.6	1291.0	1270.2	1254.9	1245.1	1245.1	1247.8	1260.9	1277.9	1300.8	1299.2
45°	1409.7	1417.3	1388.9	1373.6	1364.3	1366.5	1368.1	1379.6	1394.9	1421.1	1420.0
47.5°	1556.2	1563.9	1533.8	1517.9	1516.3	1526.7	1520.1	1528.3	1536.5	1566.6	1557.8
50°	1722.4	1735.5	1714.8	1713.7	1717.0	1736.1	1720.8	1725.2	1715.9	1735.0	1723.5
52.5°	1925.8	1945.0	1941.1	1947.7	1984.3	2023.7	1988.7	1973.4	1938.4	1944.4	1924.2
55°	2172.4	2201.4	2206.9	2246.3	2329.4	2409.8	2335.4	2273.6	2199.2	2185.6	2164.2
57.5°	2452.9	2475.9	2502.2	2582.5	2737.8	2880.5	2737.8	2601.1	2484.1	2456.2	2436.5
60°	2754.8	2783.2	2808.4	2927.0	3157.8	3358.5	3153.4	2936.3	2781.6	2743.8	2711.0
62.5°	3079.0	3115.7	3133.2	3264.9	3534.0	3773.5	3537.8	3274.8	3103.1	3062.6	3029.8
65°	3390.2	3420.2	3439.9	3580.5	3837.4	4077.5	3854.9	3595.8	3419.1	3366.1	3339.9
67.5°	3535.1	3551.5	3599.6	3758.7	4029.9	4303.9	4075.9	3775.7	3578.3	3485.3	3486.4
70°	3322.9	3289.6	3405.5	3660.3	4052.9	4442.8	4105.4	3652.6	3410.9	3260.0	3296.1
72.5°	2567.8	2510.4	2711.6	3147.4	3790.4	4354.2	3816.7	3172.0	2836.8	2530.6	2606.6
75°	1397.1	1332.0	1609.8	2161.0	3022.7	3774.0	3092.2	2222.7	1792.4	1386.7	1476.9
77.5°	394.2	369.6	593.8	1045.5	1818.1	2649.8	1888.1	1068.4	704.3	417.8	464.2
80°	120.8	117.0	158.6	315.0	772.1	1269.1	742.0	318.8	201.8	127.4	134.5
82.5°	71.6	65.6	78.7	114.8	196.8	398.6	191.4	119.7	96.2	64.5	70.0
85°	41.0	38.3	46.5	55.8	66.2	84.8	55.2	56.9	51.4	34.4	36.1
87.5°	17.0	15.3	18.0	17.5	15.3	19.7	14.8	17.5	20.8	13.7	12.6
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)