

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: P883142

Luminaire Tested: **NAV-SB3B-835-U-5WQ**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P883142  
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-SB3B-835-U-5WQ  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

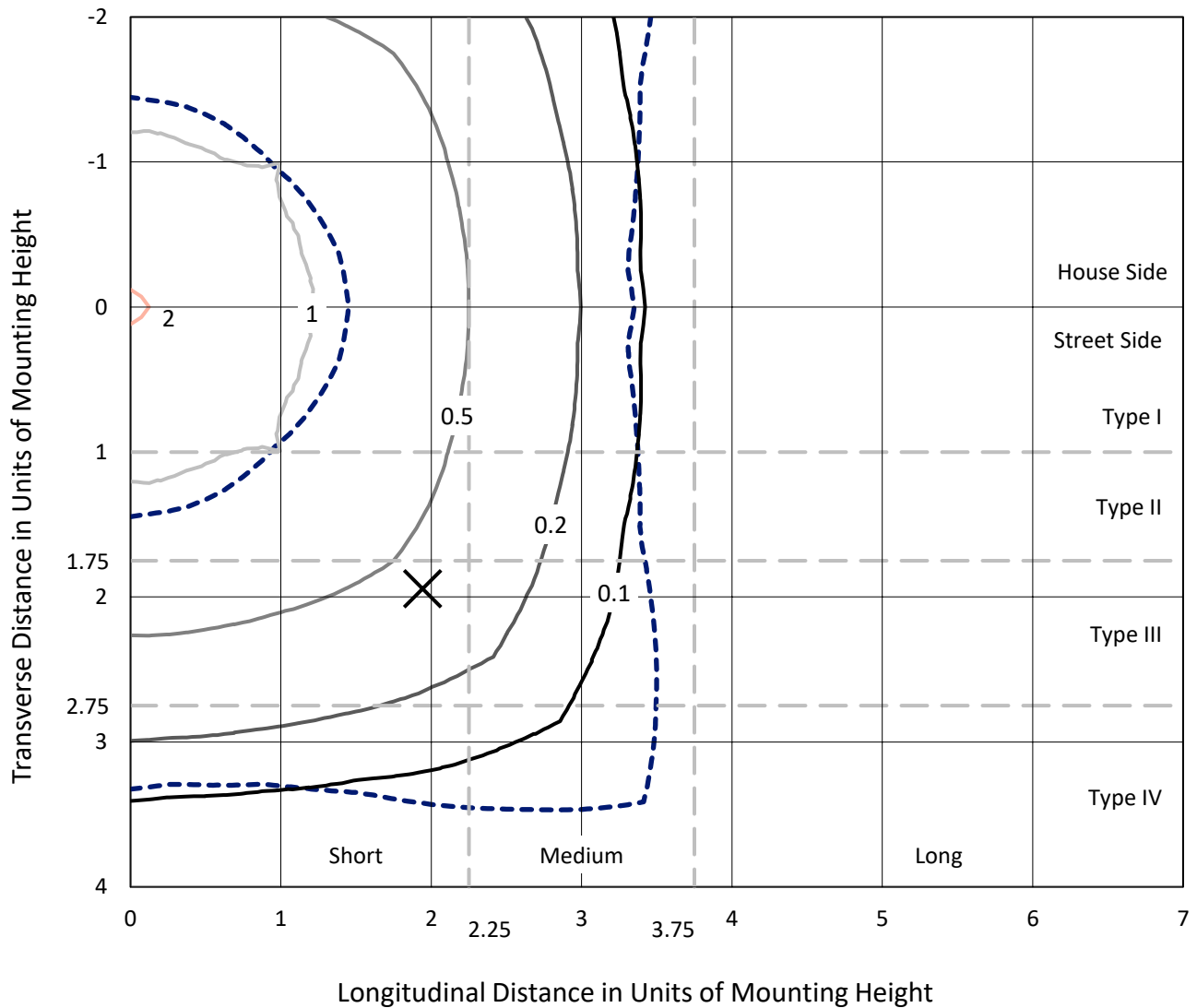
Lumens per Lamp: N/A  
Luminaire Lumens: 14415 lumens  
Efficiency: N/A  
Efficacy: 132.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2  
  
Input Watts (W): 109.2  
Input Voltage (V): 120.0  
Input Current (Ain): 0.919  
Voltage Rise (V): NR  
Power Factor: 0.995  
Total Harmonic Distortion (THDi): 8.657  
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

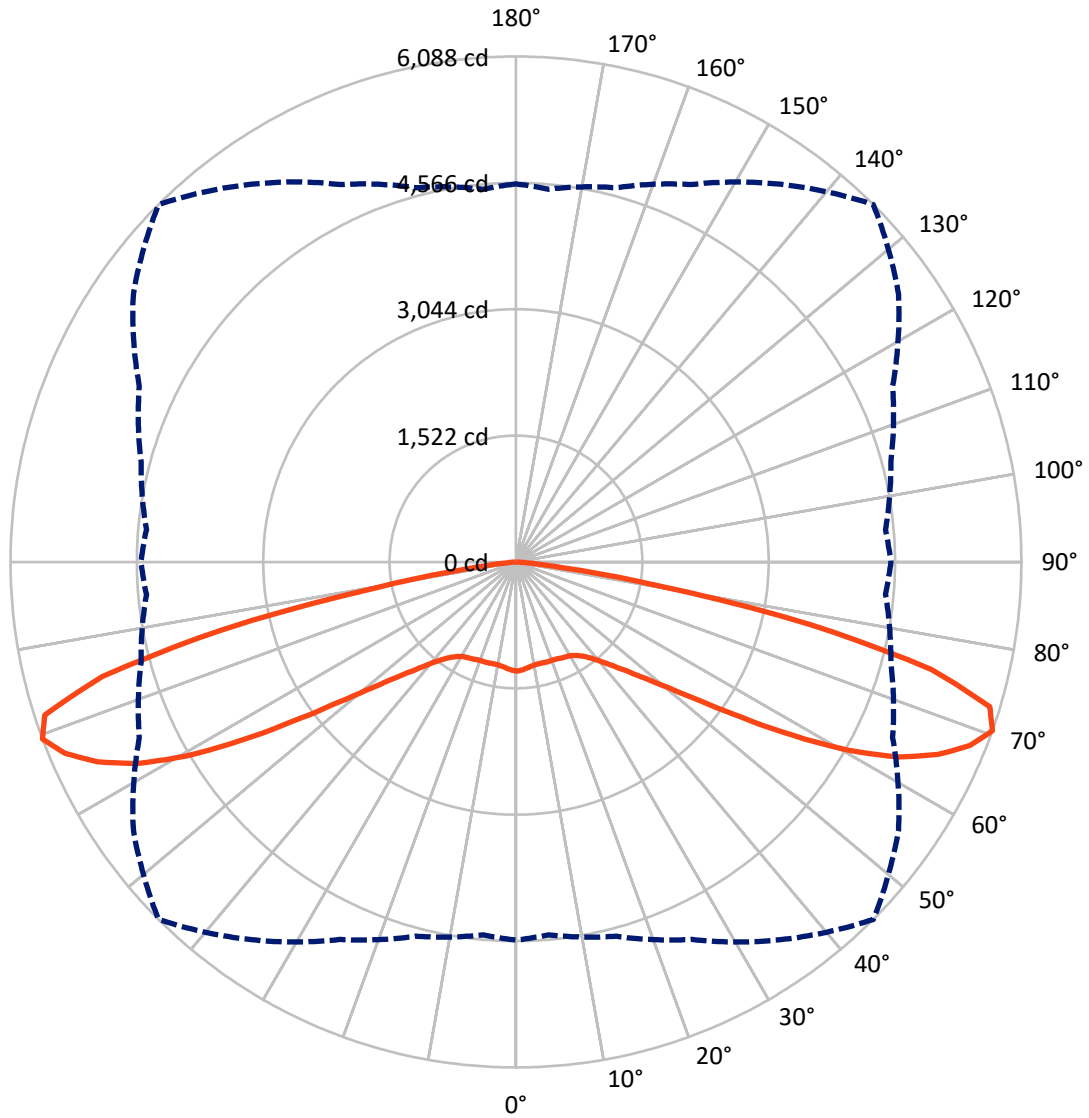
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 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	7207.5	0.0	7207.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	7207.5	0.0	7207.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	14415.0	0.0	14415.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	122.3	0.8
10°-20°	359.2	2.5
20°-30°	597.7	4.1
30°-40°	903.9	6.3
40°-50°	1502.1	10.4
50°-60°	2834.3	19.7
60°-70°	4785.9	33.2
70°-80°	3144.8	21.8
80°-90°	164.8	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°	14415.0	100.0
0°-180°	14415.0	100.0



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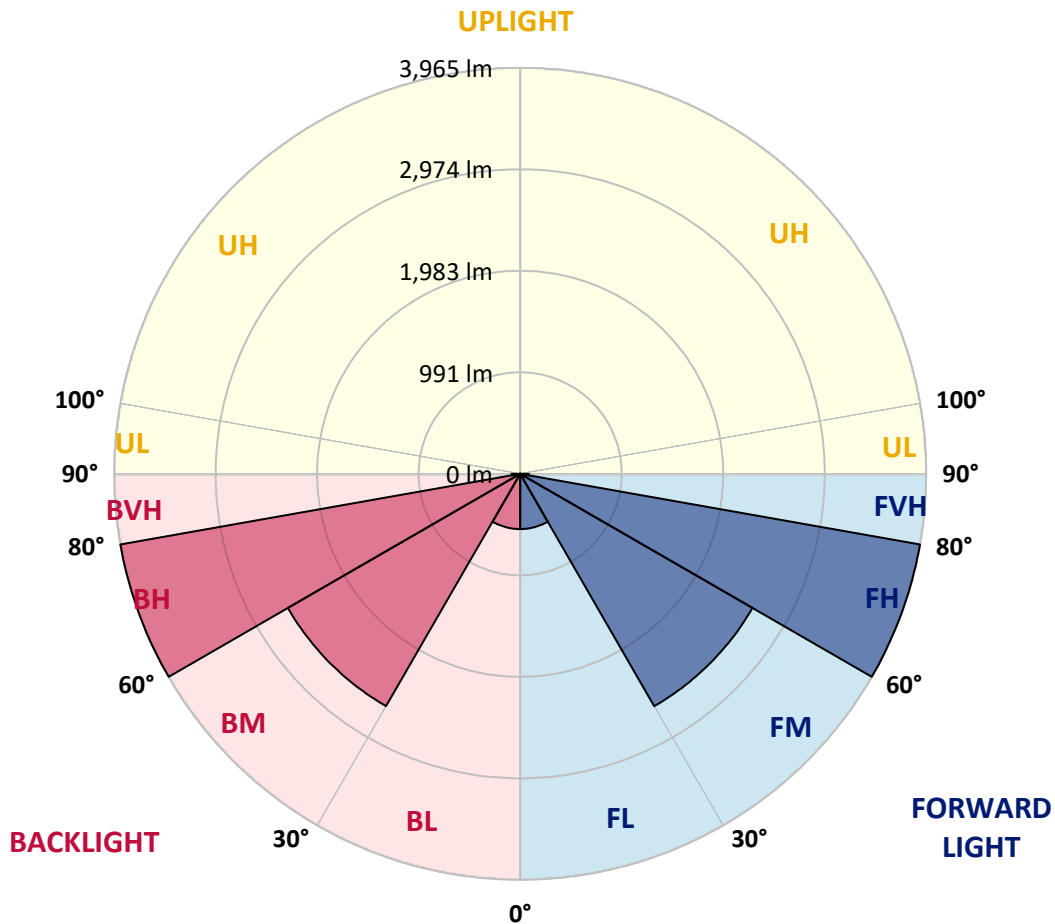
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	539.6	3.7			
FM (30°-60°)	2620.2	18.2			
FH (60°-80°)	3965.4	27.5			G2/5000
FVH (80°-90°)	82.4	0.6			G1/100
BL (0°-30°)	539.6	3.7	B2/1000		
BM (30°-60°)	2620.2	18.2	B3/5000		
BH (60°-80°)	3965.4	27.5	B4/5000		G2/5000
BVH (80°-90°)	82.4	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°	1314.9	1314.9	1314.9	1314.9	1314.9	1314.9	1314.9	1314.9	1314.9	1314.9	1314.9
2.5°	1306.7	1310.4	1308.9	1305.9	1305.9	1303.7	1305.9	1307.4	1309.7	1311.2	1310.4
5°	1289.5	1292.5	1291.7	1289.5	1290.2	1288.0	1289.5	1291.7	1293.2	1294.0	1294.0
7.5°	1274.5	1277.5	1276.0	1272.2	1272.2	1270.0	1270.7	1273.0	1275.2	1276.0	1276.0
10°	1270.7	1273.7	1269.2	1263.2	1261.0	1258.0	1258.7	1261.0	1265.5	1267.7	1267.7
12.5°	1272.2	1274.5	1270.0	1261.0	1258.7	1255.7	1255.7	1258.0	1264.0	1267.0	1267.7
15°	1276.7	1279.0	1272.2	1262.5	1260.2	1258.0	1257.2	1260.2	1267.0	1272.2	1273.0
17.5°	1285.0	1287.2	1276.7	1263.2	1260.2	1261.0	1260.2	1262.5	1273.0	1282.7	1282.7
20°	1292.5	1294.0	1279.7	1263.2	1260.2	1261.0	1260.2	1264.7	1278.2	1291.7	1292.5
22.5°	1294.7	1296.2	1282.7	1268.5	1266.2	1267.0	1266.2	1270.7	1283.5	1297.0	1297.0
25°	1295.5	1297.7	1287.2	1276.0	1279.7	1281.2	1279.7	1280.5	1290.2	1302.2	1301.5
27.5°	1306.7	1309.7	1300.0	1290.2	1292.5	1291.7	1294.0	1296.2	1303.7	1315.7	1312.7
30°	1329.9	1332.2	1323.9	1314.2	1312.7	1307.4	1314.2	1321.7	1329.9	1340.4	1338.2
32.5°	1368.1	1372.6	1362.1	1351.7	1344.9	1341.9	1347.2	1359.9	1371.1	1382.4	1377.9
35°	1431.8	1434.8	1425.1	1405.6	1393.6	1393.6	1398.1	1414.6	1432.6	1446.8	1441.6
37.5°	1521.7	1525.5	1508.2	1485.0	1467.0	1467.0	1473.0	1490.3	1517.2	1537.5	1530.0
40°	1631.1	1636.4	1614.6	1590.7	1573.4	1570.4	1577.9	1597.4	1622.9	1648.4	1640.1
42.5°	1763.0	1769.0	1740.5	1719.5	1706.0	1706.0	1709.8	1727.8	1751.0	1782.5	1780.2
45°	1931.6	1942.1	1903.1	1882.1	1869.4	1872.4	1874.6	1890.4	1911.3	1947.3	1945.8
47.5°	2132.4	2142.9	2101.7	2079.9	2077.7	2091.9	2082.9	2094.2	2105.4	2146.6	2134.6
50°	2360.1	2378.1	2349.7	2348.2	2352.7	2378.9	2357.9	2363.9	2351.2	2377.4	2361.6
52.5°	2638.9	2665.1	2659.8	2668.8	2719.0	2773.0	2725.0	2704.1	2656.1	2664.3	2636.6
55°	2976.8	3016.5	3024.0	3077.9	3191.8	3302.0	3200.1	3115.4	3013.5	2994.8	2965.5
57.5°	3361.1	3392.6	3428.6	3538.7	3751.5	3947.1	3751.5	3564.2	3403.9	3365.6	3338.7
60°	3774.7	3813.7	3848.2	4010.7	4326.9	4601.9	4320.9	4023.5	3811.4	3759.7	3714.8
62.5°	4219.0	4269.2	4293.2	4473.8	4842.4	5170.6	4847.7	4487.3	4252.0	4196.6	4151.6
65°	4645.4	4686.6	4713.5	4906.1	5258.3	5587.2	5282.2	4927.1	4685.1	4612.4	4576.4
67.5°	4843.9	4866.4	4932.3	5150.4	5522.0	5897.4	5584.9	5173.6	4903.1	4775.7	4777.2
70°	4553.2	4507.5	4666.3	5015.5	5553.5	6087.7	5625.4	5005.0	4673.8	4467.0	4516.5
72.5°	3518.5	3439.8	3715.5	4312.7	5193.8	5966.3	5229.8	4346.4	3887.1	3467.5	3571.7
75°	1914.3	1825.2	2205.8	2961.0	4141.9	5171.3	4237.0	3045.7	2456.0	1900.1	2023.7
77.5°	540.2	506.5	813.7	1432.6	2491.3	3630.9	2587.2	1464.0	965.0	572.4	636.1
80°	165.6	160.3	217.3	431.6	1057.9	1739.0	1016.7	436.8	276.5	174.6	184.3
82.5°	98.2	89.9	107.9	157.3	269.7	546.2	262.2	164.1	131.9	88.4	95.9
85°	56.2	52.4	63.7	76.4	90.7	116.1	75.7	77.9	70.4	47.2	49.5
87.5°	23.2	21.0	24.7	24.0	21.0	27.0	20.2	24.0	28.5	18.7	17.2
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)