

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: P963682

Luminaire Tested: **NAV-SB3A-835-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963682
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3A-835-U-5MQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13400.9 lumens
Efficiency: N/A
Efficacy: 158.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

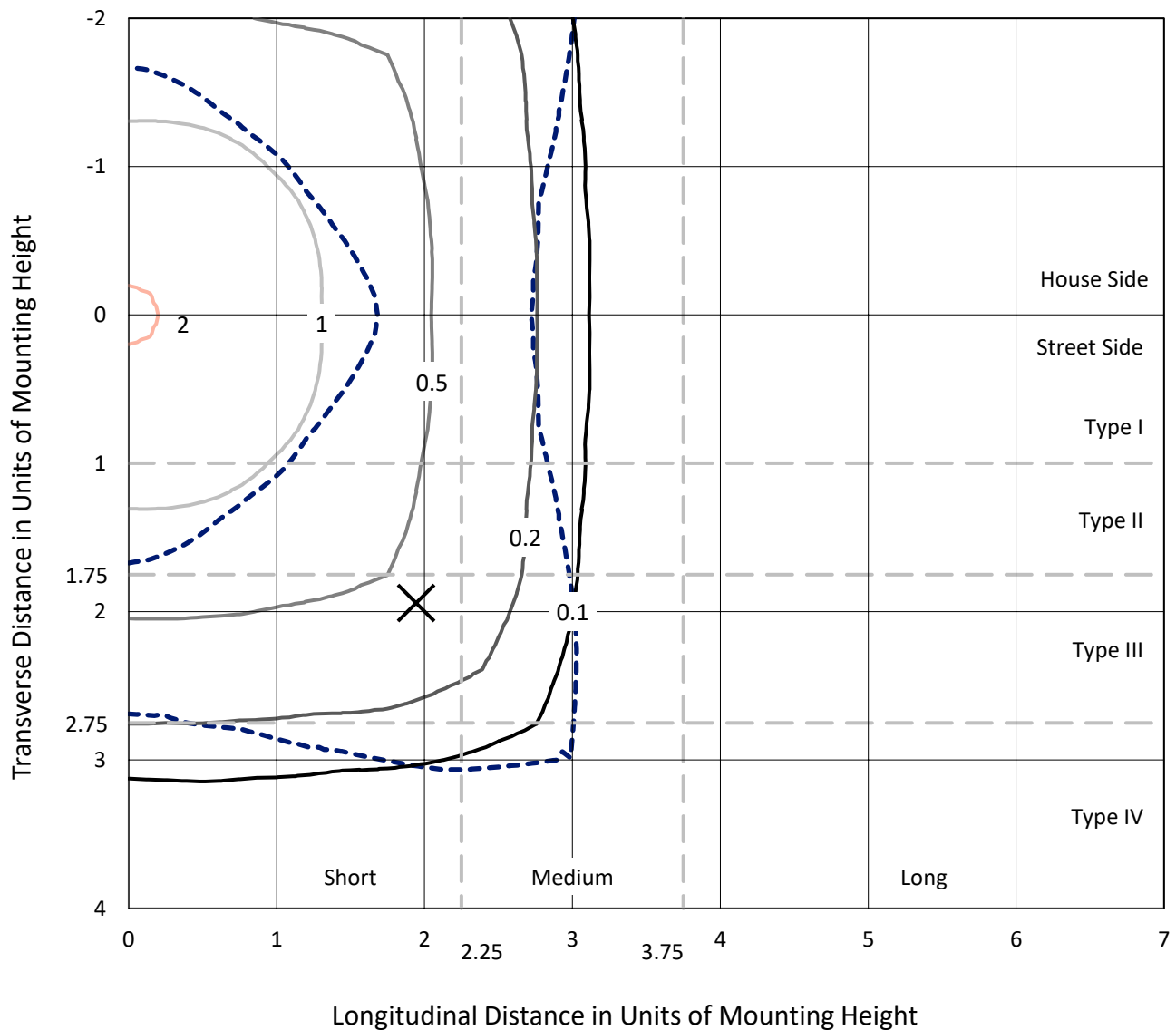


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Iso-Footcandle Lines of Horizontal Illumination

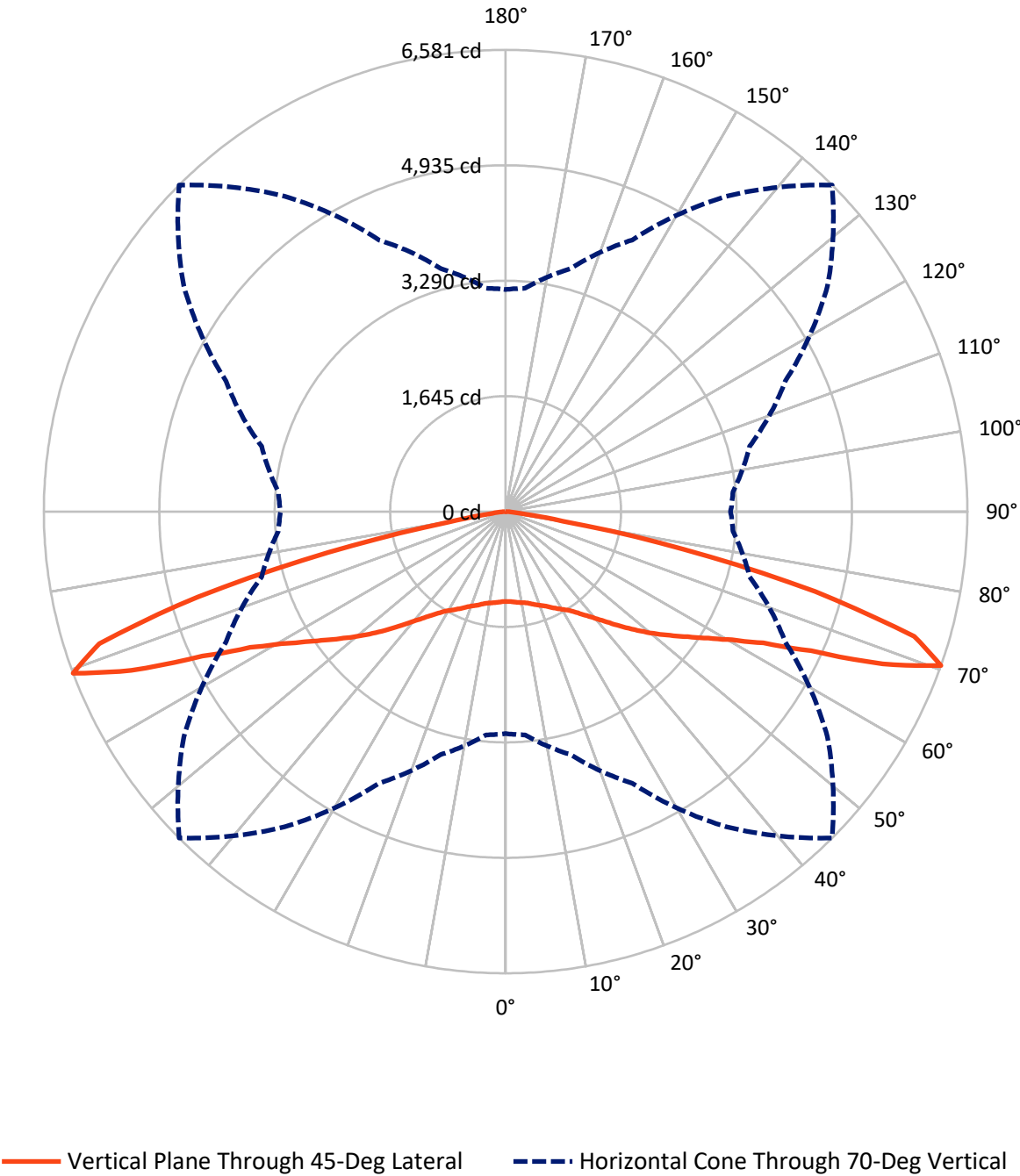
× Max cd
- - - 1/2 Max cd



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



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6700.4	0.0	6700.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6700.4	0.0	6700.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	13400.9	0.0	13400.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.7	0.9
10°-20°	386.7	2.9
20°-30°	691.1	5.2
30°-40°	1120.2	8.4
40°-50°	1824.7	13.6
50°-60°	2782.0	20.8
60°-70°	4138.8	30.9
70°-80°	2255.8	16.8
80°-90°	76.8	0.6
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°	13400.9	100.0
0°-180°	13400.9	100.0

Coefficient of Utilization



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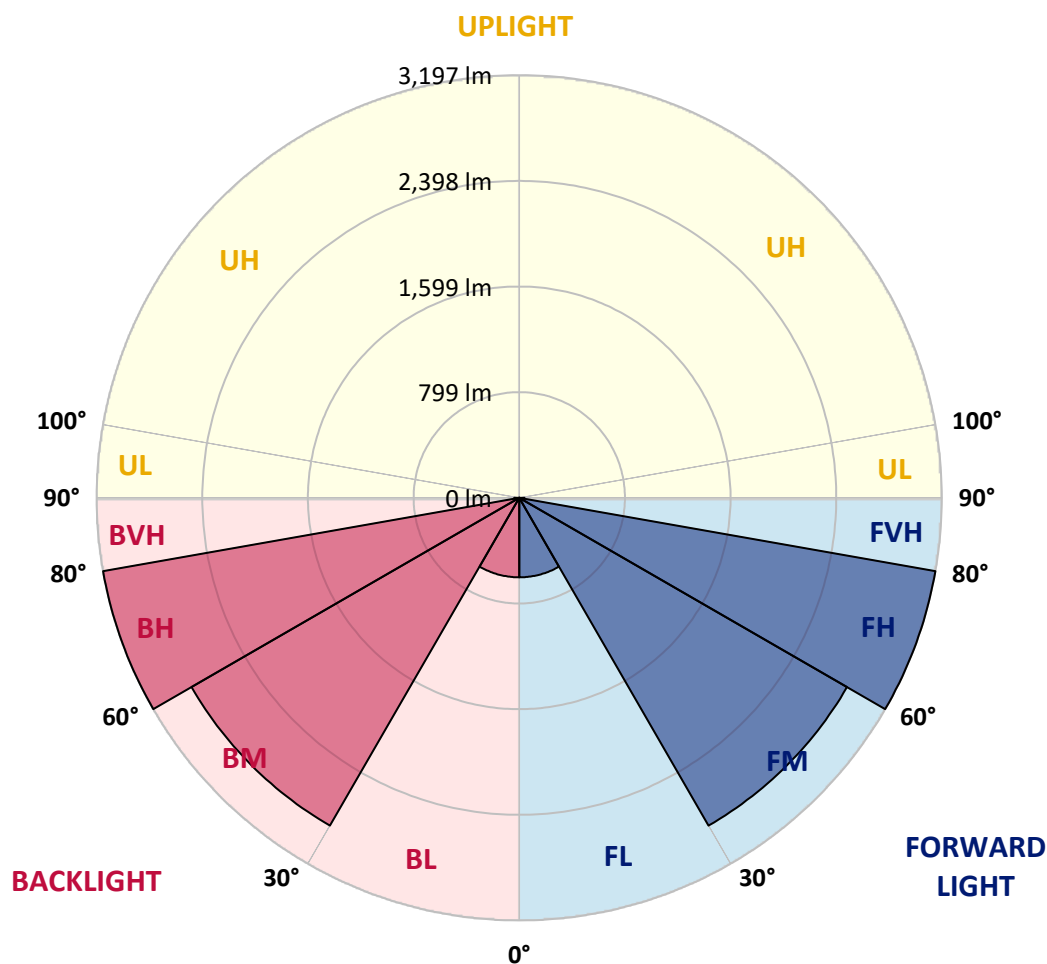
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	601.3	4.5			
FM	(30°-60°)	2863.5	21.4			
FH	(60°-80°)	3197.3	23.9			G2/5000
FVH	(80°-90°)	38.4	0.3			G1/100
BL	(0°-30°)	601.3	4.5	B2/1000		
BM	(30°-60°)	2863.5	21.4	B3/5000		
BH	(60°-80°)	3197.3	23.9	B4/5000		G2/5000
BVH	(80°-90°)	38.4	0.3			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°	1283.7	1283.7	1283.7	1283.7	1283.7	1283.7	1283.7	1283.7	1283.7	1283.7	1283.7
2.5°	1289.8	1291.1	1288.3	1287.0	1285.7	1283.7	1284.3	1287.7	1290.4	1289.8	1290.4
5°	1300.5	1301.9	1299.8	1299.2	1296.4	1295.8	1295.8	1299.2	1301.1	1299.8	1300.5
7.5°	1312.6	1314.6	1311.3	1310.6	1309.2	1307.9	1307.2	1310.6	1312.6	1312.6	1312.6
10°	1324.0	1326.0	1323.4	1321.3	1320.0	1320.0	1318.7	1321.3	1324.7	1324.0	1324.0
12.5°	1336.2	1337.5	1334.8	1333.4	1333.4	1335.5	1333.4	1334.8	1337.5	1336.2	1335.5
15°	1350.9	1351.6	1350.9	1353.0	1356.3	1363.0	1357.0	1355.7	1357.0	1353.6	1353.6
17.5°	1371.1	1372.5	1375.1	1379.9	1384.6	1396.7	1385.9	1382.5	1382.5	1375.9	1375.9
20°	1396.0	1398.0	1402.1	1410.2	1416.2	1427.6	1416.9	1412.1	1410.2	1401.4	1401.4
22.5°	1422.3	1425.6	1431.7	1442.5	1453.2	1464.0	1453.2	1445.1	1439.1	1427.6	1427.0
25°	1452.5	1456.5	1466.0	1483.5	1498.2	1513.7	1501.0	1484.8	1472.7	1456.5	1455.9
27.5°	1495.6	1500.3	1511.8	1533.3	1552.1	1565.6	1553.5	1532.6	1515.8	1496.3	1495.6
30°	1556.2	1560.9	1574.3	1597.2	1610.0	1618.7	1610.6	1594.5	1574.3	1552.1	1552.1
32.5°	1634.2	1640.2	1655.1	1676.6	1679.3	1680.6	1677.9	1669.8	1655.1	1628.1	1628.8
35°	1733.1	1739.8	1756.6	1774.1	1771.4	1774.1	1770.1	1767.4	1756.6	1725.7	1725.7
37.5°	1854.2	1862.2	1879.7	1893.2	1886.5	1883.1	1883.7	1884.5	1878.4	1844.1	1844.1
40°	1994.8	2005.5	2018.3	2032.5	2021.0	2010.9	2017.7	2023.0	2017.7	1982.7	1982.7
42.5°	2139.5	2155.0	2168.4	2188.6	2179.1	2166.3	2175.8	2181.8	2170.3	2132.7	2135.4
45°	2300.2	2315.1	2332.5	2362.8	2356.1	2342.6	2356.1	2357.4	2337.9	2293.5	2298.3
47.5°	2466.5	2481.8	2508.1	2548.5	2545.8	2531.0	2548.5	2539.0	2514.2	2461.0	2457.6
50°	2623.8	2645.3	2685.7	2742.3	2747.6	2729.5	2753.0	2734.8	2693.1	2626.6	2625.2
52.5°	2771.8	2794.8	2858.6	2935.3	2954.9	2931.3	2963.0	2931.3	2868.8	2783.3	2775.2
55°	2927.3	2952.8	3028.9	3129.1	3168.1	3150.6	3180.3	3132.5	3043.6	2940.0	2926.0
57.5°	3110.3	3125.7	3216.6	3335.7	3401.6	3405.6	3419.1	3338.3	3230.7	3112.9	3096.8
60°	3308.7	3330.2	3429.1	3571.8	3676.1	3709.7	3695.5	3575.8	3450.7	3315.5	3293.9
62.5°	3563.0	3586.6	3705.0	3875.8	4040.8	4124.1	4068.9	3895.4	3740.6	3578.5	3550.3
65°	3773.6	3799.9	4013.8	4318.5	4618.6	4786.1	4647.6	4328.0	4049.5	3820.7	3783.1
67.5°	3620.9	3653.2	3988.9	4548.6	5294.7	5794.6	5320.4	4617.3	4071.7	3761.5	3715.1
70°	3164.8	3195.0	3586.6	4270.8	5485.2	6580.5	5599.6	4396.6	3599.4	3252.2	3205.8
72.5°	2101.0	2198.6	2594.9	3415.7	4897.9	6089.3	4946.2	3346.4	2407.2	2096.3	2028.5
75°	697.0	775.0	1045.5	1770.8	3280.5	4554.1	3123.1	1566.9	828.2	596.0	563.8
77.5°	175.6	202.5	279.2	506.6	1308.5	2592.8	1178.0	413.8	225.4	157.4	140.6
80°	85.5	94.2	134.6	168.8	327.7	824.2	307.5	158.8	106.3	82.1	75.3
82.5°	47.0	47.8	76.1	95.5	121.8	213.3	126.5	92.9	61.2	49.8	49.8
85°	28.9	28.3	40.4	51.1	51.1	76.1	60.6	51.1	35.0	31.0	32.3
87.5°	11.5	11.5	14.8	16.2	14.1	19.5	15.5	16.8	13.4	12.8	13.4
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)