

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: P882402

Luminaire Tested: **NAV-SB2B-735-U-5WQ**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P882402  
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-735-U-5WQ  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

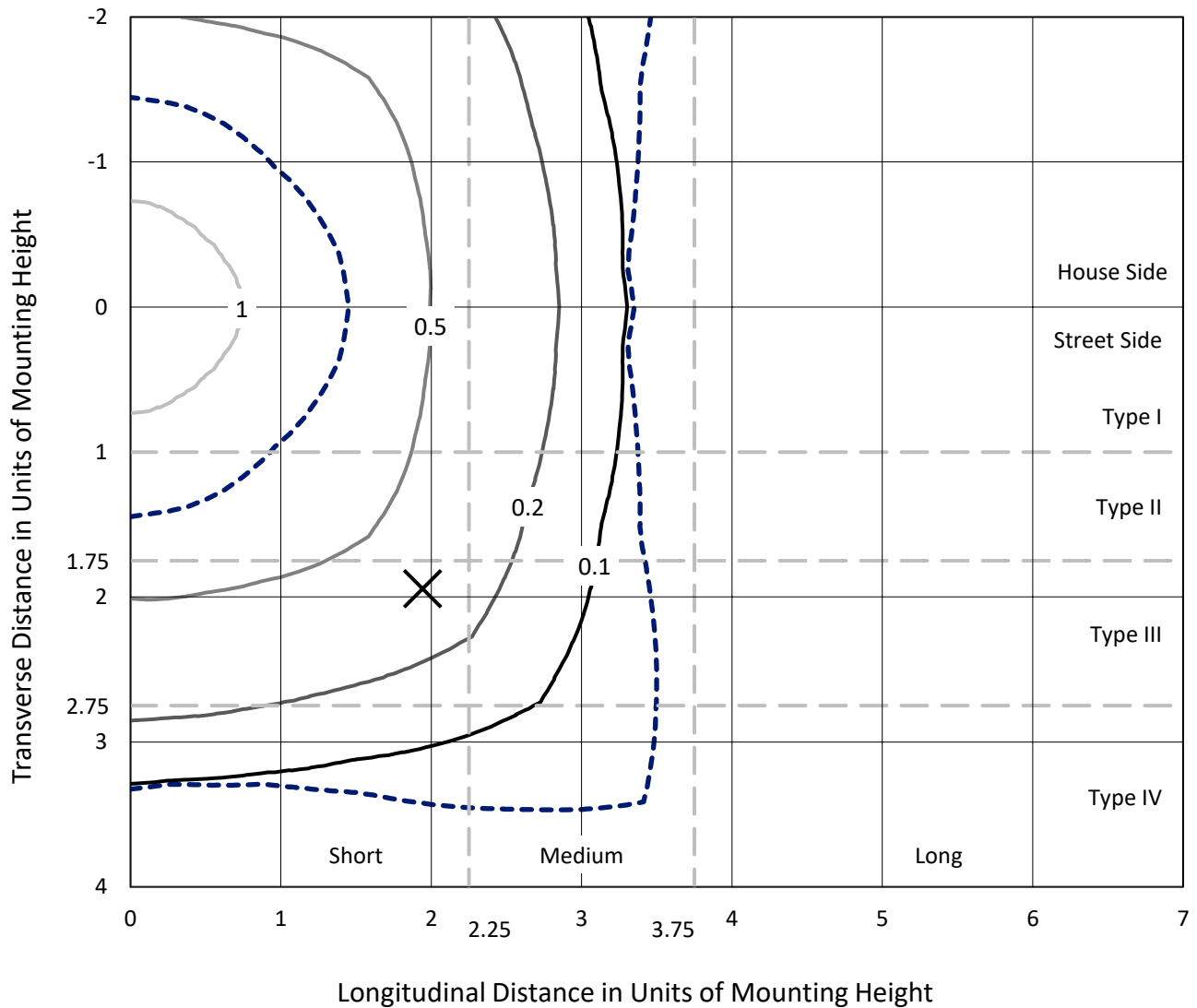
Lumens per Lamp: N/A  
Luminaire Lumens: 11609 lumens  
Efficiency: N/A  
Efficacy: 157.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2  
  
Input Watts (W): 73.9  
Input Voltage (V): 120.0  
Input Current (Ain): 0.627  
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

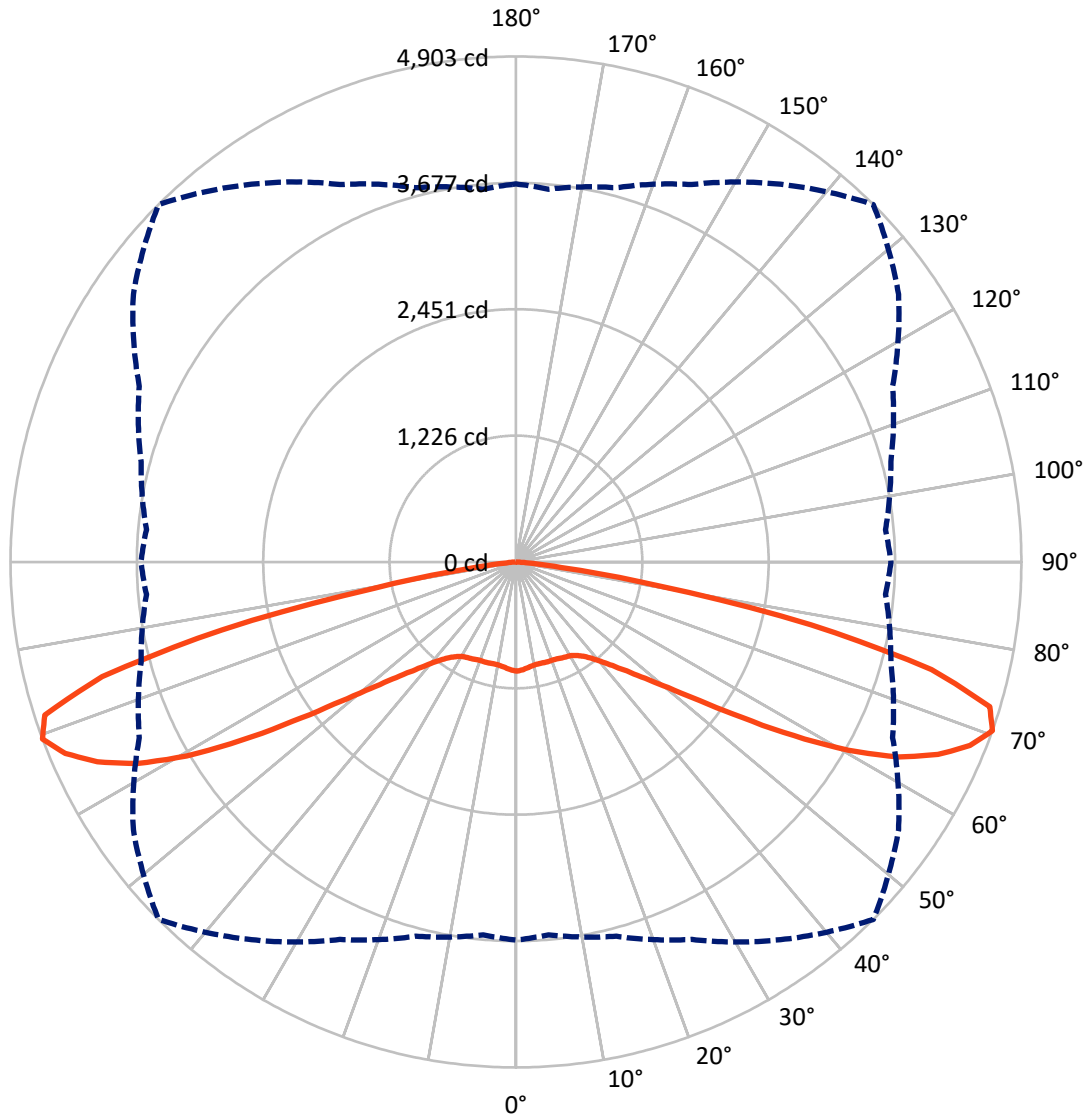
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 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	5804.5	0.0	5804.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	5804.5	0.0	5804.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	11609.0	0.0	11609.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	98.5	0.8
10°-20°	289.2	2.5
20°-30°	481.4	4.1
30°-40°	727.9	6.3
40°-50°	1209.7	10.4
50°-60°	2282.6	19.7
60°-70°	3854.3	33.2
70°-80°	2532.7	21.8
80°-90°	132.7	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°	11609.0	100.0
0°-180°	11609.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P882402

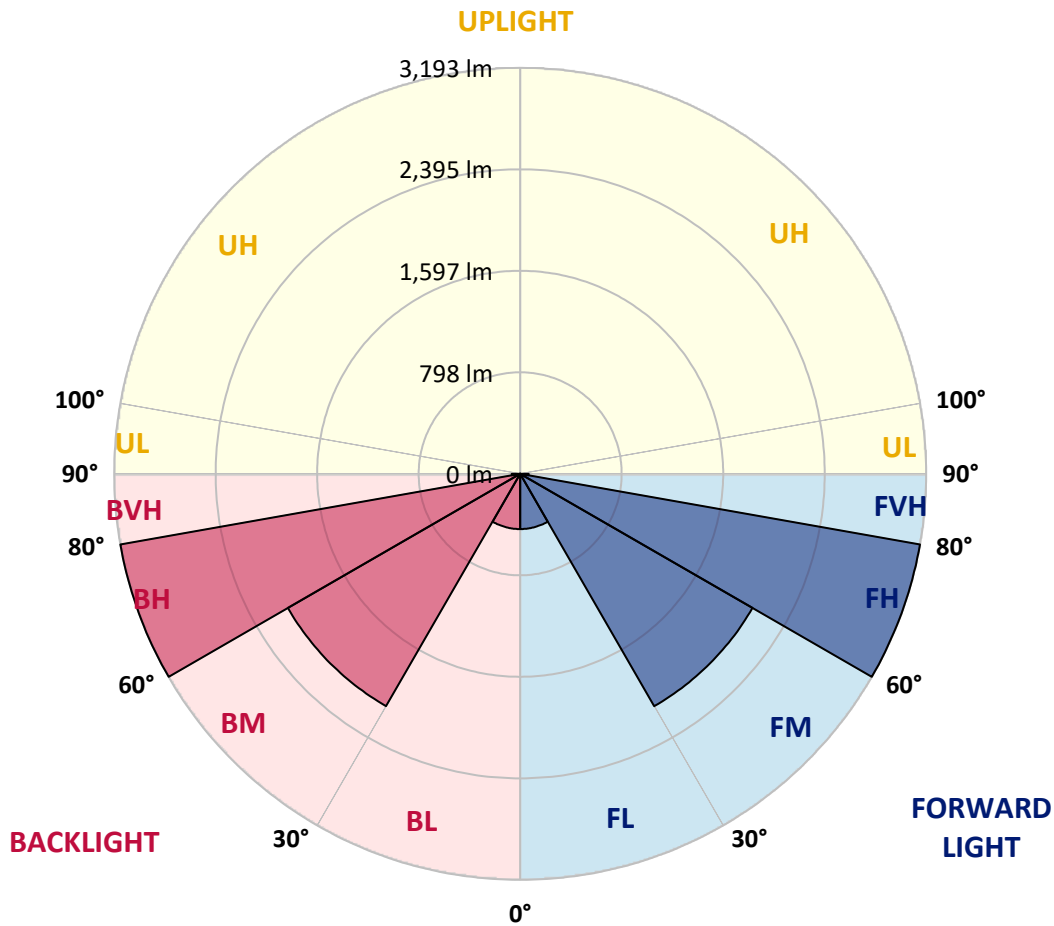
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	434.6	3.7			
FM (30°-60°)	2110.1	18.2			
FH (60°-80°)	3193.5	27.5			G2/5000
FVH (80°-90°)	66.3	0.6			G1/100
BL (0°-30°)	434.6	3.7	B1/500		
BM (30°-60°)	2110.1	18.2	B2/2500		
BH (60°-80°)	3193.5	27.5	B4/5000		G2/5000
BVH (80°-90°)	66.3	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: 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°	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0
2.5°	1052.3	1055.4	1054.1	1051.7	1051.7	1049.9	1051.7	1052.9	1054.8	1056.0	1055.4
5°	1038.5	1040.9	1040.3	1038.5	1039.1	1037.3	1038.5	1040.3	1041.5	1042.1	1042.1
7.5°	1026.4	1028.8	1027.6	1024.6	1024.6	1022.8	1023.4	1025.2	1027.0	1027.6	1027.6
10°	1023.4	1025.8	1022.2	1017.3	1015.5	1013.1	1013.7	1015.5	1019.1	1021.0	1021.0
12.5°	1024.6	1026.4	1022.8	1015.5	1013.7	1011.3	1011.3	1013.1	1017.9	1020.4	1021.0
15°	1028.2	1030.0	1024.6	1016.7	1014.9	1013.1	1012.5	1014.9	1020.4	1024.6	1025.2
17.5°	1034.8	1036.6	1028.2	1017.3	1014.9	1015.5	1014.9	1016.7	1025.2	1033.0	1033.0
20°	1040.9	1042.1	1030.6	1017.3	1014.9	1015.5	1014.9	1018.5	1029.4	1040.3	1040.9
22.5°	1042.7	1043.9	1033.0	1021.6	1019.8	1020.4	1019.8	1023.4	1033.6	1044.5	1044.5
25°	1043.3	1045.1	1036.6	1027.6	1030.6	1031.8	1030.6	1031.2	1039.1	1048.7	1048.1
27.5°	1052.3	1054.8	1046.9	1039.1	1040.9	1040.3	1042.1	1043.9	1049.9	1059.6	1057.2
30°	1071.0	1072.9	1066.2	1058.4	1057.2	1052.9	1058.4	1064.4	1071.0	1079.5	1077.7
32.5°	1101.8	1105.4	1097.0	1088.5	1083.1	1080.7	1084.9	1095.2	1104.2	1113.3	1109.7
35°	1153.1	1155.5	1147.7	1132.0	1122.3	1122.3	1126.0	1139.2	1153.7	1165.2	1160.9
37.5°	1225.5	1228.5	1214.7	1195.9	1181.5	1181.5	1186.3	1200.2	1221.9	1238.2	1232.2
40°	1313.6	1317.8	1300.3	1281.0	1267.1	1264.7	1270.8	1286.5	1307.0	1327.5	1320.9
42.5°	1419.8	1424.6	1401.7	1384.8	1374.0	1374.0	1377.0	1391.5	1410.2	1435.5	1433.7
45°	1555.6	1564.0	1532.6	1515.8	1505.5	1507.9	1509.7	1522.4	1539.3	1568.2	1567.0
47.5°	1717.3	1725.7	1692.5	1675.1	1673.2	1684.7	1677.5	1686.5	1695.6	1728.8	1719.1
50°	1900.7	1915.2	1892.3	1891.1	1894.7	1915.8	1898.9	1903.7	1893.5	1914.6	1901.9
52.5°	2125.2	2146.3	2142.1	2149.3	2189.8	2233.2	2194.6	2177.7	2139.1	2145.7	2123.4
55°	2397.3	2429.3	2435.3	2478.8	2570.5	2659.2	2577.1	2509.0	2426.9	2411.8	2388.3
57.5°	2706.9	2732.2	2761.2	2849.9	3021.2	3178.7	3021.2	2870.4	2741.3	2710.5	2688.8
60°	3040.0	3071.3	3099.1	3230.0	3484.7	3706.1	3479.8	3240.3	3069.5	3027.9	2991.7
62.5°	3397.8	3438.2	3457.5	3602.9	3899.8	4164.1	3904.0	3613.8	3424.3	3379.7	3343.5
65°	3741.1	3774.3	3796.0	3951.1	4234.7	4499.6	4254.0	3968.0	3773.1	3714.6	3685.6
67.5°	3901.0	3919.1	3972.2	4147.8	4447.1	4749.4	4497.8	4166.5	3948.7	3846.1	3847.3
70°	3666.9	3630.1	3758.0	4039.2	4472.4	4902.7	4530.4	4030.7	3764.0	3597.5	3637.3
72.5°	2833.6	2770.2	2992.3	3473.2	4182.8	4804.9	4211.8	3500.3	3130.5	2792.6	2876.4
75°	1541.7	1469.9	1776.4	2384.7	3335.6	4164.7	3412.3	2452.8	1978.0	1530.2	1629.8
77.5°	435.1	407.9	655.3	1153.7	2006.3	2924.1	2083.6	1179.1	777.2	461.0	512.3
80°	133.4	129.1	175.0	347.6	852.0	1400.5	818.8	351.8	222.7	140.6	148.4
82.5°	79.0	72.4	86.9	126.7	217.2	439.9	211.2	132.1	106.2	71.2	77.2
85°	45.3	42.2	51.3	61.5	73.0	93.5	60.9	62.8	56.7	38.0	39.8
87.5°	18.7	16.9	19.9	19.3	16.9	21.7	16.3	19.3	22.9	15.1	13.9
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)