

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: P829783

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829783
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-L830-CD
Description: 12000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 3000K LEDS AND NO LENS
Light Source: -
Ballast/Driver: -

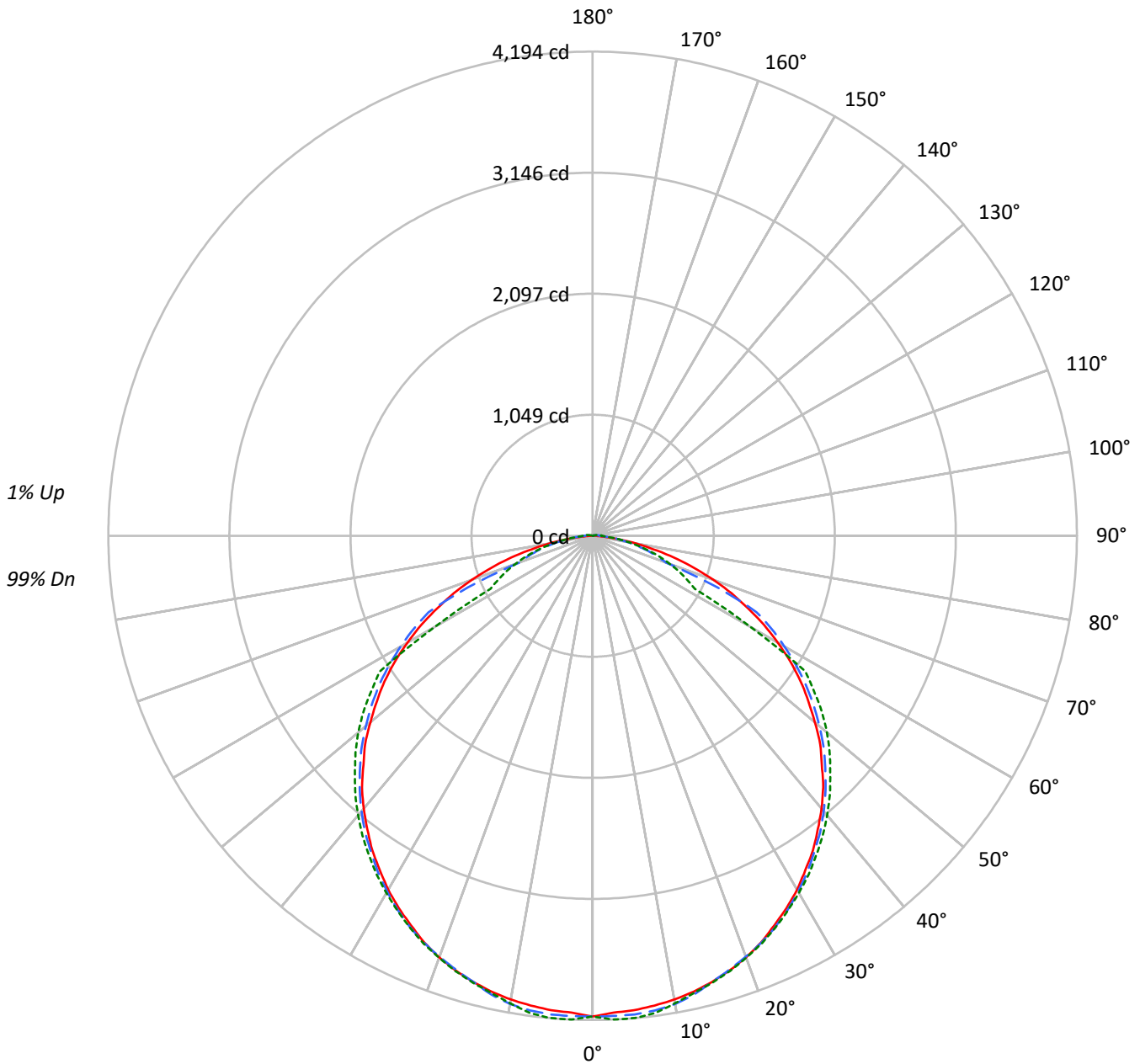
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11690.0 lumens
Efficiency: N/A
Efficacy: 167.0 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

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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°	13546	13546	13546
5°	13471	13593	13695
10°	13475	13603	13586
15°	13472	13470	13499
20°	13454	13434	13467
25°	13362	13430	13441
30°	13300	13369	13421
35°	13214	13286	13411
40°	13100	13224	13419
45°	12911	13106	13392
50°	12716	12976	13404
55°	12473	12797	13257
60°	12056	12483	10320
65°	11405	12069	6946
70°	10549	6407	6741
75°	9201	6089	6437
80°	7076	5585	5900
85°	3572	5644	5782



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	395.6	3.4
10°-20°	1132.6	9.7
20°-30°	1723.4	14.7
30°-40°	2095.4	17.9
40°-50°	2203.2	18.8
50°-60°	2011.8	17.2
60°-70°	1289.6	11.0
70°-80°	609.2	5.2
80°-90°	168.9	1.4
90°-100°	44.7	0.4
100°-110°	12.3	0.1
110°-120°	3.4	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°	3251.5	27.8
0°-40°	5346.9	45.7
0°-60°	9561.8	81.8
0°-90°	11629.6	99.5
90°-120°	60.4	0.5
90°-150°	60.4	0.5
90°-180°	60.0	0.5
0°-180°	11690.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4164	4164	4164	4164	4164	
5°	4125	4141	4162	4185	4194	392
15°	4000	4030	3999	4005	4008	1129
25°	3722	3728	3741	3747	3744	1718
35°	3327	3307	3345	3386	3377	2079
45°	2806	2801	2849	2916	2911	2169
55°	2199	2182	2256	2331	2337	1961
65°	1482	1482	1568	899	902	1469
75°	732	746	484	510	512	772
85°	96	121	151	164	155	141
90°	0	41	67	80	78	4
95°	2	21	48	65	65	1
105°	4	8	12	12	11	4
115°	4	5	7	5	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



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CATALOG NUMBER: OHBL-12SE-NL-UNV-L830-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4163.7	4163.7	4163.7	4163.7	4163.7
2.5°	4134.4	4148.4	4163.7	4183.4	4194.3
5°	4124.9	4141.0	4162.2	4184.9	4193.6
7.5°	4104.5	4127.1	4147.6	4163.7	4168.8
10°	4078.9	4106.0	4117.7	4116.2	4112.5
12.5°	4044.6	4073.1	4069.5	4052.6	4055.5
15°	4000.0	4029.9	3999.3	4005.1	4008.0
17.5°	3947.4	3976.6	3940.8	3952.5	3953.3
20°	3886.1	3908.0	3880.2	3889.7	3889.7
22.5°	3812.3	3827.6	3815.9	3822.5	3824.0
25°	3722.4	3728.2	3741.3	3747.2	3744.3
27.5°	3636.2	3628.9	3654.5	3668.3	3661.0
30°	3540.5	3528.8	3558.7	3581.4	3572.6
32.5°	3430.9	3423.6	3457.9	3484.9	3479.8
35°	3327.1	3307.4	3345.4	3386.3	3376.8
37.5°	3204.4	3192.7	3235.8	3278.9	3273.8
40°	3084.6	3064.8	3113.8	3164.9	3159.8
42.5°	2956.0	2932.6	2985.9	3047.4	3041.5
45°	2806.2	2801.1	2848.6	2915.8	2910.7
47.5°	2673.3	2647.7	2714.1	2779.2	2785.1
50°	2512.5	2503.0	2563.7	2642.6	2648.4
52.5°	2355.5	2348.9	2412.4	2492.1	2502.3
55°	2199.1	2182.3	2256.1	2331.3	2337.2
57.5°	2031.8	2014.3	2089.5	2171.4	2183.7
60°	1852.8	1836.0	1918.5	1994.5	1586.1
62.5°	1673.8	1662.1	1748.3	1238.4	998.0
65°	1481.6	1481.6	1567.8	899.3	902.3
67.5°	1302.0	1290.3	1169.0	808.0	808.0
70°	1109.0	1113.5	673.6	708.0	708.7
72.5°	915.4	931.5	581.6	609.3	610.8
75°	732.0	746.0	484.4	510.0	512.1
77.5°	537.7	413.5	389.4	409.2	409.9
80°	377.7	260.8	298.1	317.1	314.9
82.5°	220.6	182.6	218.4	232.4	231.6
85°	95.7	121.3	151.2	163.7	154.9
87.5°	30.6	75.3	94.2	101.6	100.8
90°	0.0	40.9	67.2	79.6	78.2
92.5°	0.0	32.1	58.5	73.1	73.8
95°	2.2	21.2	48.3	65.1	65.1
97.5°	1.5	15.3	34.3	51.1	52.6
100°	1.5	12.4	22.7	36.5	37.3
102.5°	3.6	10.2	13.8	23.4	24.1
105°	3.6	8.0	11.7	11.7	11.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	4.4	5.9	8.0	5.9	0.7
115°	3.6	5.1	7.3	5.1	0.7
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°	3.6	7.3	10.2	6.6	2.2
110°	4.4	6.6	8.7	5.9	0.7



(END OF REPORT)