

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: METALUX

Report Number: P730669

Luminaire Tested: **HBLED-LD5-24HE-N-CL-WG-UNV-L850**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730669
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33344)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-24HE-N-CL-WG-UNV-L850
Description: 24000 LUMEN, HE HBLED WITH NARROW DISTRIBUTION AND CLEAR ACRYLIC LENS, WIREGUARD & DOOR FRAME
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22225.0 lumens
Efficiency: N/A
Efficacy: 155.4 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.81 / 0.91
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

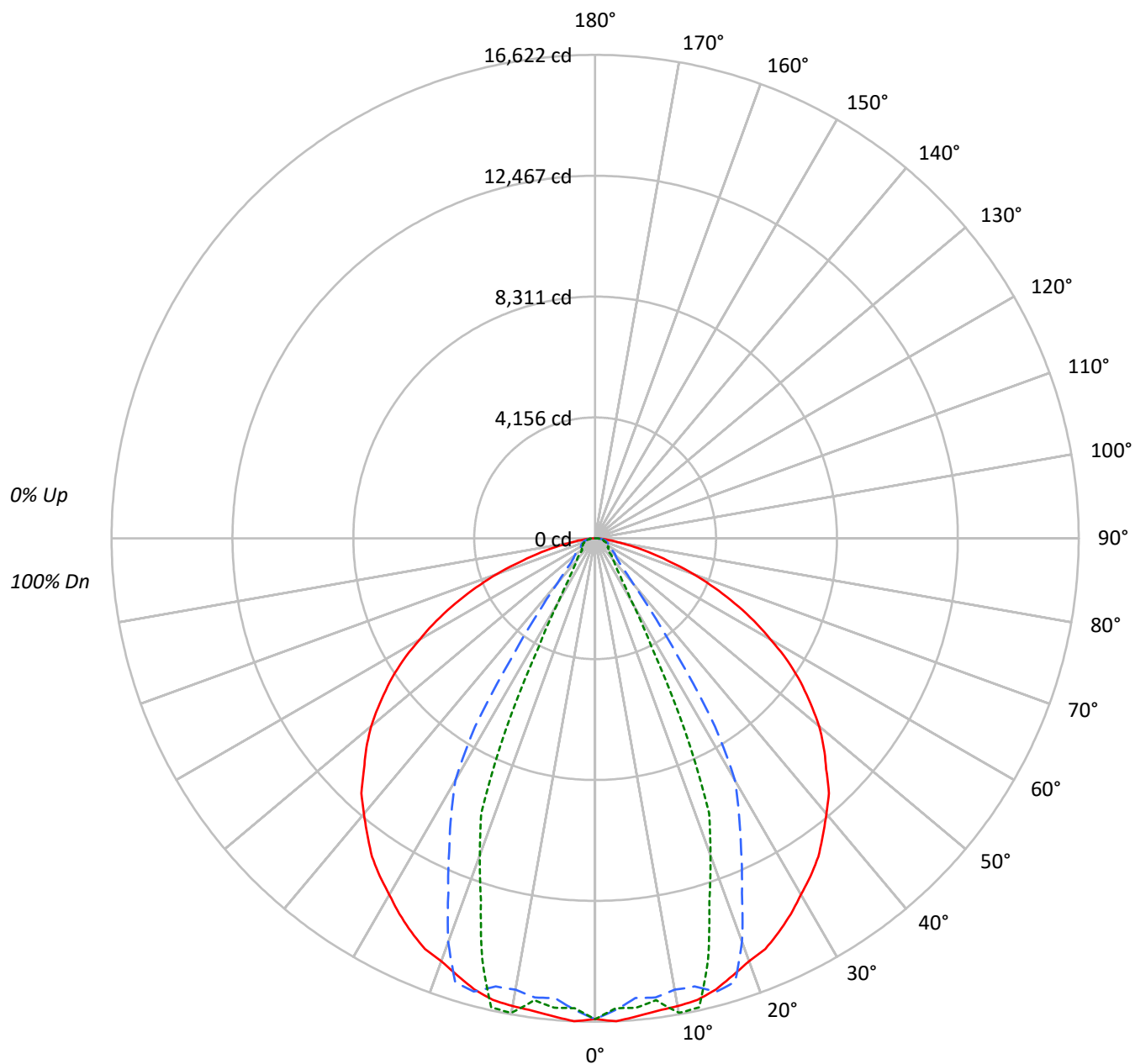
Input Watts (W): 143
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P730669

CATALOG NUMBER: HBLED-LD5-24HE-N-CL-WG-UNV-L850

Luminous Intensity Polar Plot





TEST NUMBER: P730669

CATALOG NUMBER: HBLED-LD5-24HE-N-CL-WG-UNV-L850

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	111	108	104	101	109	105	103	100		101	99	97		98	96	94		94	92	91
2	104	97	92	88	101	96	91	87		92	88	85		89	86	83		86	84	81
3	97	89	82	77	95	87	81	76		84	79	75		82	77	74		79	76	73
4	90	81	74	68	88	80	73	68		77	72	67		75	70	66		73	69	65
5	85	74	67	62	83	73	66	61		71	65	61		69	64	60		68	63	59
6	79	68	61	56	78	68	61	56		66	60	55		64	59	55		63	58	54
7	75	63	56	51	73	63	56	51		61	55	50		60	54	50		59	54	50
8	70	59	52	47	69	58	51	47		57	51	46		56	50	46		55	50	46
9	66	55	48	43	65	54	48	43		53	47	43		52	47	43		52	46	43
10	63	52	45	40	62	51	45	40		50	44	40		49	44	40		48	43	40

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	26693	26693	26693
5°	26737	25718	26260
10°	26775	25842	27168
15°	26835	26975	25071
20°	26581	25371	19900
25°	26620	21151	12999
30°	26381	17918	4670
35°	26353	9707	2627
40°	26055	4232	2057
45°	25652	2615	1613
50°	25252	2278	1523
55°	24259	1976	1490
60°	22508	1770	1601
65°	20232	2001	1749
70°	16968	2151	1804
75°	12684	2454	1953
80°	7967	2849	2227
85°	5306	3570	3260



TEST NUMBER: P730669

CATALOG NUMBER: HBLED-LD5-24HE-N-CL-WG-UNV-L850

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1532.3	6.9
10°-20°	4326.9	19.5
20°-30°	5298.4	23.8
30°-40°	4160.8	18.7
40°-50°	3085.5	13.9
50°-60°	1878.4	8.5
60°-70°	1125.2	5.1
70°-80°	617.3	2.8
80°-90°	200.2	0.9
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°-30°	11157.5	50.2
0°-40°	15318.3	68.9
0°-60°	20282.2	91.3
0°-90°	22225.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	22225.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16532	16532	16532	16532	16532	
5°	16496	16047	15868	16043	16202	###
15°	16054	15614	16138	15486	14999	4520
25°	14942	14989	11873	9312	7297	6878
35°	13370	12162	4925	1648	1333	8343
45°	11234	8067	1145	868	706	8687
55°	8618	2223	702	594	529	7669
65°	5296	655	524	492	458	5232
75°	2033	413	393	342	313	2202
85°	286	225	193	177	176	349
90°	0	0	0	0	0	



TEST NUMBER: P730669

CATALOG NUMBER: HBLED-LD5-24HE-N-CL-WG-UNV-L850

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	16532.1	16532.1	16532.1	16532.1	16532.1
2.5°	16622.3	16398.3	16226.8	16131.0	16169.9
5°	16496.4	16047.3	15868.0	16043.0	16202.3
7.5°	16387.2	15719.8	15922.6	15938.2	16021.8
10°	16331.5	15688.6	15762.1	16108.6	16571.0
12.5°	16258.0	15761.1	15786.7	16259.1	16519.8
15°	16054.1	15614.0	16137.7	15485.9	14998.9
17.5°	15756.6	15270.8	15990.6	13718.8	13057.0
20°	15470.2	14897.6	14766.1	12220.2	11581.8
22.5°	15285.3	14840.8	13190.7	10888.8	10229.2
25°	14942.2	14988.9	11872.6	9312.2	7296.7
27.5°	14564.4	14640.2	10707.2	6210.4	4180.3
30°	14150.0	14236.9	9610.8	3670.0	2504.7
32.5°	13774.5	13284.3	7675.5	2289.6	1741.4
35°	13370.1	12162.3	4924.6	1647.9	1332.6
37.5°	12860.9	10983.5	3117.4	1303.6	1118.7
40°	12361.8	9925.0	2007.7	1113.0	976.0
42.5°	11894.9	9052.7	1460.7	972.7	881.4
45°	11234.2	8066.6	1145.4	867.9	706.4
47.5°	10662.6	6910.1	1001.6	734.3	609.5
50°	10053.1	5283.4	906.9	652.9	606.2
52.5°	9330.1	3456.1	837.8	625.1	566.0
55°	8618.1	2222.8	701.9	593.8	529.2
57.5°	7849.3	1409.4	619.5	576.0	552.6
60°	6970.3	950.4	548.2	545.9	495.8
62.5°	6156.9	781.0	529.2	523.7	469.1
65°	5295.7	655.1	523.7	492.5	457.9
67.5°	4435.5	561.6	473.6	450.1	420.0
70°	3594.3	513.7	455.7	445.7	382.1
72.5°	2729.7	423.3	404.5	377.7	317.6
75°	2033.3	413.3	393.3	342.0	313.1
77.5°	1376.0	381.1	357.7	306.4	283.0
80°	856.8	349.8	306.4	268.5	239.5
82.5°	509.2	291.9	251.8	221.7	202.7
85°	286.4	225.1	192.7	177.2	176.0
87.5°	61.3	81.3	64.6	61.3	43.4
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)