

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: P882122

Luminaire Tested: **NAV-SB1D-835-U-5WQ**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P882122  
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-SB1D-835-U-5WQ  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 3500K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

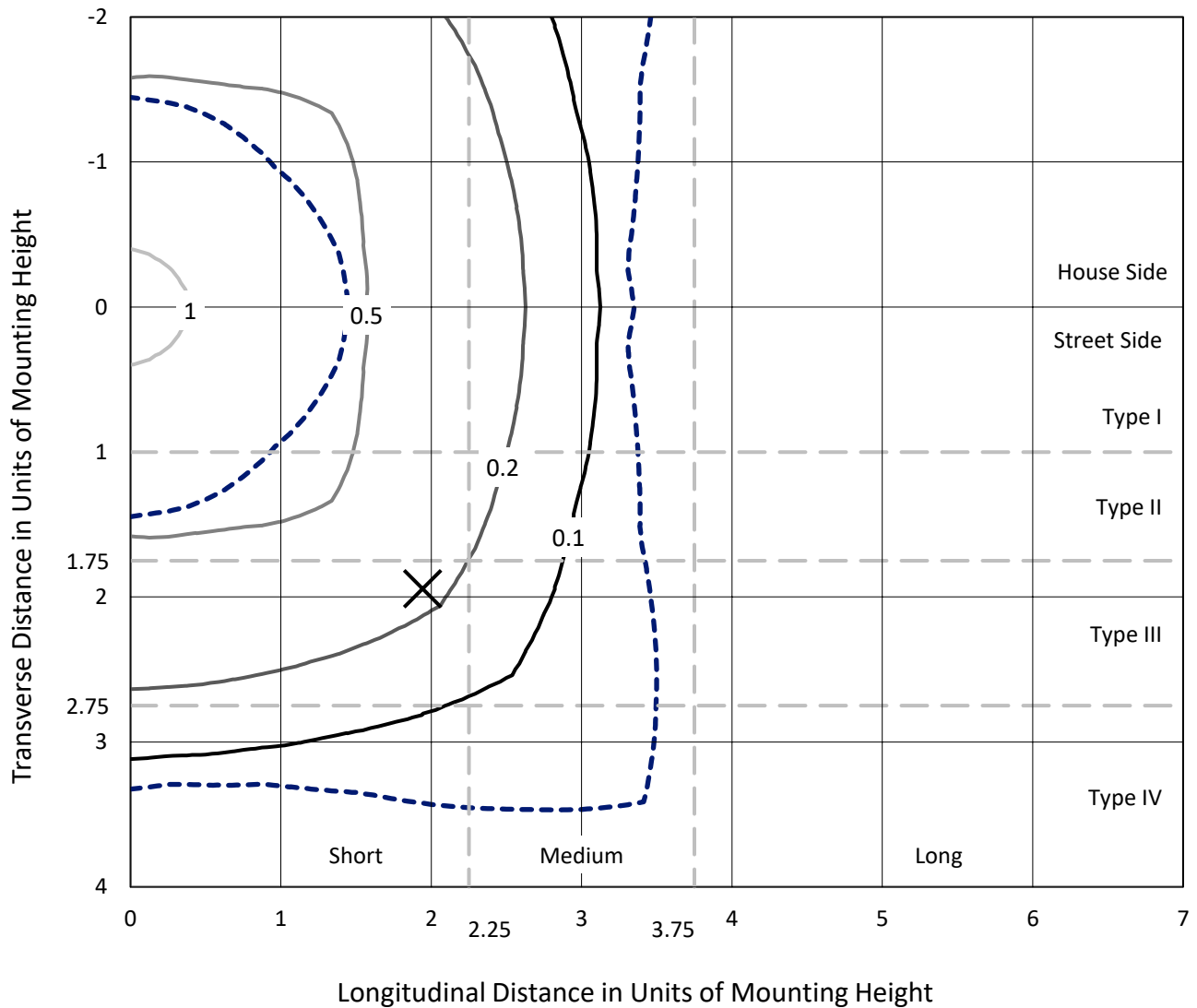
Lumens per Lamp: N/A  
Luminaire Lumens: 8692 lumens  
Efficiency: N/A  
Efficacy: 109.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 79.6  
Input Voltage (V): 120.0  
Input Current (Ain): 0.638  
Voltage Rise (V): NR  
Power Factor: 0.997  
Total Harmonic Distortion (THDi): 6.673  
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

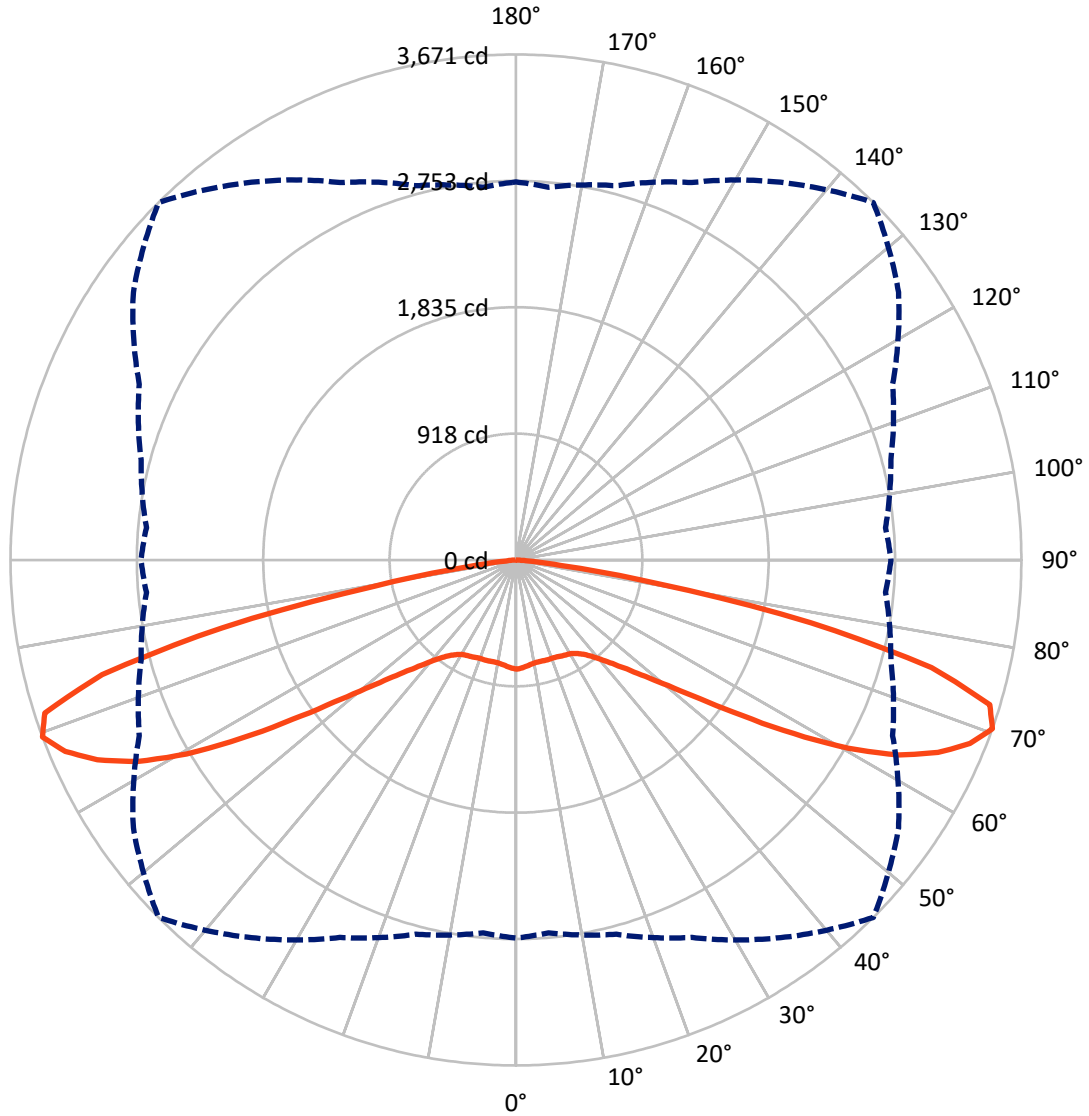
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 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	4346.0	0.0	4346.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	4346.0	0.0	4346.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	8692.0	0.0	8692.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	73.8	0.8
10°-20°	216.6	2.5
20°-30°	360.4	4.1
30°-40°	545.0	6.3
40°-50°	905.7	10.4
50°-60°	1709.1	19.7
60°-70°	2885.8	33.2
70°-80°	1896.3	21.8
80°-90°	99.4	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°	8692.0	100.0
0°-180°	8692.0	100.0

**Coefficient of Utilization**



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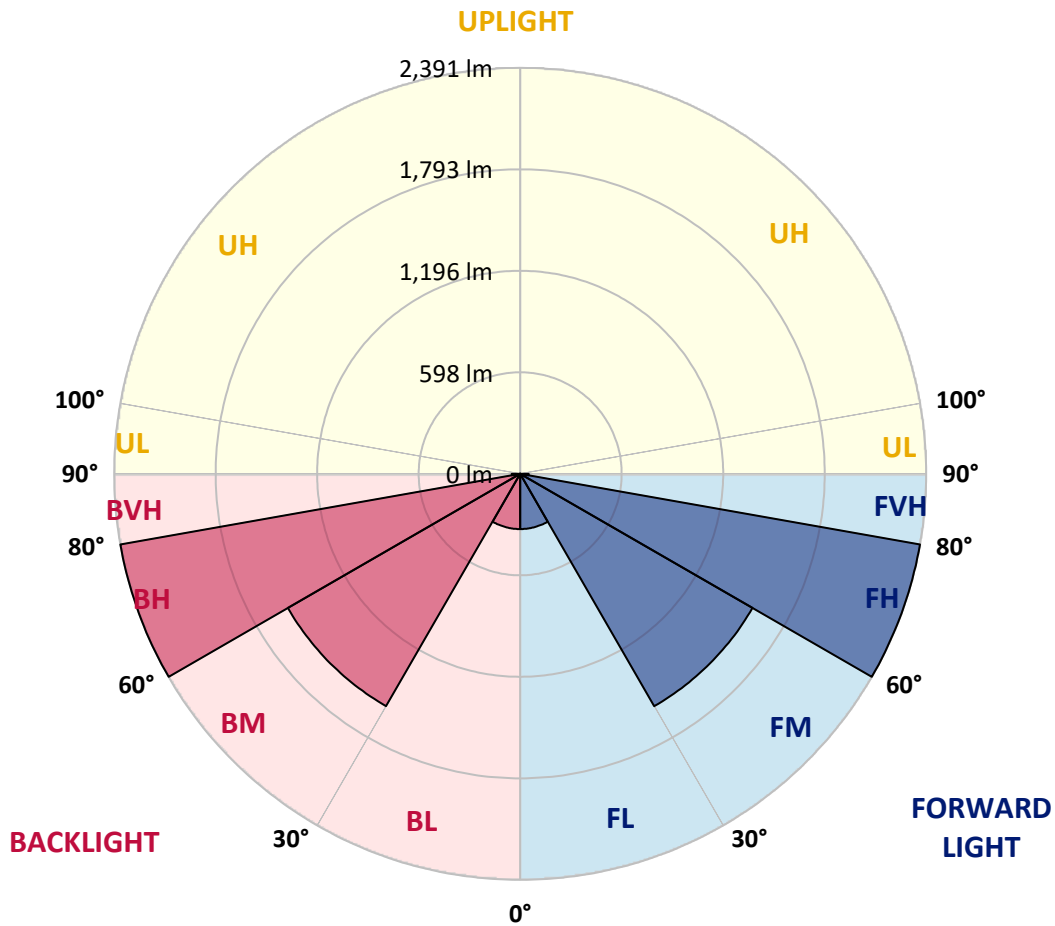
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	325.4	3.7			
FM (30°-60°)	1579.9	18.2			
FH (60°-80°)	2391.1	27.5			G2/5000
FVH (80°-90°)	49.7	0.6			G1/100
BL (0°-30°)	325.4	3.7	B1/500		
BM (30°-60°)	1579.9	18.2	B2/2500		
BH (60°-80°)	2391.1	27.5	B3/2500		G2/5000
BVH (80°-90°)	49.7	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	792.9	792.9	792.9	792.9	792.9	792.9	792.9	792.9	792.9	792.9	792.9
2.5°	787.9	790.2	789.3	787.5	787.5	786.1	787.5	788.4	789.7	790.6	790.2
5°	777.5	779.3	778.9	777.5	778.0	776.6	777.5	778.9	779.8	780.2	780.2
7.5°	768.5	770.3	769.4	767.1	767.1	765.8	766.2	767.6	768.9	769.4	769.4
10°	766.2	768.0	765.3	761.7	760.4	758.5	759.0	760.4	763.1	764.4	764.4
12.5°	767.1	768.5	765.8	760.4	759.0	757.2	757.2	758.5	762.2	764.0	764.4
15°	769.8	771.2	767.1	761.3	759.9	758.5	758.1	759.9	764.0	767.1	767.6
17.5°	774.8	776.2	769.8	761.7	759.9	760.4	759.9	761.3	767.6	773.5	773.5
20°	779.3	780.2	771.7	761.7	759.9	760.4	759.9	762.6	770.7	778.9	779.3
22.5°	780.7	781.6	773.5	764.9	763.5	764.0	763.5	766.2	773.9	782.0	782.0
25°	781.1	782.5	776.2	769.4	771.7	772.6	771.7	772.1	778.0	785.2	784.8
27.5°	787.9	789.7	783.8	778.0	779.3	778.9	780.2	781.6	786.1	793.3	791.5
30°	801.9	803.3	798.3	792.4	791.5	788.4	792.4	797.0	801.9	808.2	806.9
32.5°	825.0	827.7	821.3	815.0	811.0	809.1	812.3	820.0	826.8	833.5	830.8
35°	863.4	865.2	859.3	847.6	840.3	840.3	843.0	853.0	863.8	872.4	869.2
37.5°	917.6	919.8	909.4	895.4	884.6	884.6	888.2	898.6	914.9	927.1	922.5
40°	983.5	986.7	973.6	959.1	948.8	946.9	951.5	963.2	978.6	993.9	989.0
42.5°	1063.1	1066.7	1049.5	1036.9	1028.7	1028.7	1031.0	1041.8	1055.8	1074.8	1073.4
45°	1164.7	1171.0	1147.5	1134.9	1127.2	1129.0	1130.4	1139.9	1152.5	1174.2	1173.3
47.5°	1285.8	1292.1	1267.3	1254.2	1252.8	1261.4	1256.0	1262.7	1269.5	1294.4	1287.1
50°	1423.1	1434.0	1416.8	1415.9	1418.6	1434.4	1421.8	1425.4	1417.7	1433.5	1424.0
52.5°	1591.2	1607.0	1603.8	1609.3	1639.5	1672.1	1643.1	1630.5	1601.6	1606.6	1589.8
55°	1794.9	1818.9	1823.4	1855.9	1924.6	1991.0	1929.6	1878.5	1817.1	1805.8	1788.2
57.5°	2026.7	2045.7	2067.4	2133.8	2262.1	2380.0	2262.1	2149.1	2052.5	2029.4	2013.2
60°	2276.1	2299.6	2320.4	2418.4	2609.1	2774.9	2605.5	2426.1	2298.2	2267.1	2240.0
62.5°	2544.0	2574.3	2588.7	2697.6	2919.9	3117.8	2923.1	2705.7	2563.9	2530.5	2503.3
65°	2801.1	2825.9	2842.2	2958.3	3170.6	3369.0	3185.1	2970.9	2825.0	2781.2	2759.5
67.5°	2920.8	2934.4	2974.1	3105.6	3329.7	3556.0	3367.6	3119.6	2956.5	2879.7	2880.6
70°	2745.5	2717.9	2813.7	3024.3	3348.6	3670.8	3392.0	3017.9	2818.2	2693.6	2723.4
72.5°	2121.6	2074.2	2240.4	2600.5	3131.8	3597.6	3153.5	2620.8	2343.9	2090.9	2153.7
75°	1154.3	1100.6	1330.1	1785.5	2497.5	3118.2	2554.9	1836.5	1481.0	1145.7	1220.3
77.5°	325.7	305.4	490.6	863.8	1502.2	2189.4	1560.0	882.8	581.9	345.2	383.6
80°	99.8	96.7	131.0	260.2	637.9	1048.6	613.1	263.4	166.7	105.3	111.1
82.5°	59.2	54.2	65.1	94.9	162.6	329.4	158.1	98.9	79.5	53.3	57.8
85°	33.9	31.6	38.4	46.1	54.7	70.0	45.6	47.0	42.5	28.5	29.8
87.5°	14.0	12.7	14.9	14.5	12.7	16.3	12.2	14.5	17.2	11.3	10.4
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)