

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: P830026

Luminaire Tested: **OHBL-24HE-A-UNV-L850-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830026
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-200-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-24HE-A-UNV-L850-CD
Description: 24000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 5000K LEDS AND AISLE LENS
Light Source: -
Ballast/Driver: -

Summary

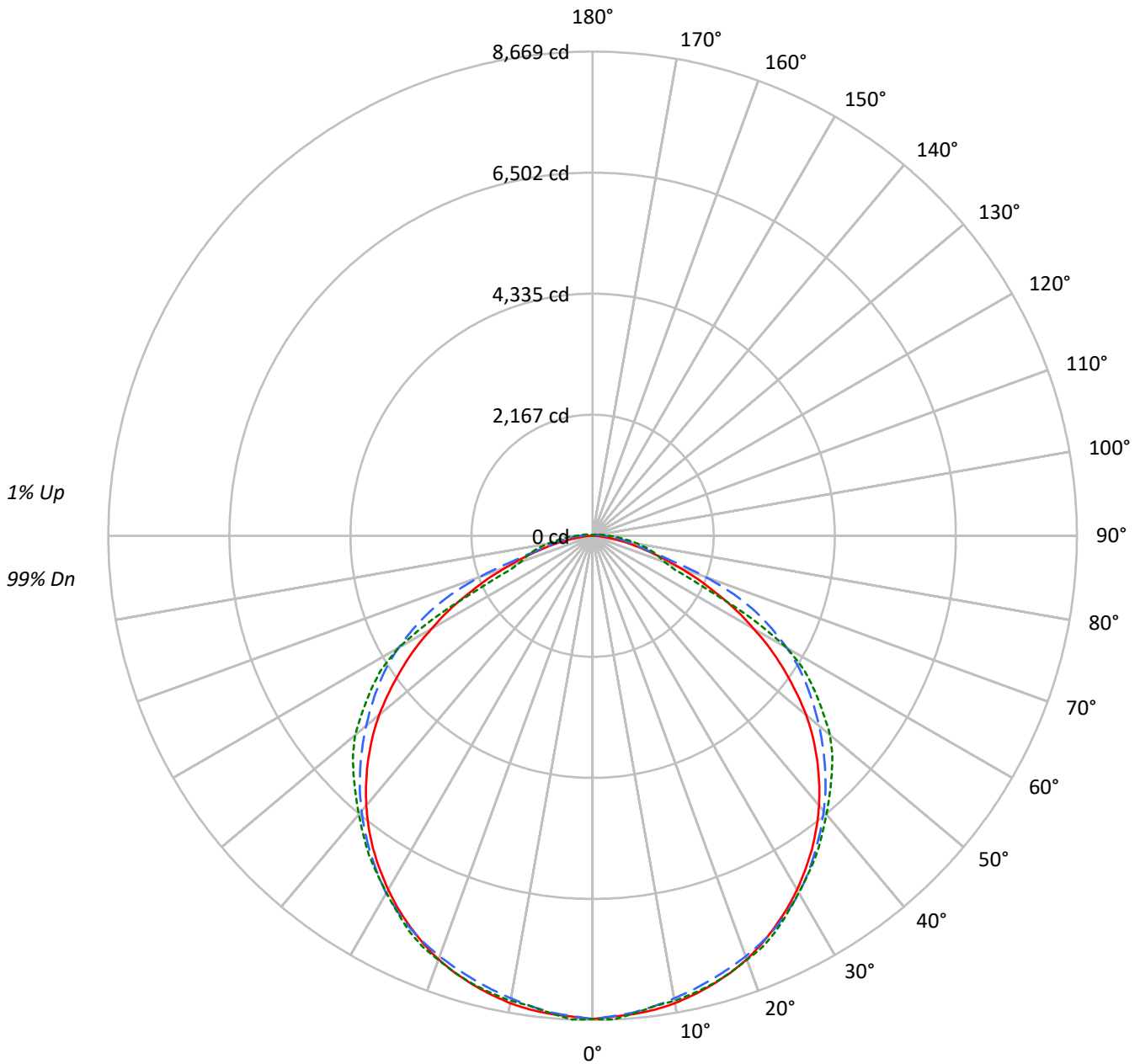
Lumens per Lamp: N/A
Luminaire Lumens: 24452.0 lumens
Efficiency: N/A
Efficacy: 183.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 133
Input Voltage (V): NR
Input Current (A_{in}): 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

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	110	110	110	106	106	106	101	101	101				99																
1	109	104	100	96	106	102	98	95	97	94	91	93	91	88	90	87	86				83																
2	99	91	84	79	96	89	83	78	85	80	76	82	78	74	79	75	72				70																
3	91	80	72	66	88	79	71	65	75	69	64	72	67	63	70	65	61				59																
4	83	71	62	56	81	70	62	55	67	60	54	65	59	54	62	57	53				51																
5	76	64	55	48	74	62	54	48	60	53	47	58	52	46	56	50	46				44																
6	70	57	48	42	68	56	48	42	54	47	41	52	46	41	51	45	40				38																
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36				34																
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	42	36	32				30																
9	57	43	35	30	55	43	35	29	41	34	29	40	34	29	39	33	29				27																
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	36	30	26				24																

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13681	13681	13681
5°	13592	13483	13511
10°	13542	13279	13361
15°	13456	13126	13272
20°	13370	13030	13154
25°	13209	12933	13038
30°	13034	12780	12791
35°	12824	12538	12655
40°	12551	12287	12470
45°	12173	11998	12388
50°	11661	11668	12290
55°	10847	11344	11831
60°	9781	10869	10938
65°	8391	9988	6932
70°	6759	7797	5026
75°	5067	4628	5101
80°	3527	3848	4870
85°	2008	3526	4565



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	815.7	3.3
10°-20°	2339.1	9.6
20°-30°	3572.6	14.6
30°-40°	4334.7	17.7
40°-50°	4543.2	18.6
50°-60°	4116.8	16.8
60°-70°	2760.2	11.3
70°-80°	1239.4	5.1
80°-90°	449.8	1.8
90°-100°	135.4	0.6
100°-110°	63.9	0.3
110°-120°	32.0	0.1
120°-130°	17.7	0.1
130°-140°	12.2	0.0
140°-150°	8.2	0.0
150°-160°	6.1	0.0
160°-170°	3.9	0.0
170°-180°	1.2	0.0
0°-30°	6727.4	27.5
0°-40°	11062.1	45.2
0°-60°	19722.1	80.7
0°-90°	24171.5	98.9
90°-120°	231.3	0.9
90°-150°	269.3	1.1
90°-180°	281.0	1.1
0°-180°	24452.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8651	8651	8651	8651	8651	
5°	8595	8625	8565	8591	8580	817
15°	8316	8283	8225	8297	8307	2348
25°	7726	7692	7746	7817	7794	3561
35°	6847	6864	6934	7008	6980	4280
45°	5683	5775	5883	6033	6052	4378
55°	4182	4383	4682	4870	4858	3733
65°	2454	2838	3222	2719	2220	2445
75°	966	1401	1031	1054	1123	1055
85°	166	319	409	494	518	203
90°	1	106	211	265	278	10
95°	1	66	145	176	181	2
105°	5	29	71	86	90	6
115°	10	15	36	46	49	9
125°	9	10	22	26	28	9
135°	11	12	14	20	21	9
145°	11	12	12	14	15	7
155°	12	14	14	14	12	6
165°	14	14	14	14	14	4
175°	14	14	12	11	11	1
180°	12	12	12	12	12	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8651.1	8651.1	8651.1	8651.1	8651.1
2.5°	8616.1	8652.4	8607.4	8656.1	8668.7
5°	8594.8	8624.9	8564.8	8591.1	8579.8
7.5°	8556.1	8566.1	8494.8	8516.0	8493.5
10°	8498.5	8493.5	8409.7	8451.0	8456.0
12.5°	8413.5	8398.5	8323.4	8386.0	8387.2
15°	8315.9	8283.4	8224.6	8297.1	8307.1
17.5°	8203.3	8160.8	8122.0	8215.8	8200.8
20°	8072.0	8021.9	8014.4	8117.0	8079.5
22.5°	7909.4	7870.6	7888.1	7985.7	7961.9
25°	7725.5	7691.7	7745.5	7816.8	7794.3
27.5°	7531.6	7511.6	7572.9	7627.9	7584.1
30°	7318.9	7307.7	7389.0	7434.0	7379.0
32.5°	7087.5	7091.3	7168.8	7230.1	7178.8
35°	6847.4	6863.6	6933.7	7007.5	6980.0
37.5°	6583.4	6619.7	6689.7	6773.6	6744.8
40°	6304.5	6357.0	6434.6	6535.9	6509.6
42.5°	6003.0	6069.3	6169.4	6282.0	6279.5
45°	5682.8	5775.3	5882.9	6033.0	6051.8
47.5°	5350.0	5453.9	5590.2	5790.4	5819.1
50°	4988.5	5118.6	5288.8	5528.9	5546.4
52.5°	4585.8	4763.4	4988.5	5218.7	5197.4
55°	4181.7	4383.1	4682.1	4869.7	4858.4
57.5°	3778.9	4005.3	4368.1	4501.9	4500.7
60°	3328.6	3615.1	4011.6	4112.9	4012.8
62.5°	2912.1	3219.8	3631.3	3557.5	3214.8
65°	2454.2	2838.3	3222.3	2719.4	2220.3
67.5°	2047.7	2448.0	2736.9	1862.6	1594.9
70°	1638.7	2080.2	2134.0	1382.2	1363.5
72.5°	1275.9	1746.2	1472.3	1183.3	1243.4
75°	965.7	1401.0	1030.7	1054.5	1123.3
77.5°	704.2	1075.8	801.8	924.4	980.7
80°	484.1	761.8	654.2	776.8	815.6
82.5°	304.0	502.9	524.1	625.4	665.5
85°	166.4	319.0	409.0	494.1	517.9
87.5°	68.8	192.6	312.7	381.5	401.5
90°	1.3	106.3	211.4	265.2	277.7
92.5°	1.3	81.3	172.6	213.9	222.7
95°	1.3	66.3	145.1	176.4	181.4
97.5°	2.5	52.5	121.3	146.4	151.4
100°	3.8	43.8	101.3	122.6	126.3
102.5°	5.0	35.0	85.1	102.6	106.3
105°	5.0	28.8	71.3	86.3	90.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	8.8	17.5	42.5	53.8	56.3
115°	10.0	15.0	36.3	46.3	48.8
117.5°	10.0	12.5	31.3	38.8	41.3
120°	10.0	11.3	27.5	33.8	35.0
122.5°	10.0	10.0	23.8	30.0	31.3
125°	8.8	10.0	22.5	26.3	27.5
127.5°	10.0	10.0	20.0	23.8	25.0
130°	10.0	11.3	17.5	22.5	22.5
132.5°	11.3	12.5	16.3	21.3	21.3
135°	11.3	12.5	13.8	20.0	21.3
137.5°	12.5	12.5	12.5	18.8	20.0
140°	12.5	12.5	11.3	16.3	17.5
142.5°	11.3	12.5	11.3	15.0	16.3
145°	11.3	12.5	12.5	13.8	15.0
147.5°	12.5	12.5	12.5	12.5	13.8
150°	12.5	12.5	12.5	12.5	12.5
152.5°	12.5	12.5	12.5	12.5	12.5
155°	12.5	13.8	13.8	13.8	12.5
157.5°	12.5	13.8	13.8	13.8	13.8
160°	12.5	13.8	13.8	13.8	13.8
162.5°	13.8	13.8	13.8	13.8	13.8
165°	13.8	13.8	13.8	13.8	13.8
167.5°	13.8	15.0	13.8	13.8	13.8
170°	13.8	13.8	13.8	12.5	12.5
172.5°	13.8	13.8	13.8	12.5	12.5
175°	13.8	13.8	12.5	11.3	11.3
177.5°	15.0	13.8	12.5	11.3	10.0
180°	12.5	12.5	12.5	12.5	12.5



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







107.5°	6.3	23.8	61.3	73.8	76.3
110°	7.5	20.0	51.3	62.5	65.0



(END OF REPORT)