

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: P959848

Luminaire Tested: **NAV-SB1B-740-U-SL4-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959848
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1B-740-U-SL4-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 4000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV SPILL LIGHT
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

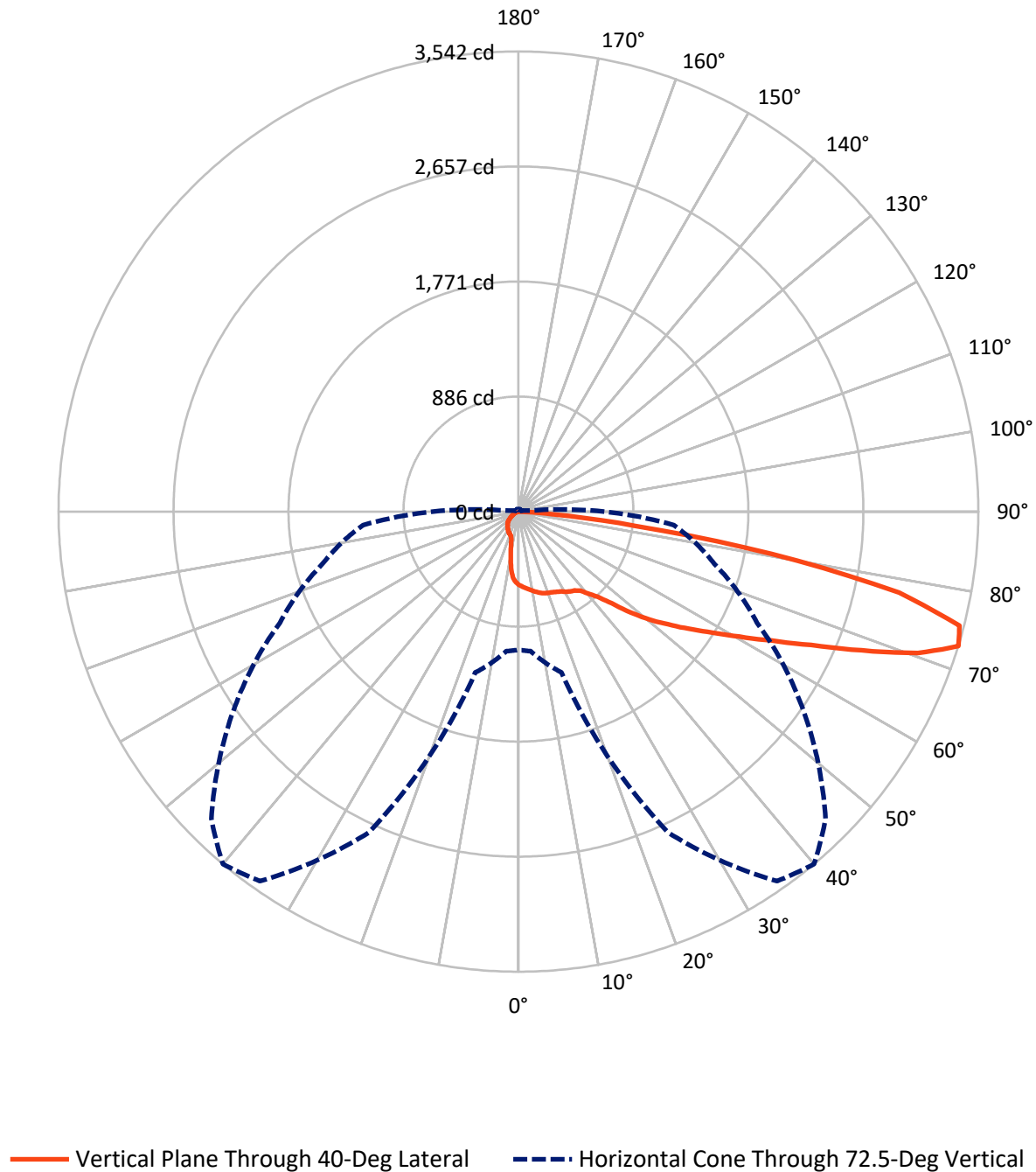
Lumens per Lamp: N/A
Luminaire Lumens: 4264 lumens
Efficiency: N/A
Efficacy: 107.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 39.8
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	550.6	0.0	550.6
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	3713.3	0.0	3713.3
	% Fixture	87.1	0.0	87.1
Total	Lumens	4264.0	0.0	4264.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.6	1.2
10°-20°	140.0	3.3
20°-30°	226.6	5.3
30°-40°	334.5	7.8
40°-50°	563.0	13.2
50°-60°	874.1	20.5
60°-70°	1093.8	25.7
70°-80°	895.5	21.0
80°-90°	84.9	2.0
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°	4264.0	100.0
0°-180°	4264.0	100.0

Coefficient of Utilization



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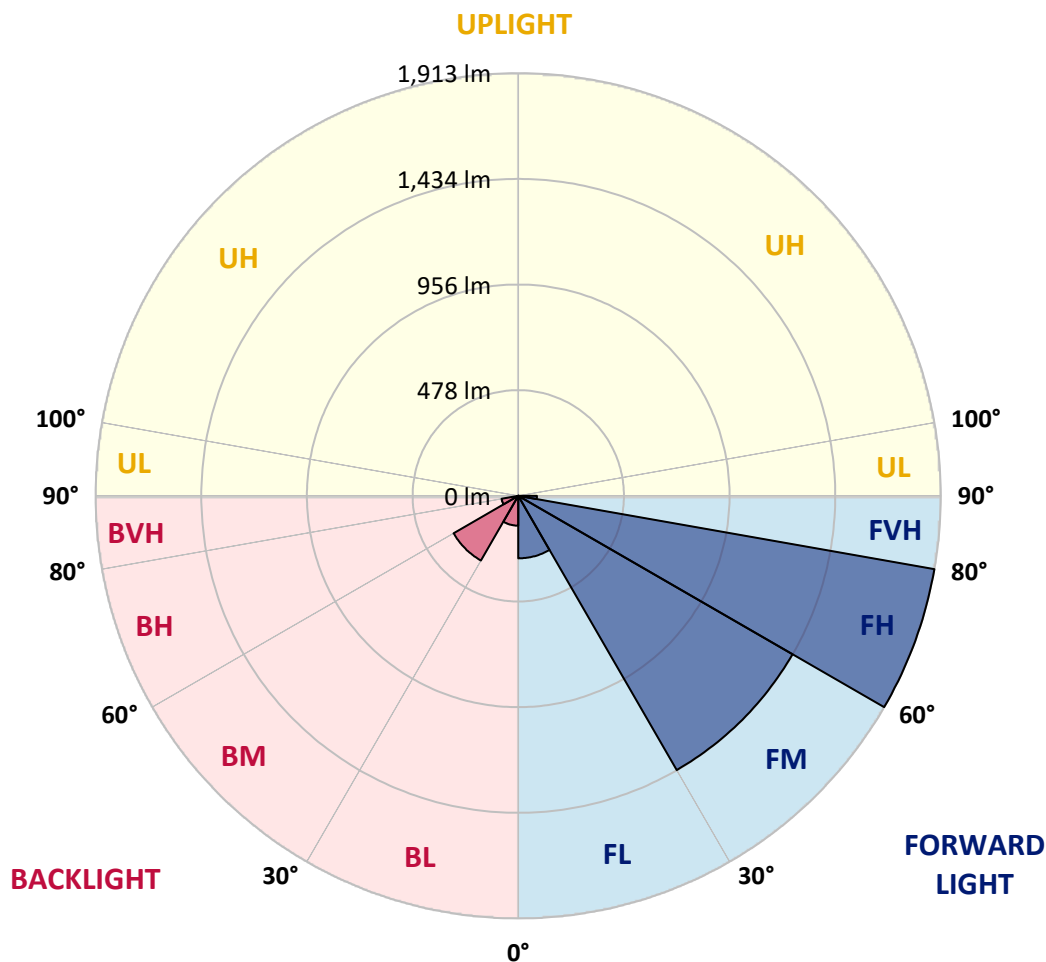
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	283.0	6.6			
FM	(30°-60°)	1433.5	33.6			
FH	(60°-80°)	1912.6	44.9			G2/5000
FVH	(80°-90°)	84.3	2.0			G1/100
BL	(0°-30°)	135.2	3.2	B1/500		
BM	(30°-60°)	338.1	7.9	B1/1000		
BH	(60°-80°)	76.7	1.8	B0/110		G0/110
BVH	(80°-90°)	0.6	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	564.6	564.6	564.6	564.6	564.6	564.6	564.6	564.6	564.6	564.6	564.6
2.5°	581.6	583.8	582.6	580.0	579.3	578.1	576.5	575.8	573.6	571.6	569.4
5°	598.0	600.2	598.6	595.1	593.5	591.8	589.7	587.7	583.2	579.0	573.9
7.5°	615.9	617.9	615.9	610.8	608.2	606.3	603.1	600.2	595.1	589.0	582.6
10°	635.9	637.4	634.6	627.8	623.7	620.7	617.9	614.7	609.9	603.1	595.4
12.5°	654.5	656.4	651.9	643.9	639.1	636.2	633.0	630.4	625.6	619.2	611.1
15°	671.6	674.4	666.8	658.0	652.6	650.4	647.1	645.5	642.3	637.9	630.4
17.5°	684.4	686.3	678.2	668.0	661.9	660.3	658.0	659.0	658.4	656.1	651.3
20°	695.3	696.6	686.0	673.4	666.8	667.1	666.4	669.6	670.9	670.9	670.6
22.5°	708.8	709.1	695.7	679.9	671.9	674.1	675.1	678.6	681.2	683.8	689.5
25°	726.4	725.8	709.7	688.2	681.2	684.4	686.6	687.9	690.8	694.9	708.2
27.5°	752.8	750.8	730.3	701.7	693.4	696.3	700.5	699.8	698.5	701.7	723.9
30°	786.2	783.6	756.3	720.7	713.0	715.6	716.8	711.0	701.7	704.6	737.7
32.5°	839.2	834.7	796.7	741.9	730.0	732.9	731.2	719.3	705.6	708.5	751.5
35°	931.3	920.4	866.8	786.2	749.3	746.0	742.2	730.6	713.6	710.7	763.0
37.5°	1127.3	1108.0	1016.5	872.6	792.9	772.0	760.1	748.7	722.3	710.7	776.2
40°	1348.2	1328.6	1222.9	1017.1	865.5	830.1	802.0	769.8	731.2	714.9	796.7
42.5°	1578.8	1557.3	1448.7	1196.3	969.2	896.7	844.0	786.8	746.0	727.7	824.1
45°	1836.4	1809.3	1667.5	1383.2	1119.8	1007.2	911.7	821.8	771.7	750.5	861.3
47.5°	2108.0	2073.1	1885.5	1564.7	1282.1	1160.0	1035.8	884.5	809.6	784.5	911.7
50°	2348.9	2314.2	2110.6	1754.5	1433.7	1305.4	1177.0	971.2	866.4	832.7	979.5
52.5°	2522.0	2495.7	2315.5	1950.4	1591.3	1442.0	1305.1	1072.0	938.4	894.4	1059.4
55°	2637.9	2613.9	2460.7	2136.0	1774.7	1592.2	1431.4	1181.5	1025.1	968.3	1147.8
57.5°	2708.3	2694.5	2565.7	2301.7	1956.4	1756.7	1575.9	1302.0	1127.3	1055.3	1246.4
60°	2733.4	2722.1	2630.9	2459.7	2176.2	1954.3	1745.8	1437.8	1251.2	1154.3	1347.6
62.5°	2666.5	2668.8	2677.8	2647.0	2407.7	2185.4	1949.4	1600.9	1388.7	1266.3	1442.6
65°	2352.2	2370.7	2541.6	2854.4	2714.4	2475.2	2208.6	1800.1	1546.0	1393.8	1518.1
67.5°	1947.5	1974.5	2187.0	2975.8	3041.3	2851.2	2569.6	2053.8	1733.6	1523.6	1546.7
70°	1490.8	1519.7	1777.2	2950.5	3347.3	3262.3	3016.0	2376.6	1927.9	1613.5	1473.7
72.5°	1063.9	1078.7	1281.8	2724.7	3472.9	3542.3	3344.8	2682.3	2027.1	1563.7	1202.1
75°	747.6	745.1	879.7	2194.1	3277.3	3508.3	3229.6	2516.9	1834.4	1242.2	741.2
77.5°	325.6	326.3	439.3	1332.5	2615.8	2996.4	2684.5	1576.6	1278.8	658.4	312.8
80°	84.5	87.0	161.2	530.5	1574.9	1977.6	1637.2	693.0	590.9	160.6	59.8
82.5°	29.8	31.8	74.2	166.7	581.0	906.9	729.0	221.6	154.2	45.9	16.1
85°	8.7	10.2	39.9	51.0	120.1	256.2	176.9	43.0	37.9	23.8	4.2
87.5°	0.0	1.3	8.0	7.1	7.1	4.8	9.0	4.8	6.1	2.9	1.3
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°	564.6	564.6	564.6	564.6	564.6	564.6	564.6	564.6	564.6	564.6	564.6
2.5°	567.4	565.2	560.4	555.2	550.4	545.9	544.7	539.9	537.6	537.9	537.6
5°	570.4	566.2	556.9	545.6	534.1	520.9	510.0	494.6	481.4	479.8	478.9
7.5°	578.1	571.3	556.3	534.4	505.5	469.2	435.5	402.1	383.1	372.9	372.2
10°	590.0	581.0	557.8	516.1	454.8	389.9	338.9	296.7	275.2	265.3	263.3
12.5°	604.1	594.1	560.4	484.9	389.2	304.1	248.9	223.2	218.7	218.0	217.7
15°	624.0	613.1	563.3	442.9	318.3	231.5	206.2	206.5	210.0	212.0	211.7
17.5°	646.2	635.2	559.1	391.4	248.3	197.8	197.2	200.1	205.2	207.2	206.8
20°	668.6	658.4	544.4	331.1	200.7	188.5	191.1	194.3	199.5	202.0	202.0
22.5°	691.8	682.8	520.9	266.9	181.1	181.7	185.0	188.2	193.9	196.9	196.9
25°	716.5	708.8	489.7	213.9	172.8	174.7	178.9	182.8	188.8	192.4	192.4
27.5°	741.6	735.7	454.4	178.6	165.0	167.3	172.1	177.3	183.4	187.6	187.9
30°	768.9	765.7	426.2	165.4	157.6	159.6	165.0	170.9	177.6	182.8	183.4
32.5°	796.7	796.1	412.4	175.1	151.0	152.2	157.0	162.9	171.2	177.6	178.2
35°	824.4	825.6	404.4	202.3	148.7	145.1	148.4	153.5	163.5	171.5	172.8
37.5°	859.8	862.9	404.1	231.9	154.2	138.1	140.3	143.9	152.5	161.8	163.5
40°	912.4	929.5	424.6	257.3	163.8	131.7	132.3	132.9	137.5	145.1	147.7
42.5°	982.4	1032.2	498.8	274.6	167.7	125.9	123.6	120.1	119.5	123.6	125.9
45°	1069.5	1156.5	629.1	284.2	163.8	119.5	113.4	104.0	100.6	103.4	103.4
47.5°	1171.9	1292.6	783.6	286.5	157.3	111.4	100.6	88.4	85.4	86.4	86.1
50°	1271.7	1394.8	919.4	267.8	146.8	101.2	86.4	76.2	74.2	74.5	74.5
52.5°	1360.1	1429.8	958.0	223.9	132.6	88.7	74.2	67.1	65.8	65.8	65.5
55°	1418.5	1391.8	854.2	171.2	115.0	75.7	63.6	60.1	59.4	59.1	58.4
57.5°	1430.7	1268.5	645.2	123.6	89.9	64.0	56.5	54.6	53.3	52.1	51.4
60°	1387.0	1063.0	410.7	86.4	67.4	54.6	50.1	48.8	46.2	43.7	42.7
62.5°	1292.6	802.9	227.3	60.1	54.3	46.5	44.3	42.7	37.9	33.7	32.4
65°	1165.8	533.7	100.6	46.8	44.3	39.2	37.9	35.7	29.8	25.0	24.1
67.5°	1038.3	307.3	45.3	37.6	35.7	32.1	31.2	29.5	25.4	20.9	20.2
70°	892.8	155.8	31.2	29.8	27.6	24.4	25.4	25.0	20.9	17.0	16.4
72.5°	664.8	77.4	23.5	22.4	19.9	17.3	20.9	20.6	16.4	12.8	12.2
75°	376.4	38.2	17.0	15.8	11.9	12.8	16.7	15.8	11.3	8.3	7.7
77.5°	149.3	19.6	11.3	9.6	7.1	8.7	12.2	10.6	5.7	3.5	3.2
80°	34.3	9.6	5.7	4.2	3.2	5.1	6.5	3.9	1.6	0.3	0.0
82.5°	9.6	4.2	1.9	1.6	1.6	1.9	1.6	0.6	0.0	0.0	0.0
85°	3.2	1.9	0.6	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0
87.5°	1.3	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)