

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: P882552

Luminaire Tested: **NAV-SB2C-727-U-5WQ**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P882552  
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-SB2C-727-U-5WQ  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

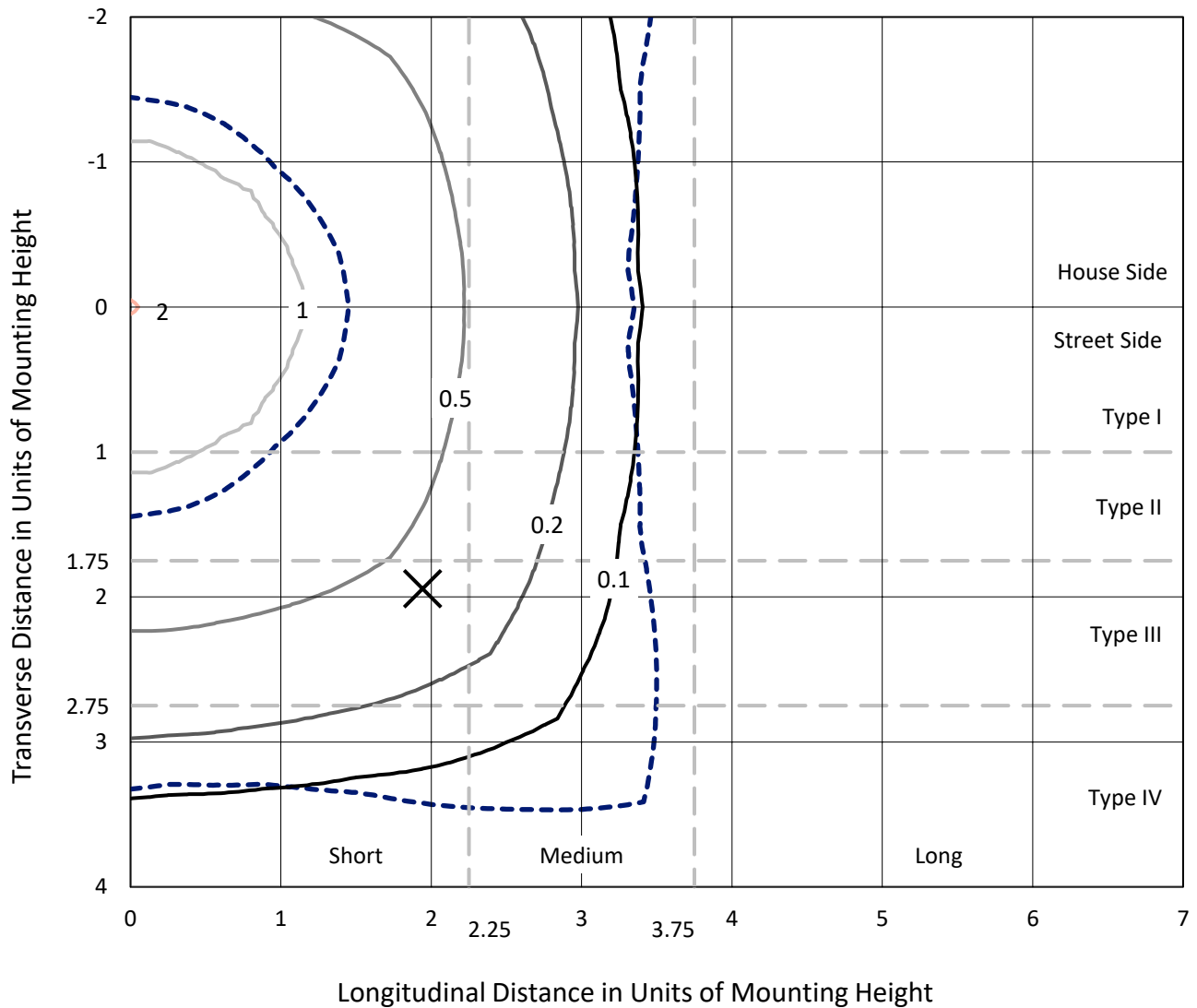
Lumens per Lamp: N/A  
Luminaire Lumens: 13992 lumens  
Efficiency: N/A  
Efficacy: 138.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2  
  
Input Watts (W): 100.9  
Input Voltage (V): 120.0  
Input Current (Ain): 0.857  
Voltage Rise (V): NR  
Power Factor: 0.994  
Total Harmonic Distortion (THDi): 9.472  
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

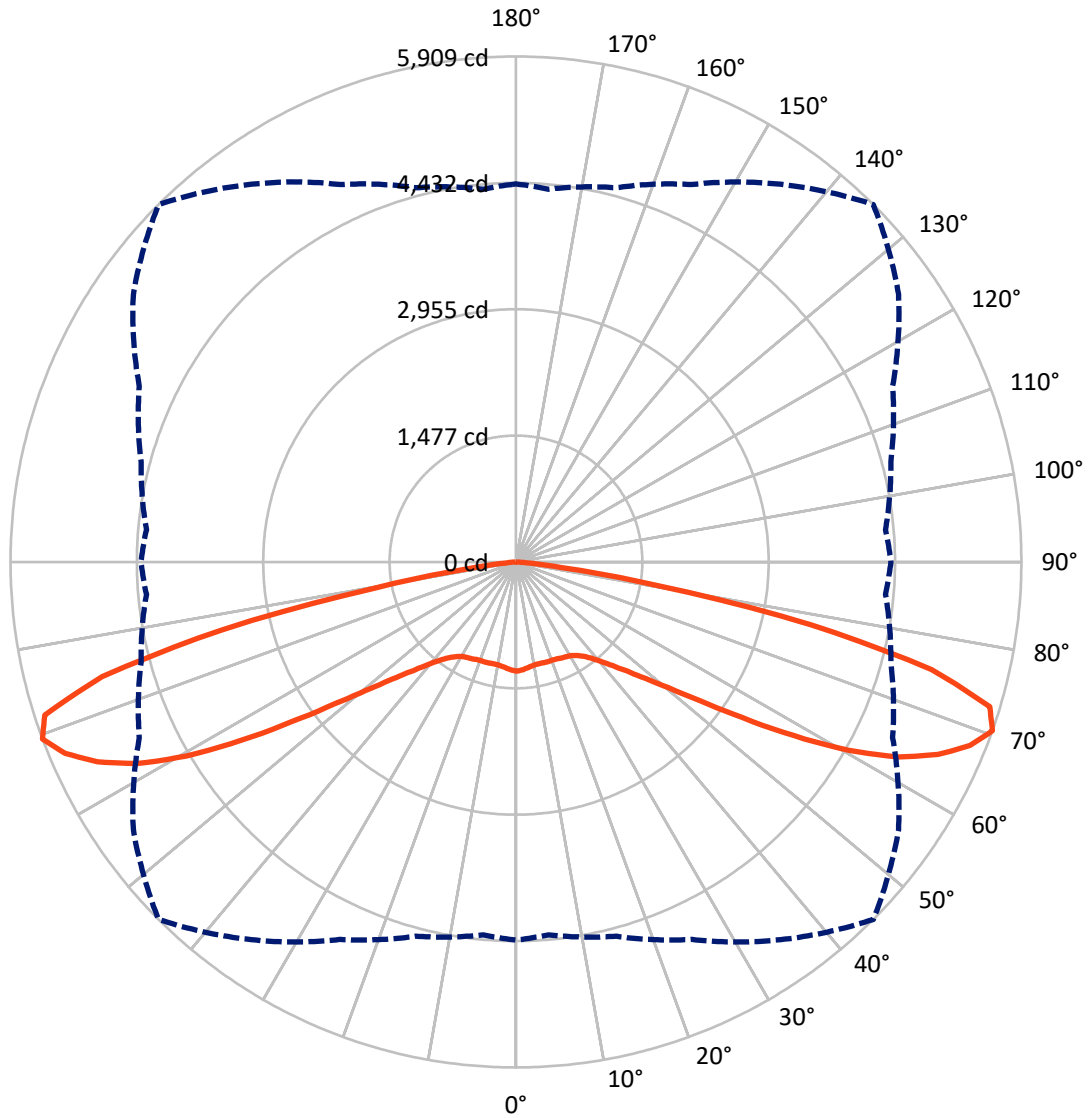
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 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	6996.0	0.0	6996.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	6996.0	0.0	6996.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	13992.0	0.0	13992.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	118.7	0.8
10°-20°	348.6	2.5
20°-30°	580.2	4.1
30°-40°	877.4	6.3
40°-50°	1458.0	10.4
50°-60°	2751.2	19.7
60°-70°	4645.5	33.2
70°-80°	3052.6	21.8
80°-90°	159.9	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°	13992.0	100.0
0°-180°	13992.0	100.0

**Coefficient of Utilization**



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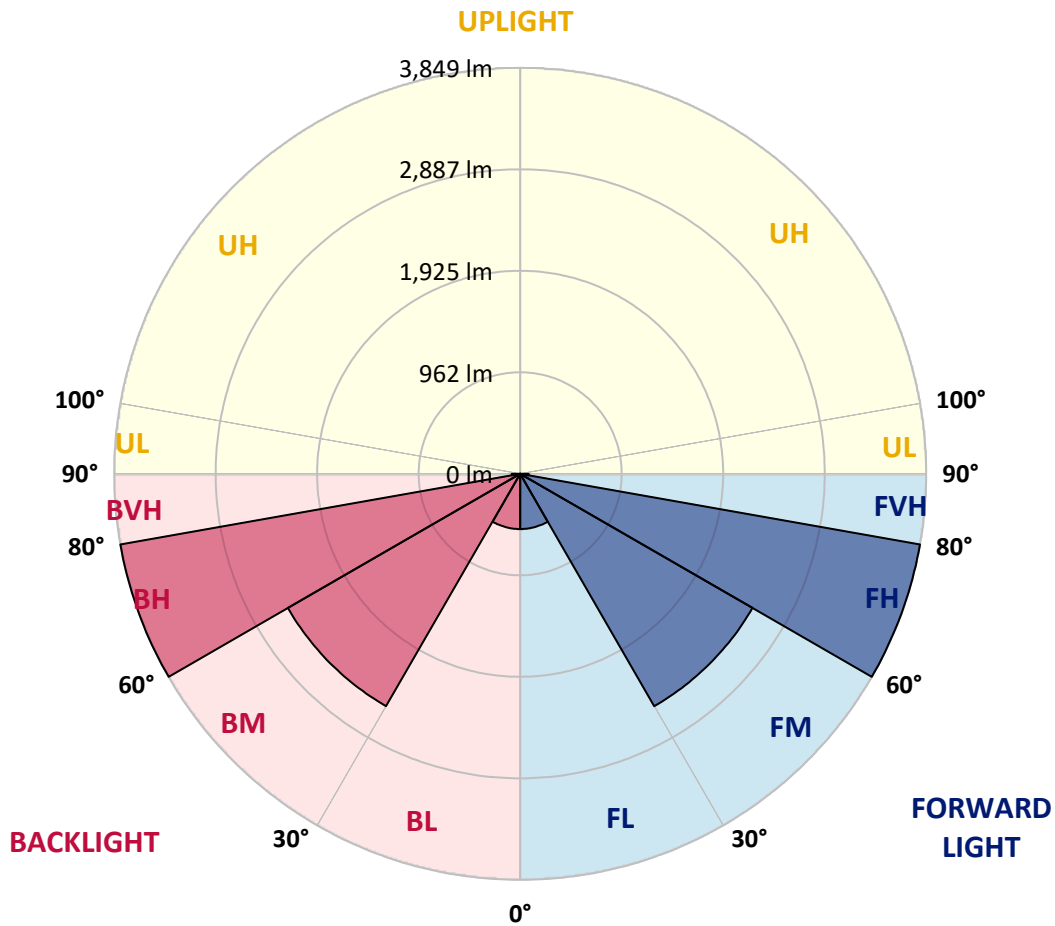
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	523.8	3.7			
FM (30°-60°)	2543.3	18.2			
FH (60°-80°)	3849.0	27.5			G2/5000
FVH (80°-90°)	80.0	0.6			G1/100
BL (0°-30°)	523.8	3.7	B2/1000		
BM (30°-60°)	2543.3	18.2	B3/5000		
BH (60°-80°)	3849.0	27.5	B4/5000		G2/5000
BVH (80°-90°)	80.0	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°	1276.4	1276.4	1276.4	1276.4	1276.4	1276.4	1276.4	1276.4	1276.4	1276.4	1276.4
2.5°	1268.4	1272.0	1270.5	1267.6	1267.6	1265.4	1267.6	1269.1	1271.3	1272.7	1272.0
5°	1251.6	1254.5	1253.8	1251.6	1252.4	1250.2	1251.6	1253.8	1255.3	1256.0	1256.0
7.5°	1237.1	1240.0	1238.5	1234.9	1234.9	1232.7	1233.4	1235.6	1237.8	1238.5	1238.5
10°	1233.4	1236.4	1232.0	1226.2	1224.0	1221.1	1221.8	1224.0	1228.4	1230.5	1230.5
12.5°	1234.9	1237.1	1232.7	1224.0	1221.8	1218.9	1218.9	1221.1	1226.9	1229.8	1230.5
15°	1239.3	1241.4	1234.9	1225.4	1223.3	1221.1	1220.4	1223.3	1229.8	1234.9	1235.6
17.5°	1247.3	1249.4	1239.3	1226.2	1223.3	1224.0	1223.3	1225.4	1235.6	1245.1	1245.1
20°	1254.5	1256.0	1242.2	1226.2	1223.3	1224.0	1223.3	1227.6	1240.7	1253.8	1254.5
22.5°	1256.7	1258.2	1245.1	1231.3	1229.1	1229.8	1229.1	1233.4	1245.8	1258.9	1258.9
25°	1257.4	1259.6	1249.4	1238.5	1242.2	1243.6	1242.2	1242.9	1252.4	1264.0	1263.3
27.5°	1268.4	1271.3	1261.8	1252.4	1254.5	1253.8	1256.0	1258.2	1265.4	1277.1	1274.2
30°	1290.9	1293.1	1285.1	1275.6	1274.2	1269.1	1275.6	1282.9	1290.9	1301.1	1298.9
32.5°	1328.0	1332.4	1322.2	1312.0	1305.4	1302.5	1307.6	1320.0	1330.9	1341.8	1337.4
35°	1389.8	1392.7	1383.3	1364.4	1352.7	1352.7	1357.1	1373.1	1390.5	1404.4	1399.3
37.5°	1477.1	1480.7	1464.0	1441.4	1424.0	1424.0	1429.8	1446.5	1472.7	1492.4	1485.1
40°	1583.3	1588.3	1567.3	1544.0	1527.3	1524.3	1531.6	1550.5	1575.3	1600.0	1592.0
42.5°	1711.3	1717.1	1689.4	1669.1	1656.0	1656.0	1659.6	1677.1	1699.6	1730.2	1728.0
45°	1874.9	1885.1	1847.3	1826.9	1814.5	1817.4	1819.6	1834.9	1855.3	1890.2	1888.7
47.5°	2069.8	2080.0	2040.0	2018.9	2016.7	2030.5	2021.8	2032.7	2043.6	2083.6	2072.0
50°	2290.9	2308.3	2280.7	2279.3	2283.6	2309.1	2288.7	2294.5	2282.2	2307.6	2292.3
52.5°	2561.4	2586.9	2581.8	2590.5	2639.2	2691.6	2645.1	2624.7	2578.2	2586.2	2559.2
55°	2889.4	2928.0	2935.2	2987.6	3098.2	3205.1	3106.2	3024.0	2925.1	2906.9	2878.5
57.5°	3262.5	3293.1	3328.0	3434.9	3641.4	3831.2	3641.4	3459.6	3304.0	3266.9	3240.7
60°	3664.0	3701.8	3735.2	3893.1	4200.0	4466.9	4194.1	3905.4	3699.6	3649.4	3605.8
62.5°	4095.2	4144.0	4167.2	4342.5	4700.3	5018.9	4705.4	4355.6	4127.2	4073.4	4029.8
65°	4509.1	4549.0	4575.2	4762.1	5104.0	5423.2	5127.2	4782.5	4547.6	4477.1	4442.1
67.5°	4701.8	4723.6	4787.6	4999.2	5360.0	5724.3	5421.0	5021.8	4759.2	4635.6	4637.0
70°	4419.6	4375.2	4529.4	4868.3	5390.5	5909.0	5460.3	4858.1	4536.7	4336.0	4384.0
72.5°	3415.2	3338.9	3606.5	4186.1	5041.4	5791.2	5076.3	4218.9	3773.1	3365.8	3466.9
75°	1858.2	1771.6	2141.1	2874.2	4020.3	5019.6	4112.7	2956.3	2384.0	1844.3	1964.3
77.5°	524.4	491.6	789.8	1390.5	2418.2	3524.3	2511.3	1421.1	936.7	555.6	617.4
80°	160.7	155.6	210.9	418.9	1026.9	1688.0	986.9	424.0	268.4	169.5	178.9
82.5°	95.3	87.3	104.7	152.7	261.8	530.2	254.5	159.3	128.0	85.8	93.1
85°	54.5	50.9	61.8	74.2	88.0	112.7	73.5	75.6	68.4	45.8	48.0
87.5°	22.5	20.4	24.0	23.3	20.4	26.2	19.6	23.3	27.6	18.2	16.7
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)