

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: P829786

Luminaire Tested: **OHBL-12SE-NL-UNV-L850-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829786
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P472951)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-12SE-NL-UNV-L850-CD
Description: 12000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 5000K LEDS AND NO LENS
Light Source: -
Ballast/Driver: -

Summary

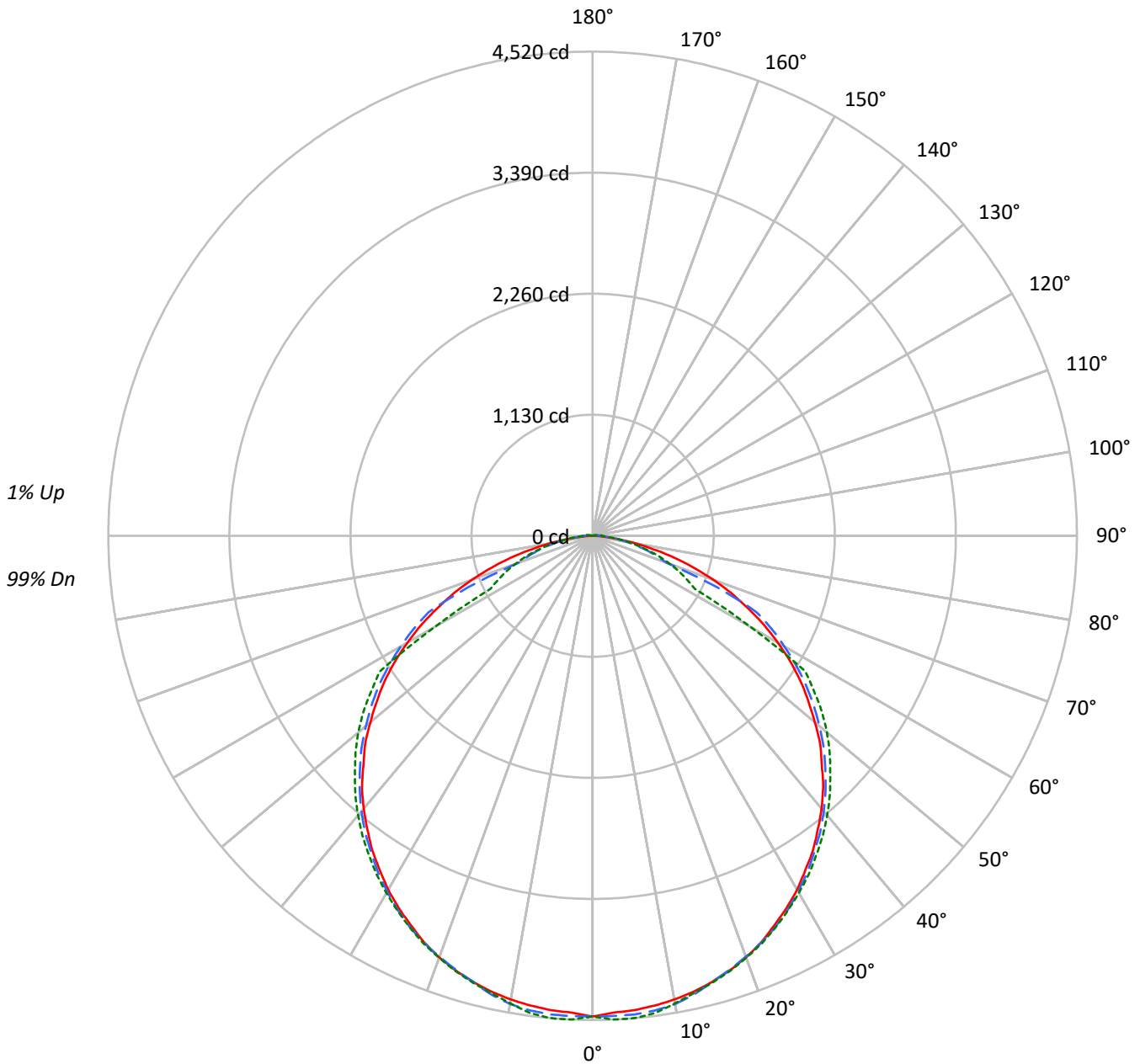
Lumens per Lamp: N/A
Luminaire Lumens: 12599.0 lumens
Efficiency: N/A
Efficacy: 180.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular (W 0.88' x L: 3.78' x H: 0')
CIE Type: Direct

Input Watts (W): 70
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: P829786

CATALOG NUMBER: OHBL-12SE-NL-UNV-L850-CD

Luminous Intensity Polar Plot





TEST NUMBER: P829786

CATALOG NUMBER: OHBL-12SE-NL-UNV-L850-CD

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				20	
RC	80				70				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	111	111	111	106	106	106	102	102	102	99				99
1	109	105	100	97	106	102	99	95	98	95	92	94	91	89	90	88	86	84				84
2	99	92	85	79	97	90	84	78	86	81	76	83	78	75	80	76	73	71				71
3	91	81	73	66	88	79	72	66	76	70	64	73	68	63	70	66	62	60				60
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51				51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44				44
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39				39
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34				34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30				30
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27				27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25				25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14599	14599	14599
5°	14519	14650	14760
10°	14523	14660	14642
15°	14520	14517	14549
20°	14500	14478	14514
25°	14401	14475	14486
30°	14334	14408	14464
35°	14242	14319	14454
40°	14118	14252	14463
45°	13915	14125	14433
50°	13705	13984	14446
55°	13443	13791	14287
60°	12992	13454	11123
65°	12293	13007	7486
70°	11370	6905	7265
75°	9918	6561	6939
80°	7627	6020	6359
85°	3848	6084	6230



TEST NUMBER: P829786

CATALOG NUMBER: OHBL-12SE-NL-UNV-L850-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	426.3	3.4
10°-20°	1220.7	9.7
20°-30°	1857.4	14.7
30°-40°	2258.3	17.9
40°-50°	2374.5	18.8
50°-60°	2168.2	17.2
60°-70°	1389.9	11.0
70°-80°	656.6	5.2
80°-90°	182.1	1.4
90°-100°	48.2	0.4
100°-110°	13.2	0.1
110°-120°	3.7	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°	3504.4	27.8
0°-40°	5762.7	45.7
0°-60°	10305.4	81.8
0°-90°	12533.9	99.5
90°-120°	65.1	0.5
90°-150°	65.1	0.5
90°-180°	65.0	0.5
0°-180°	12599.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4487	4487	4487	4487	4487	
5°	4446	4463	4486	4510	4520	423
15°	4311	4343	4310	4316	4320	1217
25°	4012	4018	4032	4039	4035	1851
35°	3586	3565	3606	3650	3639	2241
45°	3024	3019	3070	3142	3137	2338
55°	2370	2352	2432	2513	2519	2114
65°	1597	1597	1690	969	972	1583
75°	789	804	522	550	552	832
85°	103	131	163	176	167	152
90°	0	44	72	86	84	5
95°	2	23	52	70	70	1
105°	4	9	13	13	12	4
115°	4	6	8	6	1	3
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P829786

CATALOG NUMBER: OHBL-12SE-NL-UNV-L850-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4487.4	4487.4	4487.4	4487.4	4487.4
2.5°	4455.9	4470.9	4487.4	4508.7	4520.5
5°	4445.7	4463.0	4485.9	4510.3	4519.7
7.5°	4423.7	4448.0	4470.1	4487.4	4492.9
10°	4396.1	4425.2	4437.8	4436.3	4432.3
12.5°	4359.1	4389.8	4385.9	4367.7	4370.9
15°	4311.0	4343.3	4310.3	4316.5	4319.7
17.5°	4254.4	4285.9	4247.3	4259.9	4260.7
20°	4188.2	4211.8	4181.9	4192.2	4192.2
22.5°	4108.7	4125.2	4112.6	4119.7	4121.3
25°	4011.8	4018.1	4032.3	4038.6	4035.4
27.5°	3919.0	3911.1	3938.6	3953.6	3945.7
30°	3815.8	3803.2	3835.4	3859.9	3850.4
32.5°	3697.6	3689.8	3726.8	3755.9	3750.4
35°	3585.9	3564.6	3605.5	3649.6	3639.4
37.5°	3453.6	3441.0	3487.4	3533.9	3528.4
40°	3324.4	3303.2	3355.9	3411.0	3405.5
42.5°	3185.9	3160.6	3218.1	3284.3	3278.0
45°	3024.4	3018.9	3070.1	3142.5	3137.0
47.5°	2881.2	2853.6	2925.2	2995.3	3001.6
50°	2707.9	2697.7	2763.0	2848.1	2854.3
52.5°	2538.6	2531.5	2600.0	2685.8	2696.8
55°	2370.1	2352.0	2431.5	2512.6	2518.9
57.5°	2189.8	2170.9	2252.0	2340.2	2353.6
60°	1996.8	1978.7	2067.7	2149.6	1709.5
62.5°	1803.9	1791.3	1884.3	1334.7	1075.7
65°	1596.9	1596.9	1689.7	969.3	972.4
67.5°	1403.2	1390.6	1259.9	870.8	870.8
70°	1195.3	1200.0	725.9	763.0	763.8
72.5°	986.6	1004.0	626.8	656.7	658.2
75°	789.0	804.0	522.0	549.6	552.0
77.5°	579.6	445.7	419.7	441.0	441.7
80°	407.1	281.1	321.3	341.7	339.4
82.5°	237.8	196.8	235.4	250.4	249.6
85°	103.1	130.7	163.0	176.4	166.9
87.5°	33.0	81.1	101.5	109.5	108.6
90°	0.0	44.1	72.4	85.8	84.3
92.5°	0.0	34.6	63.0	78.8	79.5
95°	2.3	22.8	52.0	70.1	70.1
97.5°	1.6	16.5	37.0	55.1	56.7
100°	1.6	13.3	24.4	39.3	40.2
102.5°	3.9	11.0	14.9	25.2	26.0
105°	3.9	8.7	12.6	12.6	11.8



TEST NUMBER: P829786

CATALOG NUMBER: OHBL-12SE-NL-UNV-L850-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	4.8	6.3	8.7	6.3	0.8
115°	3.9	5.5	7.8	5.5	0.8
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	3.9	7.8	11.0	7.1	2.3
110°	4.8	7.1	9.4	6.3	0.8



(END OF REPORT)