

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: P829738

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829738
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-12SE-A-UNV-L850-CD
Description: 12000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 5000K LEDS AND AISLE LENS
Light Source: -
Ballast/Driver: -

Summary

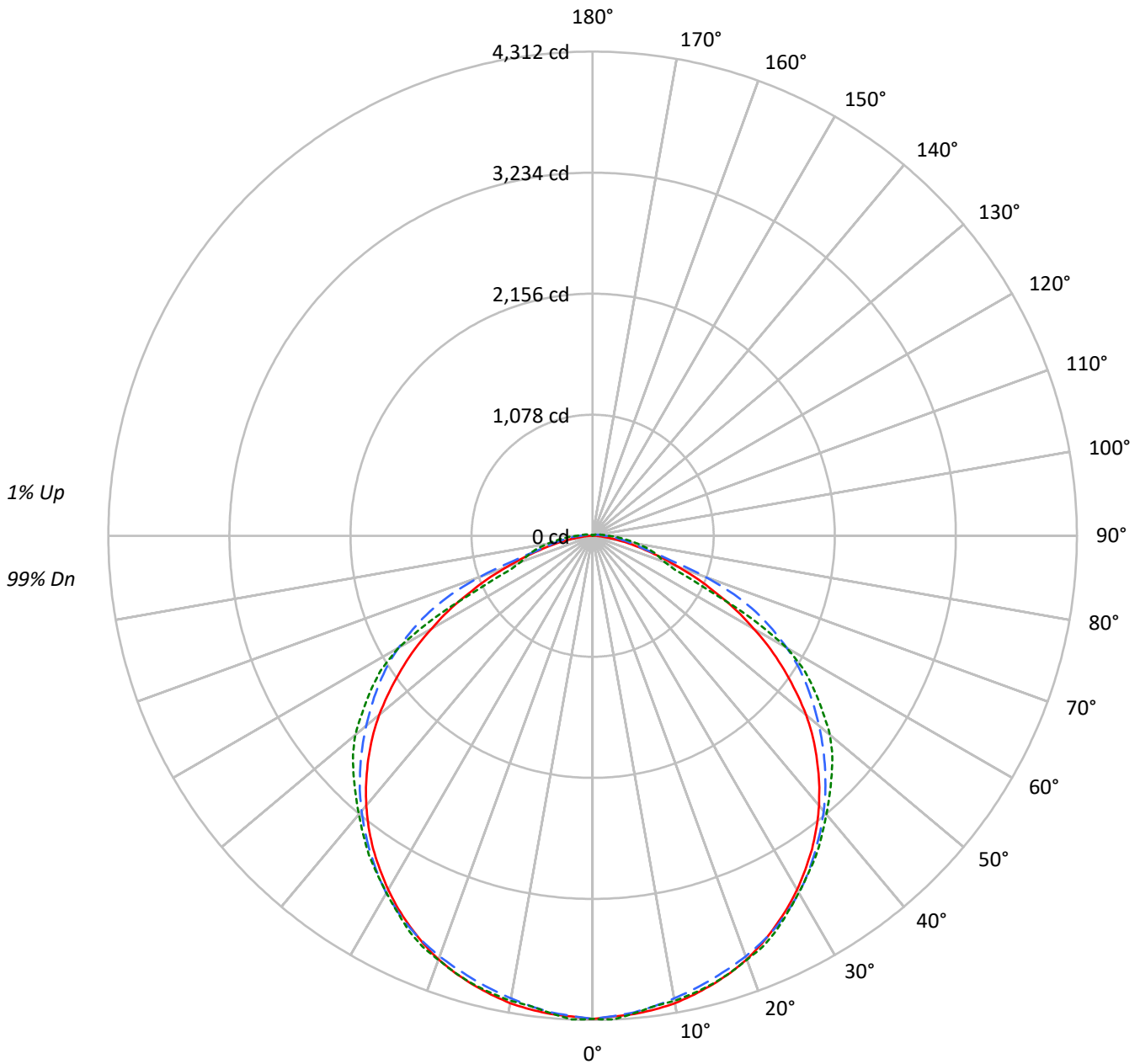
Lumens per Lamp: N/A
Luminaire Lumens: 12162.0 lumens
Efficiency: N/A
Efficacy: 173.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.88' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 70
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°	13999	13999	13999
5°	13907	13713	13708
10°	13856	13425	13443
15°	13768	13192	13240
20°	13681	13015	13011
25°	13515	12836	12781
30°	13336	12600	12421
35°	13121	12271	12165
40°	12842	11931	11855
45°	12455	11547	11633
50°	11931	11116	11379
55°	11098	10679	10775
60°	10008	10085	9765
65°	8585	9100	6036
70°	6915	6935	4235
75°	5184	3980	4104
80°	3609	3141	3653
85°	2053	2622	3026



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	405.7	3.3
10°-20°	1163.4	9.6
20°-30°	1776.9	14.6
30°-40°	2156.0	17.7
40°-50°	2259.7	18.6
50°-60°	2047.6	16.8
60°-70°	1372.9	11.3
70°-80°	616.5	5.1
80°-90°	223.7	1.8
90°-100°	67.3	0.6
100°-110°	31.8	0.3
110°-120°	15.9	0.1
120°-130°	8.8	0.1
130°-140°	6.0	0.0
140°-150°	4.1	0.0
150°-160°	3.0	0.0
160°-170°	1.9	0.0
170°-180°	0.6	0.0
0°-30°	3346.1	27.5
0°-40°	5502.1	45.2
0°-60°	9809.5	80.7
0°-90°	12022.5	98.9
90°-120°	115.0	0.9
90°-150°	133.9	1.1
90°-180°	139.0	1.1
0°-180°	12162.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4303	4303	4303	4303	4303	
5°	4275	4290	4260	4273	4268	407
15°	4136	4120	4091	4127	4132	1168
25°	3842	3826	3852	3888	3877	1771
35°	3406	3414	3449	3485	3472	2129
45°	2826	2873	2926	3001	3010	2177
55°	2080	2180	2329	2422	2416	1857
65°	1221	1412	1603	1353	1104	1216
75°	480	697	513	524	559	525
85°	83	159	203	246	258	101
90°	1	53	105	132	138	5
95°	1	33	72	88	90	1
105°	2	14	36	43	45	3
115°	5	8	18	23	24	5
125°	4	5	11	13	14	4
135°	6	6	7	10	11	4
145°	6	6	6	7	8	4
155°	6	7	7	7	6	3
165°	7	7	7	7	7	2
175°	7	7	6	6	6	1
180°	6	6	6	6	6	



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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4302.9	4302.9	4302.9	4302.9	4302.9
2.5°	4285.5	4303.5	4281.1	4305.4	4311.6
5°	4274.9	4289.9	4260.0	4273.1	4267.5
7.5°	4255.6	4260.6	4225.2	4235.7	4224.5
10°	4227.0	4224.5	4182.8	4203.4	4205.9
12.5°	4184.7	4177.2	4139.9	4171.0	4171.6
15°	4136.2	4120.0	4090.8	4126.9	4131.8
17.5°	4080.2	4059.0	4039.7	4086.4	4078.9
20°	4014.9	3990.0	3986.2	4037.3	4018.6
22.5°	3934.0	3914.7	3923.4	3971.9	3960.1
25°	3842.5	3825.7	3852.5	3887.9	3876.7
27.5°	3746.1	3736.1	3766.6	3794.0	3772.2
30°	3640.3	3634.7	3675.2	3697.6	3670.2
32.5°	3525.2	3527.1	3565.7	3596.1	3570.6
35°	3405.8	3413.8	3448.7	3485.4	3471.7
37.5°	3274.5	3292.5	3327.4	3369.0	3354.7
40°	3135.7	3161.9	3200.4	3250.8	3237.8
42.5°	2985.8	3018.8	3068.5	3124.5	3123.3
45°	2826.5	2872.6	2926.1	3000.7	3010.1
47.5°	2661.0	2712.7	2780.5	2880.0	2894.3
50°	2481.2	2545.9	2630.5	2750.0	2758.7
52.5°	2280.9	2369.2	2481.2	2595.7	2585.1
55°	2079.9	2180.1	2328.8	2422.1	2416.5
57.5°	1879.6	1992.2	2172.6	2239.2	2238.6
60°	1655.6	1798.1	1995.3	2045.7	1995.9
62.5°	1448.4	1601.5	1806.2	1769.5	1599.0
65°	1220.7	1411.7	1602.7	1352.6	1104.4
67.5°	1018.5	1217.6	1361.3	926.4	793.3
70°	815.0	1034.7	1061.4	687.5	678.2
72.5°	634.6	868.5	732.3	588.6	618.4
75°	480.3	696.8	512.7	524.5	558.7
77.5°	350.3	535.1	398.8	459.8	487.8
80°	240.8	378.9	325.4	386.4	405.7
82.5°	151.2	250.1	260.7	311.1	331.0
85°	82.7	158.7	203.4	245.8	257.6
87.5°	34.2	95.8	155.5	189.8	199.7
90°	0.6	52.9	105.1	131.9	138.1
92.5°	0.6	40.4	85.9	106.4	110.7
95°	0.6	33.0	72.2	87.7	90.2
97.5°	1.2	26.1	60.4	72.8	75.3
100°	1.9	21.8	50.4	61.0	62.8
102.5°	2.5	17.4	42.3	51.0	52.9
105°	2.5	14.3	35.5	42.9	44.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	4.4	8.7	21.2	26.8	28.0
115°	5.0	7.5	18.0	23.0	24.3
117.5°	5.0	6.2	15.6	19.3	20.5
120°	5.0	5.6	13.7	16.8	17.4
122.5°	5.0	5.0	11.8	14.9	15.6
125°	4.4	5.0	11.2	13.1	13.7
127.5°	5.0	5.0	10.0	11.8	12.4
130°	5.0	5.6	8.7	11.2	11.2
132.5°	5.6	6.2	8.1	10.6	10.6
135°	5.6	6.2	6.8	10.0	10.6
137.5°	6.2	6.2	6.2	9.3	10.0
140°	6.2	6.2	5.6	8.1	8.7
142.5°	5.6	6.2	5.6	7.5	8.1
145°	5.6	6.2	6.2	6.8	7.5
147.5°	6.2	6.2	6.2	6.2	6.8
150°	6.2	6.2	6.2	6.2	6.2
152.5°	6.2	6.2	6.2	6.2	6.2
155°	6.2	6.8	6.8	6.8	6.2
157.5°	6.2	6.8	6.8	6.8	6.8
160°	6.2	6.8	6.8	6.8	6.8
162.5°	6.8	6.8	6.8	6.8	6.8
165°	6.8	6.8	6.8	6.8	6.8
167.5°	6.8	7.5	6.8	6.8	6.8
170°	6.8	6.8	6.8	6.2	6.2
172.5°	6.8	6.8	6.8	6.2	6.2
175°	6.8	6.8	6.2	5.6	5.6
177.5°	7.5	6.8	6.2	5.6	5.0
180°	6.2	6.2	6.2	6.2	6.2



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	3.1	11.8	30.5	36.7	38.0
110°	3.7	10.0	25.5	31.1	32.4



(END OF REPORT)