

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: P829747

Luminaire Tested: **OHBL-12SE-MCL-UNV-L830-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829747
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-MCL-UNV-L830-CD
Description: 12000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 3000K LEDS AND MEDIUM CLEAR LENS
Light Source: -
Ballast/Driver: -

Summary

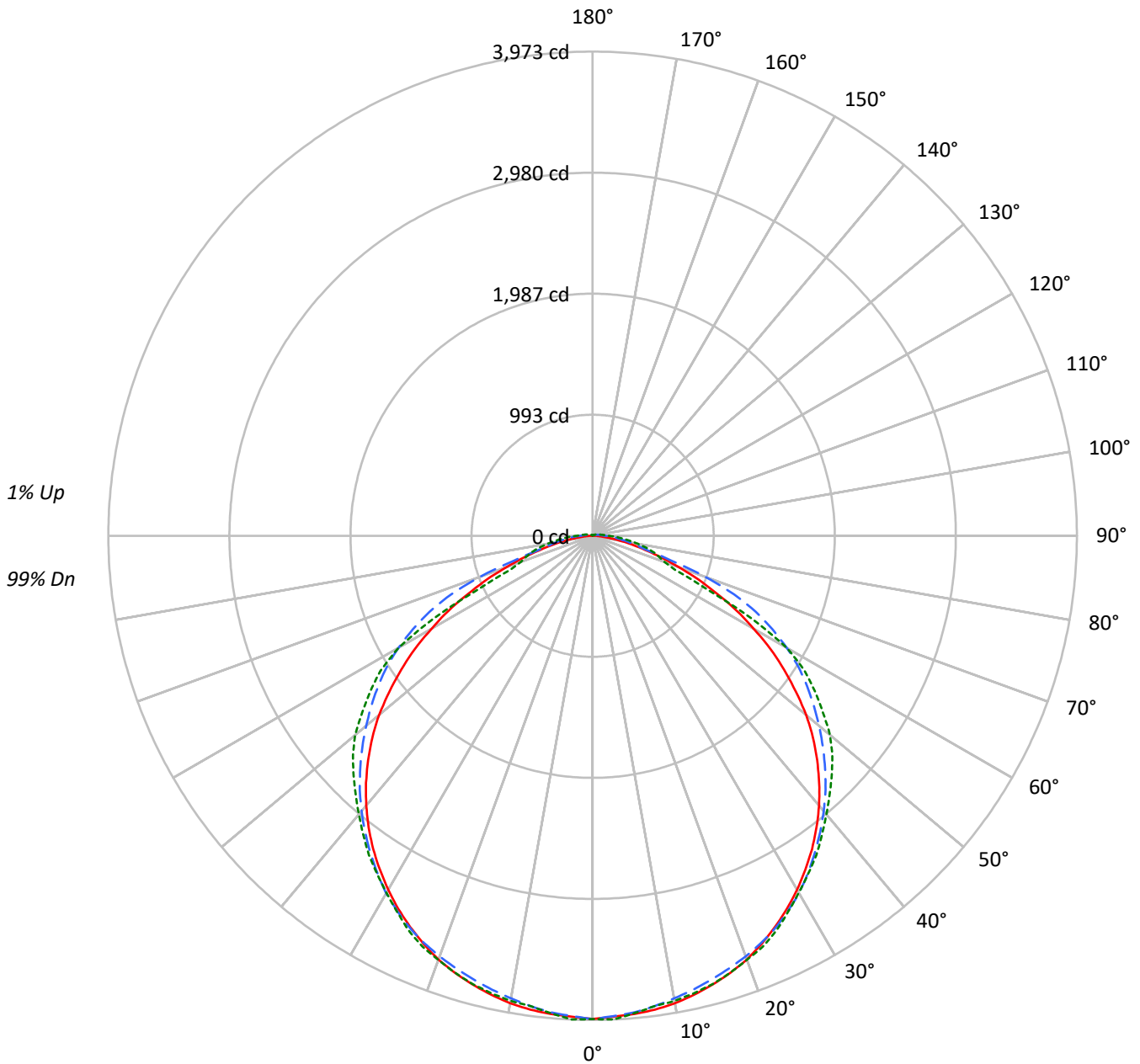
Lumens per Lamp: N/A
Luminaire Lumens: 11207.0 lumens
Efficiency: N/A
Efficacy: 160.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.88' x L: 3.78' x H: 0.17')
CIE Type: Direct

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°	12899	12899	12899
5°	12815	12636	12632
10°	12768	12371	12387
15°	12687	12156	12201
20°	12606	11993	11989
25°	12454	11828	11777
30°	12289	11610	11446
35°	12091	11308	11210
40°	11834	10994	10924
45°	11477	10640	10719
50°	10994	10243	10486
55°	10227	9840	9929
60°	9222	9293	8998
65°	7911	8386	5561
70°	6372	6391	3902
75°	4777	3667	3782
80°	3326	2894	3366
85°	1894	2417	2789



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	373.9	3.3
10°-20°	1072.1	9.6
20°-30°	1637.4	14.6
30°-40°	1986.7	17.7
40°-50°	2082.3	18.6
50°-60°	1886.9	16.8
60°-70°	1265.1	11.3
70°-80°	568.1	5.1
80°-90°	206.1	1.8
90°-100°	62.0	0.6
100°-110°	29.3	0.3
110°-120°	14.7	0.1
120°-130°	8.1	0.1
130°-140°	5.6	0.0
140°-150°	3.7	0.0
150°-160°	2.8	0.0
160°-170°	1.8	0.0
170°-180°	0.6	0.0
0°-30°	3083.3	27.5
0°-40°	5070.1	45.2
0°-60°	9039.2	80.7
0°-90°	11078.5	98.9
90°-120°	106.0	0.9
90°-150°	123.4	1.1
90°-180°	129.0	1.2
0°-180°	11207.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3965	3965	3965	3965	3965	
5°	3939	3953	3926	3938	3932	375
15°	3811	3796	3770	3803	3807	1076
25°	3541	3525	3550	3583	3572	1632
35°	3138	3146	3178	3212	3199	1962
45°	2605	2647	2696	2765	2774	2006
55°	1917	2009	2146	2232	2227	1711
65°	1125	1301	1477	1246	1018	1121
75°	443	642	472	483	515	484
85°	76	146	188	226	237	93
90°	1	49	97	122	127	5
95°	1	30	66	81	83	1
105°	2	13	33	40	41	3
115°	5	7	17	21	22	4
125°	4	5	10	12	13	4
135°	5	6	6	9	10	4
145°	5	6	6	6	7	3
155°	6	6	6	6	6	3
165°	6	6	6	6	6	2
175°	6	6	6	5	5	1
180°	6	6	6	6	6	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3965.0	3965.0	3965.0	3965.0	<i>3965.0</i>
2.5°	<i>3949.0</i>	<i>3965.6</i>	<i>3945.0</i>	<i>3967.3</i>	<i>3973.1</i>
5°	3939.2	3953.0	3925.5	3937.5	<i>3932.4</i>
7.5°	3921.5	3926.1	3893.4	3903.1	<i>3892.8</i>
10°	3895.1	3892.8	3854.4	3873.3	<i>3875.6</i>
12.5°	3856.1	3849.2	3814.8	3843.5	<i>3844.1</i>
15°	3811.4	3796.5	3769.5	3802.8	<i>3807.4</i>
17.5°	3759.8	3740.3	3722.5	3765.5	<i>3758.7</i>
20°	3699.6	3676.7	3673.2	3720.2	<i>3703.0</i>
22.5°	3625.1	3607.3	3615.3	3660.0	<i>3649.1</i>
25°	3540.8	3525.3	3550.0	3582.6	<i>3572.3</i>
27.5°	3451.9	3442.8	3470.8	3496.1	<i>3476.0</i>
30°	3354.5	3349.3	3386.6	3407.2	<i>3382.0</i>
32.5°	3248.4	3250.1	3285.7	3313.8	<i>3290.3</i>
35°	3138.3	3145.8	3177.9	3211.7	<i>3199.1</i>
37.5°	3017.4	3034.0	3066.1	3104.5	<i>3091.3</i>
40°	2889.5	2913.6	2949.1	2995.6	<i>2983.5</i>
42.5°	2751.3	2781.7	2827.6	2879.2	<i>2878.0</i>
45°	2604.6	2647.0	2696.3	2765.1	<i>2773.7</i>
47.5°	2452.1	2499.7	2562.1	2653.9	<i>2667.1</i>
50°	2286.4	2346.0	2424.0	2534.1	<i>2542.1</i>
52.5°	2101.8	2183.2	2286.4	2391.9	<i>2382.1</i>
55°	1916.6	2008.9	2145.9	2231.9	<i>2226.8</i>
57.5°	1732.0	1835.8	2002.0	2063.4	<i>2062.8</i>
60°	1525.6	1656.9	1838.6	1885.1	<i>1839.2</i>
62.5°	1334.7	1475.7	1664.3	1630.5	<i>1473.4</i>
65°	1124.8	1300.9	1476.9	1246.4	<i>1017.6</i>
67.5°	938.5	1122.0	1254.4	853.7	<i>731.0</i>
70°	751.0	953.4	978.1	633.5	<i>624.9</i>
72.5°	584.8	800.3	674.8	542.4	<i>569.9</i>
75°	442.6	642.1	472.4	483.3	<i>514.8</i>
77.5°	322.8	493.1	367.5	423.7	<i>449.5</i>
80°	221.9	349.1	299.8	356.0	<i>373.8</i>
82.5°	139.3	230.5	240.2	286.7	<i>305.0</i>
85°	76.3	146.2	187.5	226.5	<i>237.4</i>
87.5°	31.5	88.3	143.3	174.9	<i>184.0</i>
90°	0.6	48.7	96.9	121.5	<i>127.3</i>
92.5°	0.6	37.3	79.1	98.0	<i>102.1</i>
95°	0.6	30.4	66.5	80.8	<i>83.1</i>
97.5°	1.1	24.1	55.6	67.1	<i>69.4</i>
100°	1.7	20.1	46.4	56.2	<i>57.9</i>
102.5°	2.3	16.1	39.0	47.0	<i>48.7</i>
105°	2.3	13.2	32.7	39.6	<i>41.3</i>



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	4.0	8.0	19.5	24.7	25.8
115°	4.6	6.9	16.6	21.2	22.4
117.5°	4.6	5.7	14.3	17.8	18.9
120°	4.6	5.2	12.6	15.5	16.1
122.5°	4.6	4.6	10.9	13.8	14.3
125°	4.0	4.6	10.3	12.0	12.6
127.5°	4.6	4.6	9.2	10.9	11.5
130°	4.6	5.2	8.0	10.3	10.3
132.5°	5.2	5.7	7.5	9.7	9.7
135°	5.2	5.7	6.3	9.2	9.7
137.5°	5.7	5.7	5.7	8.6	9.2
140°	5.7	5.7	5.2	7.5	8.0
142.5°	5.2	5.7	5.2	6.9	7.5
145°	5.2	5.7	5.7	6.3	6.9
147.5°	5.7	5.7	5.7	5.7	6.3
150°	5.7	5.7	5.7	5.7	5.7
152.5°	5.7	5.7	5.7	5.7	5.7
155°	5.7	6.3	6.3	6.3	5.7
157.5°	5.7	6.3	6.3	6.3	6.3
160°	5.7	6.3	6.3	6.3	6.3
162.5°	6.3	6.3	6.3	6.3	6.3
165°	6.3	6.3	6.3	6.3	6.3
167.5°	6.3	6.9	6.3	6.3	6.3
170°	6.3	6.3	6.3	5.7	5.7
172.5°	6.3	6.3	6.3	5.7	5.7
175°	6.3	6.3	5.7	5.2	5.2
177.5°	6.9	6.3	5.7	5.2	4.6
180°	5.7	5.7	5.7	5.7	5.7



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	2.9	10.9	28.1	33.8	35.0
110°	3.4	9.2	23.5	28.7	29.8



(END OF REPORT)