

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: P830434

Luminaire Tested: **OHBL-36SE-NL-UNV-L850-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830434
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-36SE-NL-UNV-L850-CD
Description: 36000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 5000K LEDS AND NO LENS
Light Source: -
Ballast/Driver: -

Summary

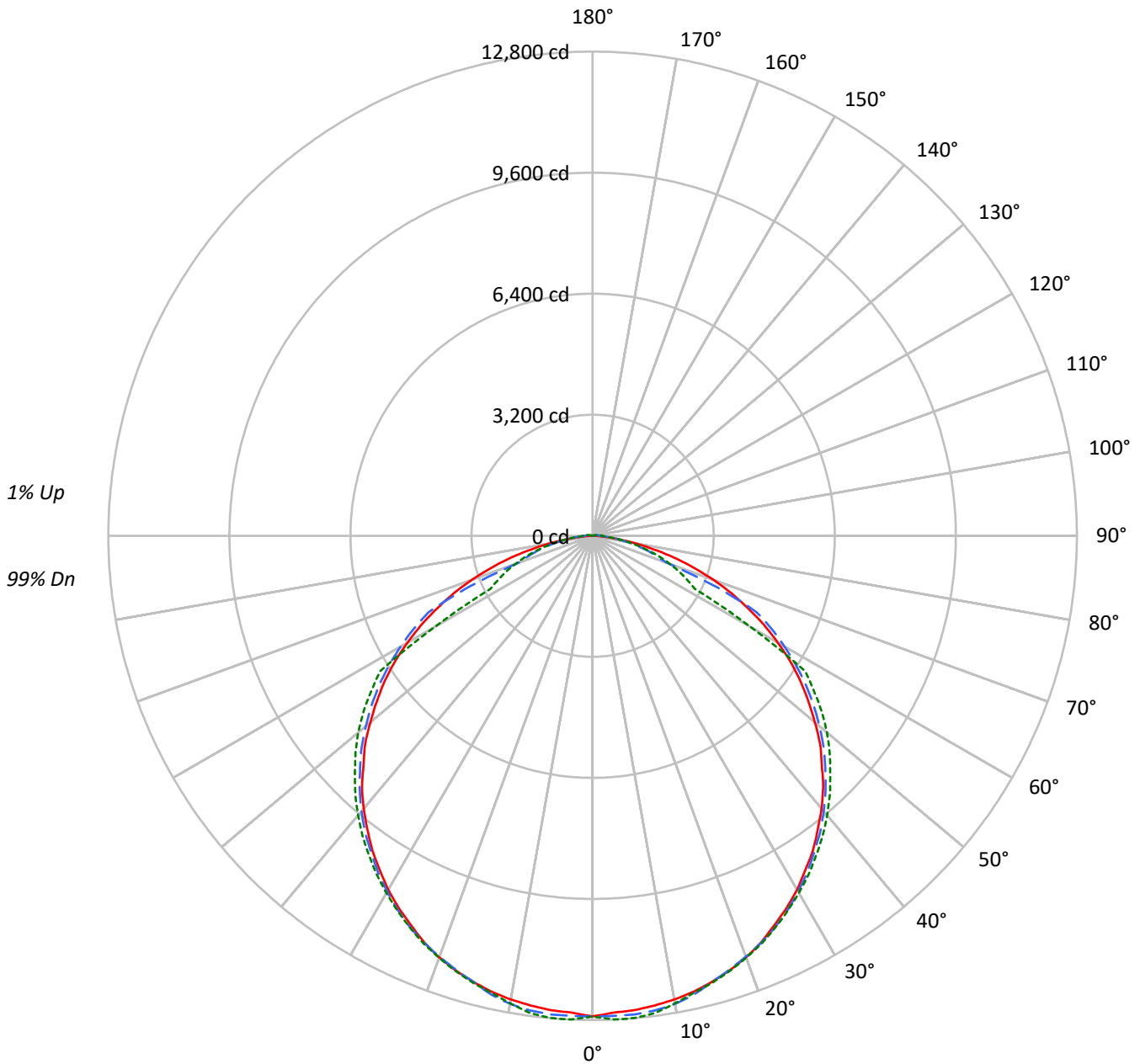
Lumens per Lamp: N/A
Luminaire Lumens: 35675.0 lumens
Efficiency: N/A
Efficacy: 169.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular (W 1.8' x L: 3.78' x H: 0')
CIE Type: Direct

Input Watts (W): 211
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

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20095	20095	20095
5°	19984	20165	20317
10°	19990	20180	20154
15°	19986	19983	20026
20°	19959	19929	19978
25°	19822	19923	19939
30°	19731	19832	19910
35°	19603	19710	19895
40°	19433	19618	19908
45°	19153	19442	19867
50°	18865	19249	19885
55°	18504	18983	19666
60°	17884	18518	15310
65°	16920	17904	10304
70°	15650	9505	10000
75°	13651	9032	9550
80°	10497	8285	8752
85°	5298	8374	8576



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1207.2	3.4
10°-20°	3456.4	9.7
20°-30°	5259.3	14.7
30°-40°	6394.5	17.9
40°-50°	6723.6	18.8
50°-60°	6139.4	17.2
60°-70°	3935.7	11.0
70°-80°	1859.1	5.2
80°-90°	515.5	1.4
90°-100°	136.5	0.4
100°-110°	37.4	0.1
110°-120°	10.4	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°	9922.9	27.8
0°-40°	16317.4	45.7
0°-60°	29180.4	81.8
0°-90°	35490.7	99.5
90°-120°	184.3	0.5
90°-150°	184.3	0.5
90°-180°	184.0	0.5
0°-180°	35675.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12706	12706	12706	12706	12706	
5°	12588	12637	12702	12771	12798	###
15°	12207	12298	12205	12223	12232	3446
25°	11360	11378	11418	11436	11427	5242
35°	10154	10093	10209	10334	10305	6345
45°	8564	8548	8693	8898	8883	6619
55°	6711	6660	6885	7115	7133	5985
65°	4522	4522	4785	2745	2754	4483
75°	2234	2276	1478	1556	1563	2355
85°	292	370	462	500	473	432
90°	0	125	205	243	239	13
95°	7	65	147	198	198	4
105°	11	24	36	36	34	11
115°	11	16	22	16	2	8
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



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12706.5	12706.5	12706.5	12706.5	12706.5
2.5°	12617.3	12659.8	12706.5	12766.7	12800.0
5°	12588.3	12637.4	12702.0	12771.2	12797.9
7.5°	12525.9	12594.9	12657.4	12706.5	12722.1
10°	12447.8	12530.4	12566.1	12561.6	12550.5
12.5°	12343.0	12430.1	12419.0	12367.5	12376.5
15°	12207.0	12298.4	12204.9	12222.6	12231.6
17.5°	12046.5	12135.7	12026.4	12062.1	12064.5
20°	11859.3	11926.1	11841.4	11870.4	11870.4
22.5°	11634.1	11680.9	11645.2	11665.3	11669.8
25°	11359.8	11377.5	11417.7	11435.6	11426.6
27.5°	11096.9	11074.4	11152.6	11194.8	11172.4
30°	10804.6	10769.0	10860.3	10929.5	10902.8
32.5°	10470.1	10448.0	10552.8	10635.1	10619.6
35°	10153.6	10093.4	10209.3	10334.2	10305.1
37.5°	9779.0	9743.3	9874.8	10006.5	9991.0
40°	9413.3	9353.1	9502.6	9658.6	9643.0
42.5°	9021.0	8949.5	9112.4	9299.8	9281.9
45°	8563.8	8548.2	8693.1	8898.3	8882.7
47.5°	8158.2	8080.1	8282.9	8481.4	8499.3
50°	7667.5	7638.7	7823.8	8064.5	8082.2
52.5°	7188.3	7168.2	7362.0	7605.2	7636.3
55°	6711.0	6659.8	6885.0	7114.6	7132.6
57.5°	6200.6	6147.1	6376.7	6626.5	6664.3
60°	5654.2	5603.0	5854.8	6086.9	4840.5
62.5°	5108.0	5072.3	5335.5	3779.2	3045.8
65°	4521.6	4521.6	4784.6	2744.6	2753.6
67.5°	3973.3	3937.6	3567.5	2465.8	2465.8
70°	3384.5	3398.0	2055.6	2160.6	2162.7
72.5°	2793.7	2842.8	1774.9	1859.4	1863.9
75°	2234.0	2276.5	1478.2	1556.3	1562.9
77.5°	1641.0	1261.9	1188.3	1248.7	1250.8
80°	1152.6	796.0	909.7	967.6	961.0
82.5°	673.2	557.3	666.6	709.1	706.7
85°	292.0	370.1	461.5	499.5	472.6
87.5°	93.5	229.7	287.5	309.9	307.6
90°	0.0	124.9	205.1	242.9	238.6
92.5°	0.0	98.0	178.5	223.1	225.2
95°	6.6	64.7	147.3	198.5	198.5
97.5°	4.5	46.7	104.8	156.0	160.5
100°	4.5	37.8	69.2	111.4	113.8
102.5°	11.1	31.2	42.3	71.3	73.6
105°	11.1	24.5	35.6	35.6	33.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	13.5	17.9	24.5	17.9	2.1
115°	11.1	15.6	22.2	15.6	2.1
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°	11.1	22.2	31.2	20.1	6.6
110°	13.5	20.1	26.7	17.9	2.1



(END OF REPORT)