

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: P881892

Luminaire Tested: **NAV-SB1C-735-U-5WQ**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P881892  
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-SB1C-735-U-5WQ  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 3500K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

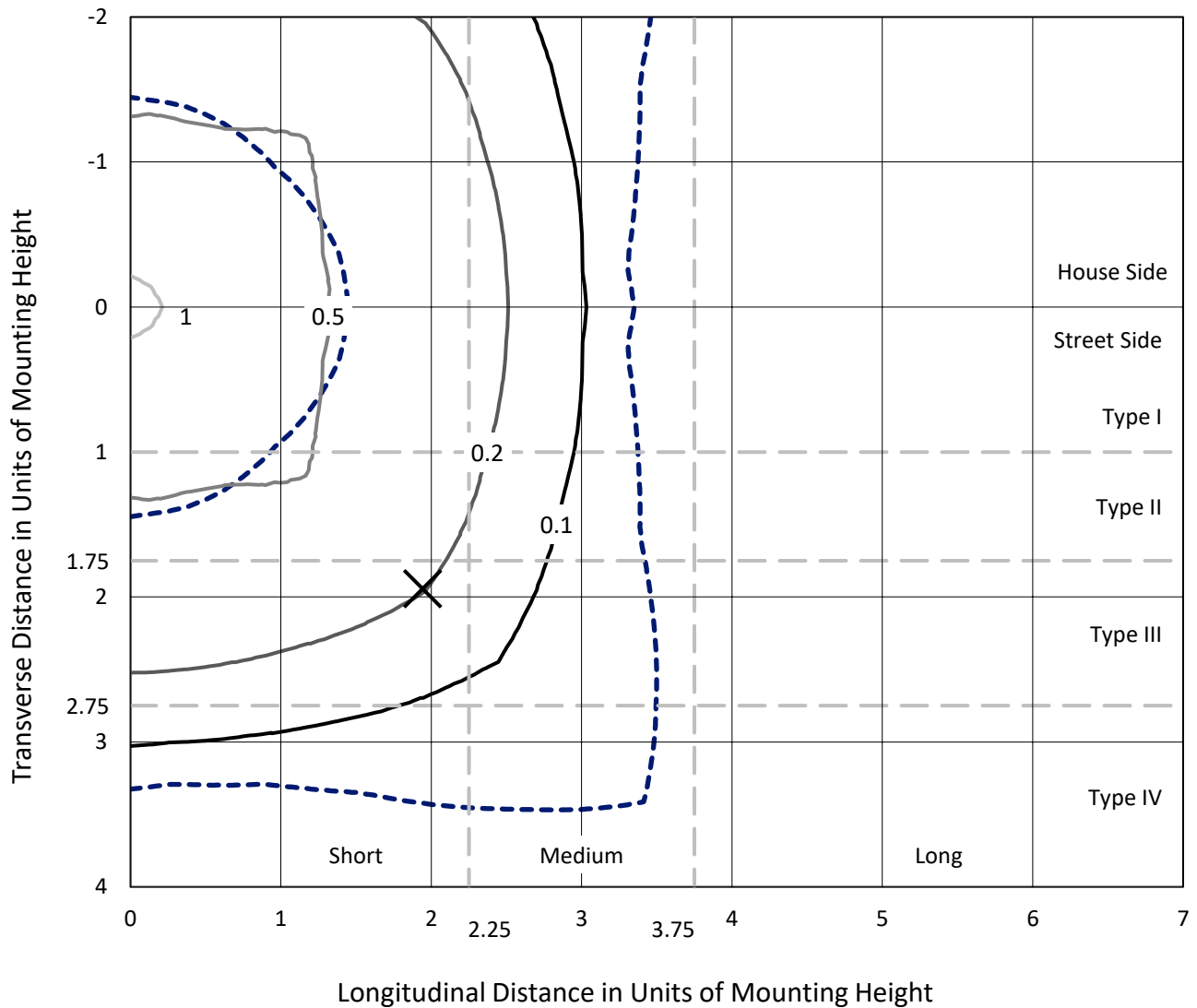
Lumens per Lamp: N/A  
Luminaire Lumens: 7582 lumens  
Efficiency: N/A  
Efficacy: 139.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 54.4  
Input Voltage (V): 120.0  
Input Current (Ain): 0.437  
Voltage Rise (V): NR  
Power Factor: 0.993  
Total Harmonic Distortion (THDi): 9.314  
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

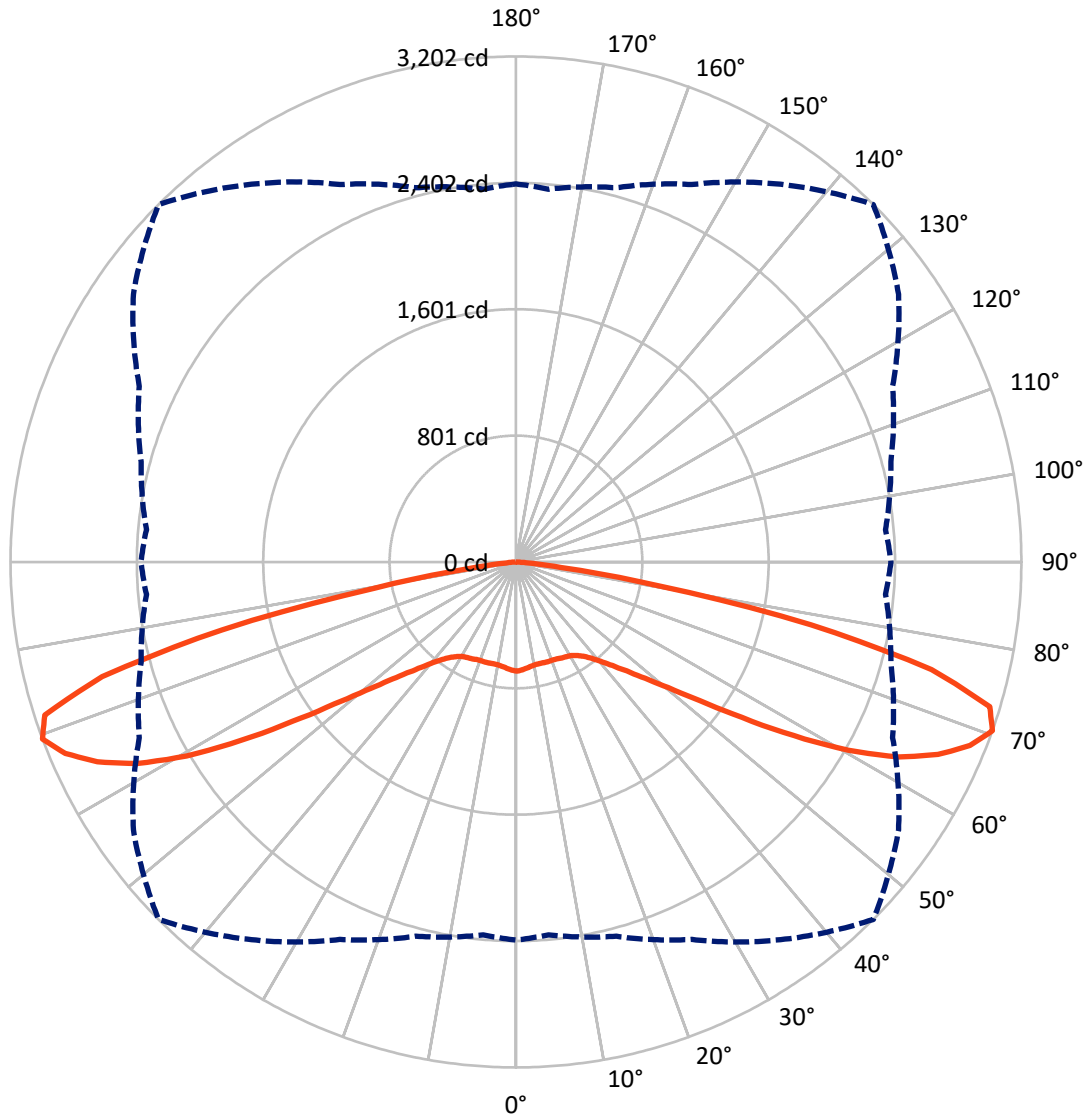
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 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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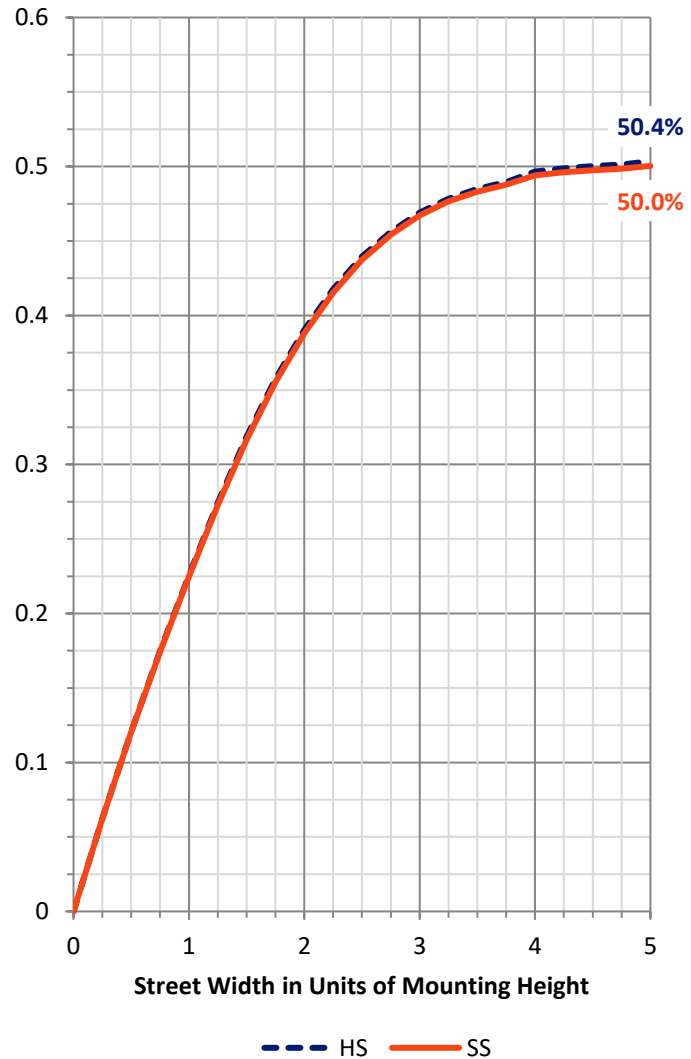
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3791.0	0.0	3791.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	3791.0	0.0	3791.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	7582.0	0.0	7582.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	64.3	0.8
10°-20°	188.9	2.5
20°-30°	314.4	4.1
30°-40°	475.4	6.3
40°-50°	790.1	10.4
50°-60°	1490.8	19.7
60°-70°	2517.3	33.2
70°-80°	1654.1	21.8
80°-90°	86.7	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°	7582.0	100.0
0°-180°	7582.0	100.0

**Coefficient of Utilization**



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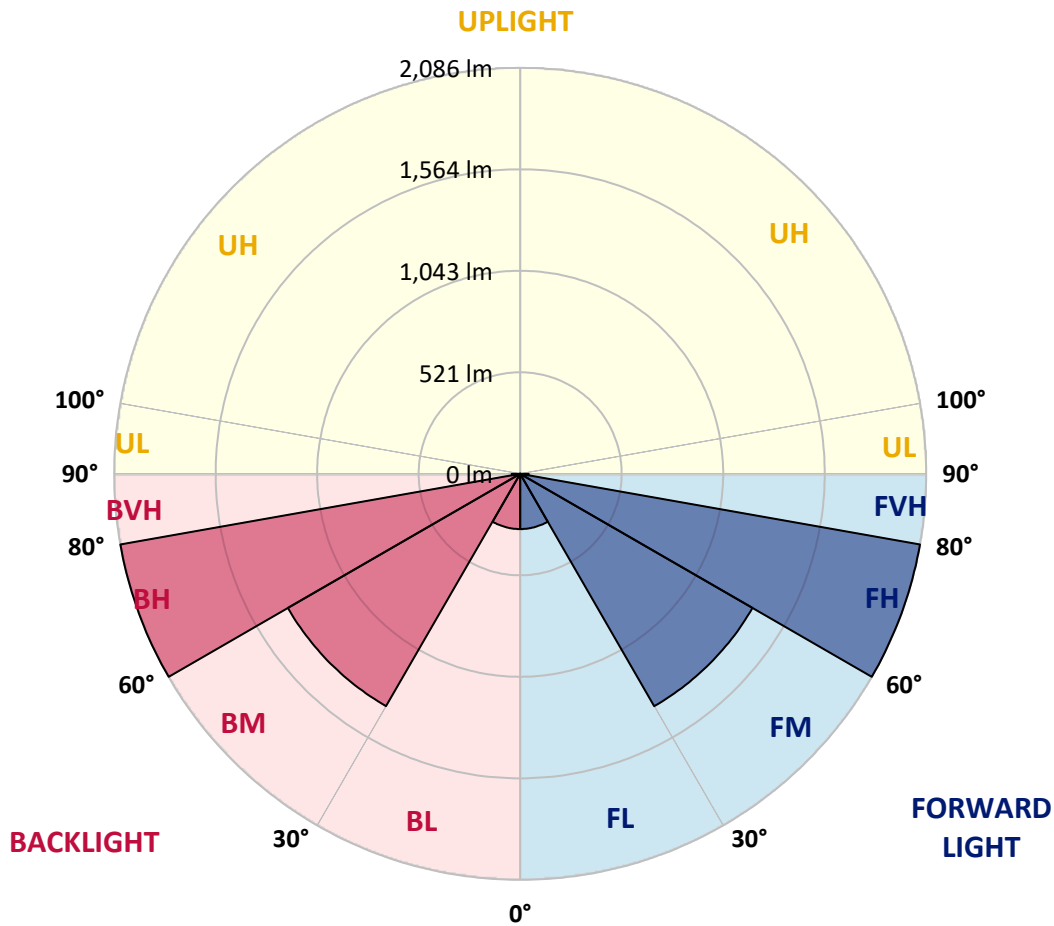
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	283.8	3.7			
FM (30°-60°)	1378.2	18.2			
FH (60°-80°)	2085.7	27.5			G2/5000
FVH (80°-90°)	43.3	0.6			G1/100
BL (0°-30°)	283.8	3.7	B1/500		
BM (30°-60°)	1378.2	18.2	B2/2500		
BH (60°-80°)	2085.7	27.5	B3/2500		G2/5000
BVH (80°-90°)	43.3	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°	691.6	691.6	691.6	691.6	691.6	691.6	691.6	691.6	691.6	691.6	691.6
2.5°	687.3	689.3	688.5	686.9	686.9	685.7	686.9	687.7	688.9	689.7	689.3
5°	678.2	679.8	679.4	678.2	678.6	677.4	678.2	679.4	680.2	680.6	680.6
7.5°	670.4	671.9	671.1	669.2	669.2	668.0	668.4	669.6	670.7	671.1	671.1
10°	668.4	670.0	667.6	664.4	663.3	661.7	662.1	663.3	665.6	666.8	666.8
12.5°	669.2	670.4	668.0	663.3	662.1	660.5	660.5	661.7	664.8	666.4	666.8
15°	671.5	672.7	669.2	664.0	662.9	661.7	661.3	662.9	666.4	669.2	669.6
17.5°	675.9	677.0	671.5	664.4	662.9	663.3	662.9	664.0	669.6	674.7	674.7
20°	679.8	680.6	673.1	664.4	662.9	663.3	662.9	665.2	672.3	679.4	679.8
22.5°	681.0	681.8	674.7	667.2	666.0	666.4	666.0	668.4	675.1	682.2	682.2
25°	681.4	682.6	677.0	671.1	673.1	673.9	673.1	673.5	678.6	684.9	684.5
27.5°	687.3	688.9	683.7	678.6	679.8	679.4	680.6	681.8	685.7	692.0	690.4
30°	699.5	700.7	696.4	691.2	690.4	687.7	691.2	695.2	699.5	705.0	703.8
32.5°	719.6	722.0	716.5	710.9	707.4	705.8	708.6	715.3	721.2	727.1	724.7
35°	753.1	754.7	749.6	739.3	733.0	733.0	735.4	744.0	753.5	761.0	758.2
37.5°	800.4	802.4	793.3	781.1	771.6	771.6	774.8	783.8	798.0	808.7	804.7
40°	857.9	860.7	849.3	836.7	827.6	826.0	830.0	840.2	853.6	867.0	862.7
42.5°	927.3	930.5	915.5	904.4	897.3	897.3	899.3	908.8	921.0	937.5	936.4
45°	1016.0	1021.5	1001.0	990.0	983.3	984.8	986.0	994.3	1005.3	1024.2	1023.5
47.5°	1121.6	1127.1	1105.4	1094.0	1092.8	1100.3	1095.6	1101.5	1107.4	1129.1	1122.8
50°	1241.4	1250.8	1235.9	1235.1	1237.4	1251.2	1240.2	1243.4	1236.7	1250.5	1242.2
52.5°	1388.0	1401.8	1399.0	1403.8	1430.2	1458.5	1433.3	1422.3	1397.1	1401.4	1386.8
55°	1565.7	1586.6	1590.6	1618.9	1678.8	1736.8	1683.2	1638.6	1585.0	1575.2	1559.8
57.5°	1767.9	1784.4	1803.4	1861.3	1973.2	2076.1	1973.2	1874.7	1790.4	1770.3	1756.1
60°	1985.4	2005.9	2024.1	2109.6	2275.9	2420.5	2272.7	2116.3	2004.7	1977.6	1953.9
62.5°	2219.1	2245.5	2258.1	2353.1	2547.0	2719.6	2549.8	2360.2	2236.5	2207.3	2183.7
65°	2443.4	2465.0	2479.2	2580.5	2765.7	2938.7	2778.3	2591.5	2464.3	2426.0	2407.1
67.5°	2547.8	2559.6	2594.3	2709.0	2904.5	3101.9	2937.6	2721.2	2578.9	2511.9	2512.7
70°	2394.9	2370.9	2454.4	2638.1	2921.0	3202.0	2958.8	2632.5	2458.3	2349.6	2375.6
72.5°	1850.7	1809.3	1954.3	2268.4	2731.8	3138.2	2750.8	2286.1	2044.5	1823.9	1878.6
75°	1006.9	960.0	1160.2	1557.5	2178.5	2720.0	2228.6	1602.0	1291.8	999.4	1064.4
77.5°	284.1	266.4	428.0	753.5	1310.4	1909.8	1360.8	770.1	507.6	301.1	334.6
80°	87.1	84.3	114.3	227.0	556.5	914.7	534.8	229.8	145.4	91.8	96.9
82.5°	51.6	47.3	56.7	82.8	141.9	287.3	137.9	86.3	69.4	46.5	50.4
85°	29.6	27.6	33.5	40.2	47.7	61.1	39.8	41.0	37.0	24.8	26.0
87.5°	12.2	11.0	13.0	12.6	11.0	14.2	10.6	12.6	15.0	9.9	9.1
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)