

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: P830314

Luminaire Tested: **OHBL-36HE-A-UNV-L850-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830314
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-36HE-A-UNV-L850-CD
Description: 36000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 5000K LEDS AND AISLE LENS
Light Source: -
Ballast/Driver: -

Summary

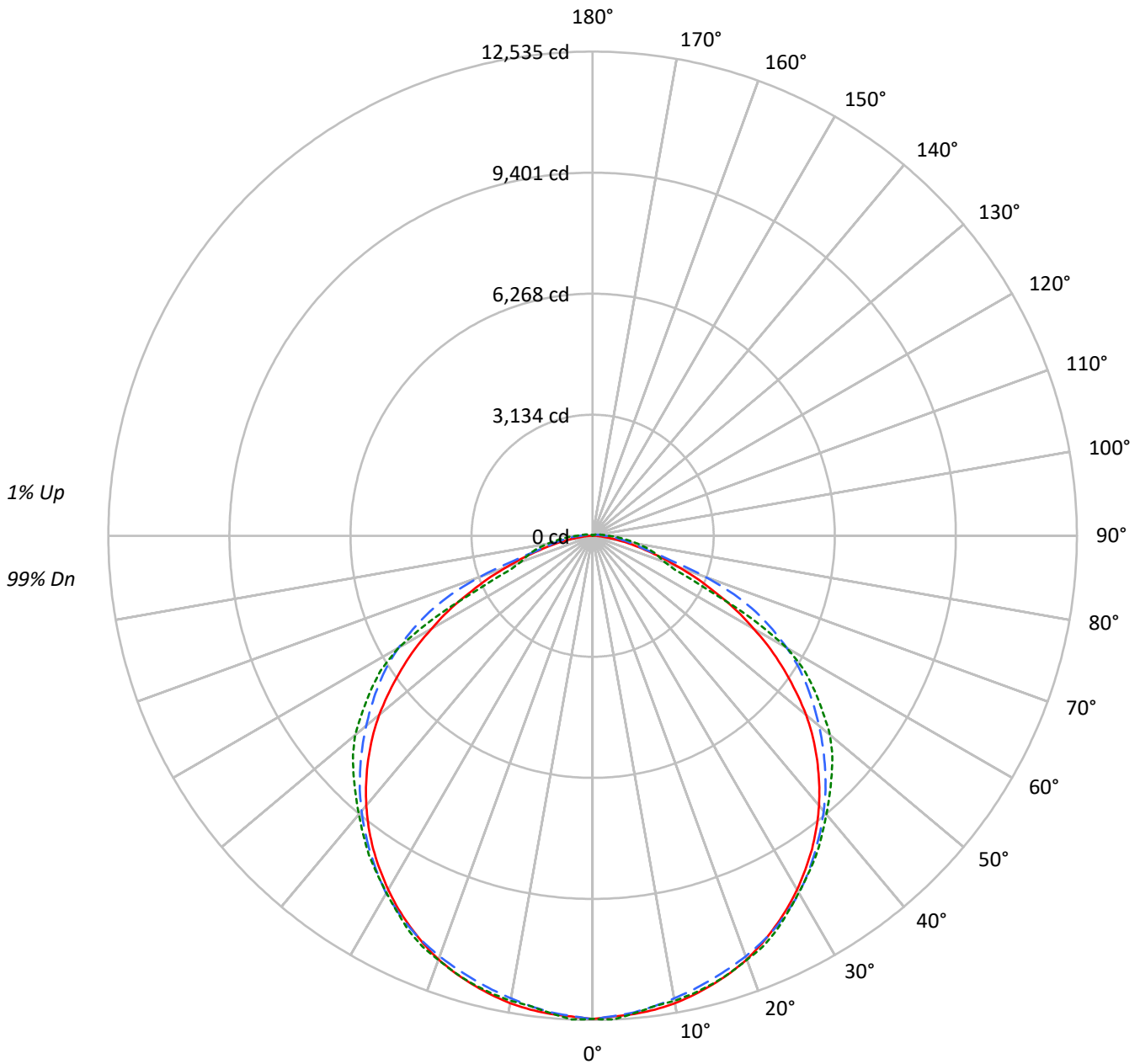
Lumens per Lamp: N/A
Luminaire Lumens: 35357.0 lumens
Efficiency: N/A
Efficacy: 166.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 212
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

TEST NUMBER: P830314

CATALOG NUMBER: OHBL-36HE-A-UNV-L850-CD

Luminous Intensity Polar Plot





TEST NUMBER: P830314

CATALOG NUMBER: OHBL-36HE-A-UNV-L850-CD

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°	19783	19783	19783
5°	19654	19496	19537
10°	19582	19200	19320
15°	19458	18980	19190
20°	19333	18841	19021
25°	19100	18700	18852
30°	18846	18480	18496
35°	18543	18129	18299
40°	18149	17767	18031
45°	17602	17348	17912
50°	16861	16872	17771
55°	15685	16403	17107
60°	14144	15716	15816
65°	12133	14442	10023
70°	9773	11274	7267
75°	7327	6693	7376
80°	5100	5565	7042
85°	2903	5099	6600



TEST NUMBER: P830314

CATALOG NUMBER: OHBL-36HE-A-UNV-L850-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1179.5	3.3
10°-20°	3382.3	9.6
20°-30°	5165.8	14.6
30°-40°	6267.9	17.7
40°-50°	6569.4	18.6
50°-60°	5952.8	16.8
60°-70°	3991.1	11.3
70°-80°	1792.2	5.1
80°-90°	650.4	1.8
90°-100°	195.8	0.6
100°-110°	92.4	0.3
110°-120°	46.3	0.1
120°-130°	25.6	0.1
130°-140°	17.6	0.0
140°-150°	11.8	0.0
150°-160°	8.8	0.0
160°-170°	5.6	0.0
170°-180°	1.8	0.0
0°-30°	9727.6	27.5
0°-40°	15995.5	45.2
0°-60°	28517.8	80.7
0°-90°	34951.5	98.9
90°-120°	334.4	0.9
90°-150°	389.3	1.1
90°-180°	406.0	1.1
0°-180°	35357.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12509	12509	12509	12509	12509	
5°	12428	12471	12384	12422	12406	###
15°	12025	11978	11893	11998	12012	3395
25°	11171	11122	11200	11303	11270	5149
35°	9901	9925	10026	10133	10093	6188
45°	8217	8351	8507	8724	8751	6330
55°	6047	6338	6770	7042	7025	5397
65°	3549	4104	4659	3932	3210	3536
75°	1396	2026	1490	1525	1624	1526
85°	241	461	592	714	749	294
90°	2	154	306	384	402	14
95°	2	96	210	255	262	2
105°	7	42	103	125	130	8
115°	14	22	52	67	70	13
125°	13	14	33	38	40	13
135°	16	18	20	29	31	13
145°	16	18	18	20	22	11
155°	18	20	20	20	18	8
165°	20	20	20	20	20	6
175°	20	20	18	16	16	2
180°	18	18	18	18	18	



TEST NUMBER: P830314

CATALOG NUMBER: OHBL-36HE-A-UNV-L850-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12509.3	12509.3	12509.3	12509.3	12509.3
2.5°	12458.7	12511.1	12446.0	12516.6	12534.7
5°	12427.9	12471.4	12384.5	12422.5	12406.2
7.5°	12371.9	12386.3	12283.2	12314.0	12281.4
10°	12288.7	12281.4	12160.2	12219.9	12227.2
12.5°	12165.7	12144.0	12035.4	12125.9	12127.7
15°	12024.6	11977.6	11892.6	11997.5	12011.9
17.5°	11861.8	11800.3	11744.2	11879.9	11858.2
20°	11671.9	11599.5	11588.7	11737.0	11682.7
22.5°	11436.7	11380.7	11406.0	11547.1	11512.7
25°	11170.9	11122.0	11199.8	11302.9	11270.3
27.5°	10890.5	10861.6	10950.2	11029.8	10966.5
30°	10583.0	10566.7	10684.3	10749.4	10669.8
32.5°	10248.4	10253.8	10366.0	10454.6	10380.4
35°	9901.1	9924.6	10025.9	10132.6	10092.8
37.5°	9519.5	9571.9	9673.2	9794.4	9752.8
40°	9116.1	9192.1	9304.2	9450.7	9412.8
42.5°	8680.2	8776.1	8920.8	9083.6	9079.9
45°	8217.2	8351.0	8506.6	8723.6	8750.7
47.5°	7736.0	7886.2	8083.3	8372.7	8414.3
50°	7213.3	7401.4	7647.4	7994.7	8020.0
52.5°	6630.9	6887.7	7213.3	7546.1	7515.4
55°	6046.7	6337.9	6770.2	7041.5	7025.2
57.5°	5464.2	5791.6	6316.2	6509.7	6507.9
60°	4813.1	5227.3	5800.7	5947.2	5802.5
62.5°	4210.8	4655.7	5250.8	5144.1	4648.5
65°	3548.8	4104.1	4659.3	3932.2	3210.5
67.5°	2960.9	3539.7	3957.6	2693.2	2306.2
70°	2369.5	3008.0	3085.7	1998.7	1971.5
72.5°	1844.9	2525.0	2128.9	1711.1	1797.9
75°	1396.4	2025.8	1490.4	1524.8	1624.3
77.5°	1018.3	1555.5	1159.4	1336.7	1418.1
80°	700.0	1101.5	946.0	1123.2	1179.3
82.5°	439.5	727.1	757.9	904.4	962.3
85°	240.6	461.2	591.5	714.5	748.8
87.5°	99.5	278.5	452.2	551.7	580.6
90°	1.8	153.7	305.7	383.5	401.5
92.5°	1.8	117.6	249.6	309.3	322.0
95°	1.8	95.9	209.8	255.0	262.3
97.5°	3.6	76.0	175.4	211.6	218.9
100°	5.4	63.3	146.5	177.3	182.7
102.5°	7.2	50.6	123.0	148.3	153.7
105°	7.2	41.6	103.1	124.8	130.2



TEST NUMBER: P830314

CATALOG NUMBER: OHBL-36HE-A-UNV-L850-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	12.7	25.3	61.5	77.8	81.4
115°	14.5	21.7	52.5	66.9	70.5
117.5°	14.5	18.1	45.2	56.1	59.7
120°	14.5	16.3	39.8	48.8	50.6
122.5°	14.5	14.5	34.4	43.4	45.2
125°	12.7	14.5	32.6	38.0	39.8
127.5°	14.5	14.5	28.9	34.4	36.2
130°	14.5	16.3	25.3	32.6	32.6
132.5°	16.3	18.1	23.5	30.7	30.7
135°	16.3	18.1	19.9	28.9	30.7
137.5°	18.1	18.1	18.1	27.1	28.9
140°	18.1	18.1	16.3	23.5	25.3
142.5°	16.3	18.1	16.3	21.7	23.5
145°	16.3	18.1	18.1	19.9	21.7
147.5°	18.1	18.1	18.1	18.1	19.9
150°	18.1	18.1	18.1	18.1	18.1
152.5°	18.1	18.1	18.1	18.1	18.1
155°	18.1	19.9	19.9	19.9	18.1
157.5°	18.1	19.9	19.9	19.9	19.9
160°	18.1	19.9	19.9	19.9	19.9
162.5°	19.9	19.9	19.9	19.9	19.9
165°	19.9	19.9	19.9	19.9	19.9
167.5°	19.9	21.7	19.9	19.9	19.9
170°	19.9	19.9	19.9	18.1	18.1
172.5°	19.9	19.9	19.9	18.1	18.1
175°	19.9	19.9	18.1	16.3	16.3
177.5°	21.7	19.9	18.1	16.3	14.5
180°	18.1	18.1	18.1	18.1	18.1



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	9.0	34.4	88.6	106.7	110.3
110°	10.9	28.9	74.2	90.4	94.1



(END OF REPORT)