

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: P966680

Luminaire Tested: **NAV-SB4C-735-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P966680
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB4C-735-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

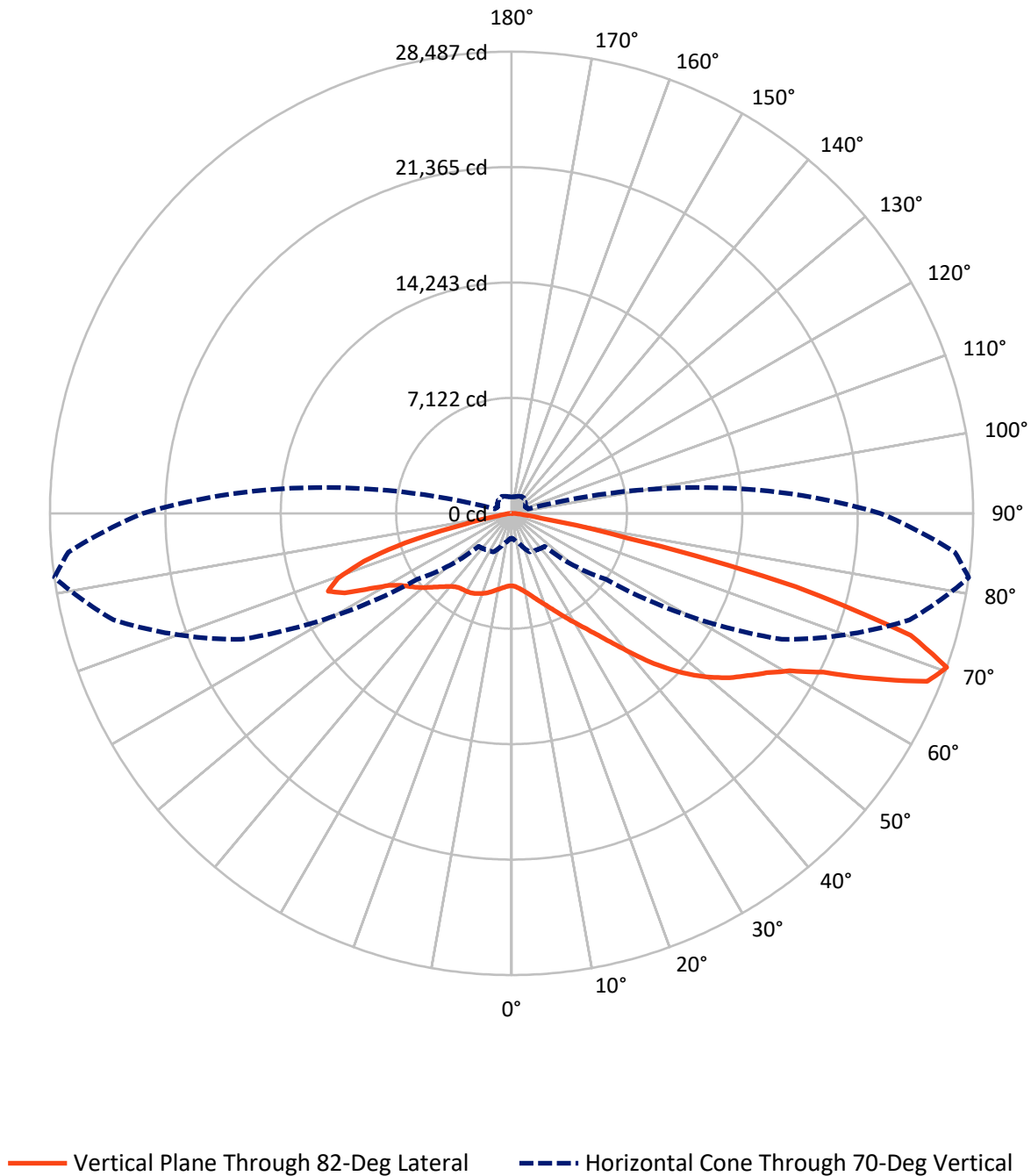
Lumens per Lamp: N/A
Luminaire Lumens: 30483.5 lumens
Efficiency: N/A
Efficacy: 151.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 200.7
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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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7514.9	0.0	7514.9
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	22968.6	0.0	22968.6
	% Fixture	75.3	0.0	75.3
Total	Lumens	30483.5	0.0	30483.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	422.0	1.4
10°-20°	1212.4	4.0
20°-30°	2028.2	6.7
30°-40°	3168.5	10.4
40°-50°	5046.2	16.6
50°-60°	7022.5	23.0
60°-70°	7345.8	24.1
70°-80°	3839.3	12.6
80°-90°	398.7	1.3
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°	30483.5	100.0
0°-180°	30483.5	100.0

Coefficient of Utilization



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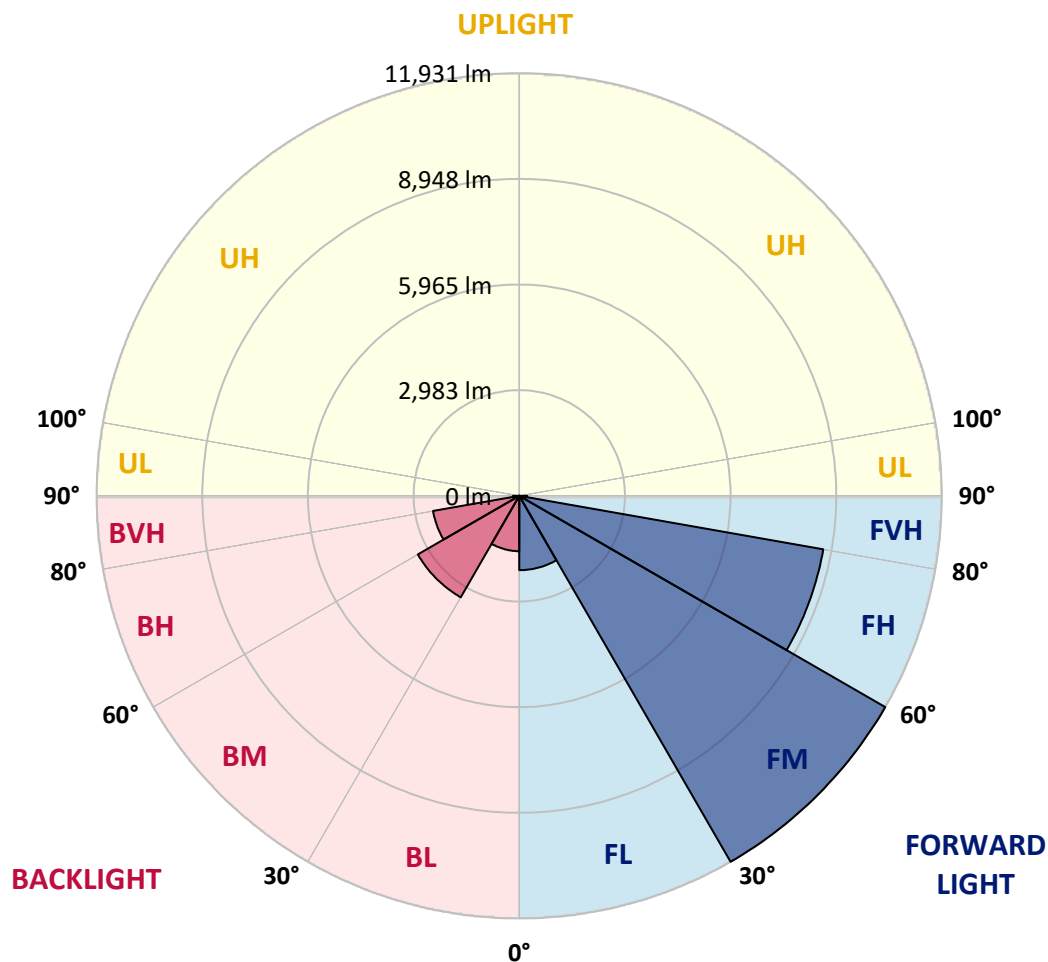
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2099.1	6.9			
FM	(30°-60°)	11930.9	39.1			
FH	(60°-80°)	8715.3	28.6			G4/12000
FVH	(80°-90°)	223.2	0.7			G2/225
BL	(0°-30°)	1563.4	5.1	B3/2500		
BM	(30°-60°)	3306.3	10.8	B3/5000		
BH	(60°-80°)	2469.8	8.1	B3/2500		G3/2500
BVH	(80°-90°)	175.5	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	4469.3	4469.3	4469.3	4469.3	4469.3	4469.3	4469.3	4469.3	4469.3	4469.3	4469.3
2.5°	4576.0	4601.9	4593.8	4585.7	4585.7	4574.4	4572.8	4556.6	4543.6	4522.6	4517.8
5°	4634.2	4661.7	4658.5	4665.0	4686.0	4690.9	4695.7	4686.0	4660.2	4634.2	4623.0
7.5°	4582.5	4613.2	4623.0	4661.7	4726.5	4784.7	4828.4	4846.2	4821.9	4784.7	4766.9
10°	4407.8	4441.7	4475.8	4567.9	4682.8	4820.3	4936.7	5006.3	5001.4	4965.8	4935.1
12.5°	4053.6	4089.1	4161.9	4341.5	4551.7	4794.4	5011.1	5156.7	5206.9	5181.0	5127.6
15°	3770.5	3801.2	3856.3	4040.7	4314.0	4682.8	5038.6	5321.7	5449.5	5435.0	5370.3
17.5°	3762.4	3775.4	3809.3	3896.6	4107.0	4508.1	5009.5	5483.4	5727.7	5726.1	5645.2
20°	3904.7	3909.6	3929.0	3946.8	4066.5	4375.4	4935.1	5617.7	6039.9	6039.9	5952.6
22.5°	4102.0	4098.9	4118.2	4102.0	4160.3	4364.1	4888.2	5735.8	6387.7	6413.5	6303.5
25°	4398.1	4381.9	4377.1	4339.8	4351.2	4469.3	4940.0	5870.1	6800.2	6853.6	6716.0
27.5°	4792.8	4766.9	4749.1	4663.3	4634.2	4686.0	5098.5	6031.8	7259.6	7351.7	7177.0
30°	5307.1	5260.2	5234.4	5085.5	4980.4	4988.5	5337.9	6247.0	7739.9	7888.7	7667.1
32.5°	6009.2	5936.4	5866.8	5622.5	5430.0	5367.0	5646.8	6544.5	8260.8	8498.6	8213.8
35°	6795.2	6737.0	6662.6	6285.7	5989.8	5844.1	6064.2	6960.3	8870.6	9247.4	8877.0
37.5°	7552.3	7502.2	7537.7	7029.9	6648.0	6436.2	6610.8	7518.4	9622.7	10179.2	9708.5
40°	8335.2	8296.3	8301.2	7815.9	7371.1	7133.4	7274.1	8218.8	10484.9	11287.2	10708.1
42.5°	9186.0	9156.9	9059.9	8629.6	8129.8	7908.2	8037.5	9027.5	11410.1	12548.9	11804.8
45°	10138.8	10121.0	10030.3	9537.0	8964.4	8715.3	8890.0	9920.4	12340.2	13736.1	12906.4
47.5°	10962.1	10976.6	10965.3	10549.6	9955.9	9590.4	9799.1	10852.1	13205.6	14852.2	13962.7
50°	11358.3	11434.4	11546.0	11416.6	11047.8	10675.8	10716.2	11751.4	14030.5	15898.8	14975.1
52.5°	11151.3	11295.3	11599.4	11806.5	11948.7	11871.1	11762.8	12644.3	14806.9	16843.4	15932.8
55°	10379.8	10581.9	11086.6	11586.4	12312.7	12877.3	13019.6	13634.2	15564.0	17674.9	16838.6
57.5°	8974.1	9302.5	9755.3	10766.4	11989.2	13364.2	14485.1	15007.5	16366.3	18562.9	17786.5
60°	6564.0	7003.9	7566.9	9071.1	10856.9	13103.7	15732.2	17116.8	17506.6	19713.0	19020.6
62.5°	4200.8	4472.5	4990.1	6407.1	8459.7	11769.3	16113.9	19753.4	19439.6	21599.0	20871.2
65°	2875.9	3050.7	3524.7	4320.5	5468.9	8760.6	15091.7	21730.0	22509.7	24588.2	24035.0
67.5°	2089.9	2222.5	2626.9	3324.1	3563.4	5184.2	11711.0	21639.5	25494.0	27668.0	26807.4
70°	1523.8	1617.6	1957.2	2626.9	2741.8	2884.0	7094.5	18394.6	25429.3	28486.5	27456.2
72.5°	1129.0	1193.7	1421.8	2038.1	2219.2	1947.5	3511.6	13369.0	21851.4	25765.8	24939.3
75°	816.8	865.4	1033.6	1559.3	1776.0	1483.3	1751.8	7812.8	15242.1	18124.6	18270.1
77.5°	624.3	661.5	771.5	1142.0	1421.8	1112.8	1087.0	3594.2	7227.2	7262.7	7670.4
80°	501.4	525.7	585.6	803.9	1090.2	833.0	708.5	1450.9	2284.0	1932.9	2028.4
82.5°	368.8	409.3	495.0	564.6	779.6	574.2	431.8	732.8	868.6	747.3	753.8
85°	210.3	237.8	299.2	404.4	498.3	351.0	247.4	325.1	404.4	331.6	296.0
87.5°	74.4	97.1	105.2	158.6	216.8	145.5	95.4	93.8	132.6	98.7	82.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4469.3	4469.3	4469.3	4469.3	4469.3	4469.3	4469.3	4469.3	4469.3	4469.3	4469.3
2.5°	4501.6	4493.5	4461.2	4417.5	4372.2	4328.6	4314.0	4283.3	4262.3	4250.9	4263.8
5°	4592.2	4566.3	4490.3	4393.3	4291.4	4181.4	4103.7	4032.6	3980.8	3932.2	3951.7
7.5°	4721.6	4676.4	4545.3	4375.4	4194.3	4011.5	3875.6	3772.1	3702.5	3657.3	3666.9
10°	4872.0	4802.4	4601.9	4347.9	4068.1	3806.0	3645.9	3557.0	3513.3	3489.0	3495.5
12.5°	5045.2	4946.4	4660.2	4284.9	3875.6	3576.4	3466.3	3440.5	3442.2	3443.7	3447.0
15°	5258.7	5121.1	4707.0	4147.4	3624.9	3400.0	3380.7	3422.7	3466.3	3487.5	3485.8
17.5°	5499.6	5305.5	4715.1	3920.9	3379.0	3286.9	3348.3	3438.9	3505.2	3534.3	3540.8
20°	5758.4	5493.2	4656.9	3600.6	3176.9	3194.6	3304.6	3421.1	3493.9	3531.1	3540.8
22.5°	6054.5	5693.8	4517.8	3264.2	3011.9	3094.4	3223.7	3337.0	3413.0	3450.3	3459.9
25°	6392.5	5918.6	4299.5	2981.1	2869.5	2981.1	3110.6	3204.4	3265.9	3299.8	3309.5
27.5°	6767.8	6153.1	4008.3	2756.3	2745.0	2864.7	2971.4	3044.2	3076.5	3102.5	3112.1
30°	7144.7	6366.7	3655.7	2586.5	2636.6	2749.8	2825.8	2858.2	2867.8	2872.8	2884.0
32.5°	7552.3	6551.1	3285.2	2445.8	2533.1	2638.2	2683.4	2698.1	2652.8	2622.1	2631.7
35°	8045.6	6748.4	2922.9	2334.1	2431.2	2521.7	2536.3	2523.3	2469.9	2406.9	2410.2
37.5°	8655.4	6994.3	2633.3	2254.9	2335.8	2395.5	2377.8	2374.5	2379.4	2305.0	2309.8
40°	9402.7	7314.5	2421.5	2193.4	2258.1	2271.0	2220.9	2248.3	2272.6	2159.4	2162.6
42.5°	10232.6	7701.1	2287.2	2151.4	2193.4	2162.6	2085.1	2115.7	2112.5	1963.7	1962.1
45°	11078.5	8121.7	2240.3	2120.6	2133.5	2072.0	1986.3	1994.4	1926.5	1792.2	1797.1
47.5°	11919.6	8573.0	2269.5	2094.7	2059.1	1989.5	1923.2	1887.6	1787.4	1687.0	1687.0
50°	12744.6	9046.9	2376.2	2042.9	1957.2	1916.7	1868.3	1805.1	1698.4	1612.7	1606.2
52.5°	13509.7	9524.1	2495.9	1957.2	1829.4	1853.7	1823.0	1750.2	1645.0	1557.7	1559.3
55°	14234.4	10001.2	2542.8	1839.2	1709.7	1798.7	1780.9	1646.7	1520.5	1449.4	1442.9
57.5°	15023.7	10575.4	2491.1	1688.7	1612.7	1735.6	1667.7	1518.8	1446.1	1392.7	1387.8
60°	16117.2	11476.4	2379.4	1502.6	1520.5	1641.8	1525.3	1463.9	1384.6	1324.8	1321.5
62.5°	17933.7	13157.1	2199.9	1318.3	1412.1	1502.6	1457.4	1395.9	1315.1	1256.9	1256.9
65°	20618.8	15492.8	1861.8	1174.3	1290.8	1366.8	1384.6	1323.2	1239.0	1177.5	1180.8
67.5°	22883.3	16958.3	1408.9	1054.6	1166.2	1256.9	1307.0	1247.1	1158.1	1098.3	1099.9
70°	22758.8	15894.0	1075.6	936.5	1056.3	1148.4	1213.2	1166.2	1070.8	1014.2	1019.1
72.5°	20214.4	13296.2	870.2	816.8	944.6	1035.2	1112.8	1077.3	980.2	925.3	925.3
75°	14850.6	9438.3	695.6	695.6	805.5	917.2	1002.9	980.2	891.2	852.5	841.1
77.5°	6259.9	3959.8	545.1	577.5	669.6	787.7	894.5	902.6	824.9	873.5	792.6
80°	1664.5	1091.8	415.7	454.5	525.7	650.3	778.1	774.8	690.6	645.4	600.1
82.5°	634.1	430.3	296.0	320.3	380.2	498.3	616.3	635.7	551.6	477.1	477.1
85°	244.3	184.4	182.8	192.5	221.6	329.9	465.9	482.1	415.7	352.6	364.0
87.5°	63.0	55.0	68.0	64.7	101.9	176.3	266.9	276.6	254.0	147.2	210.3
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)