

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: P829797

Luminaire Tested: **OHBL-12SE-W-UNV-L840-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P829797  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-12SE-W-UNV-L840-CD  
Description: 12000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND WIDE LENS  
Light Source: -  
Ballast/Driver: -

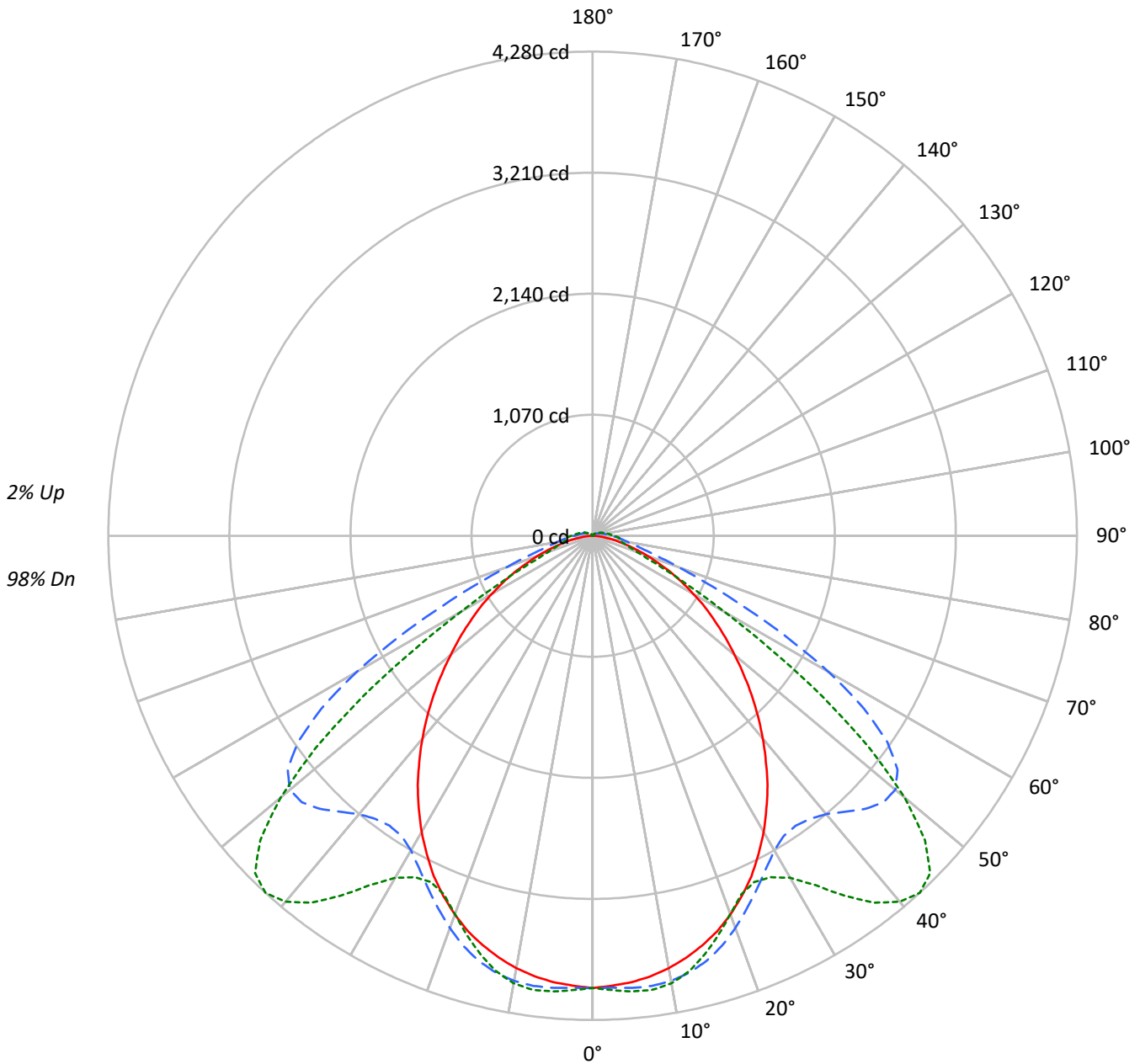
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11970.0 lumens  
Efficiency: N/A  
Efficacy: 171.0 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62  
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<sub>in</sub>): 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: P829797  
CATALOG NUMBER: OHBL-12SE-W-UNV-L840-CD

### 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	105	105	105	100	100	100	98																			
1	109	104	100	96	106	102	98	95	97	94	91	93	90	88	89	87	85	83																			
2	99	91	85	79	96	89	83	78	85	80	76	82	77	74	78	75	72	70																			
3	90	80	72	66	88	78	71	65	75	69	64	72	67	62	69	65	61	59																			
4	83	71	62	56	80	69	61	55	67	60	54	64	58	53	62	57	52	50																			
5	76	63	54	48	74	62	54	47	60	52	47	57	51	46	55	50	45	43																			
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	50	44	40	38																			
7	65	51	43	36	63	50	42	36	49	41	36	47	40	35	45	40	35	33																			
8	60	47	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29																			
9	56	43	34	29	55	42	34	29	41	34	28	39	33	28	38	32	28	26																			
10	52	39	31	26	51	39	31	26	38	31	26	36	30	26	35	30	25	24																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	13006	13006	13006
5°	12885	12916	12989
10°	12723	12826	12841
15°	12475	12544	12272
20°	12135	12045	11519
25°	11680	11458	11135
30°	11075	11006	11810
35°	10384	11135	13607
40°	9583	11971	15462
45°	8745	13469	16303
50°	7872	14754	14839
55°	7051	14575	11045
60°	6215	12167	6540
65°	5332	8262	3804
70°	4332	5225	2601
75°	3295	3629	2230
80°	2365	3039	2222
85°	1606	3069	2766



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	382.0	3.2
10°-20°	1081.8	9.0
20°-30°	1583.0	13.2
30°-40°	2055.9	17.2
40°-50°	2510.5	21.0
50°-60°	2210.9	18.5
60°-70°	1152.1	9.6
70°-80°	494.1	4.1
80°-90°	237.3	2.0
90°-100°	111.5	0.9
100°-110°	69.3	0.6
110°-120°	41.0	0.3
120°-130°	22.3	0.2
130°-140°	11.2	0.1
140°-150°	5.4	0.0
150°-160°	1.9	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3046.9	25.5
0°-40°	5102.7	42.6
0°-60°	9824.1	82.1
0°-90°	11707.6	97.8
90°-120°	221.7	1.9
90°-150°	260.6	2.2
90°-180°	262.0	2.2
0°-180°	11970.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3998	3998	3998	3998	3998	
5°	3961	3991	4012	4048	4044	376
15°	3748	3853	3890	3861	3830	1055
25°	3321	3498	3439	3374	3378	1524
35°	2695	2980	3129	3649	3883	1680
45°	1985	2497	3413	4132	4219	1530
55°	1321	2187	3178	2787	2477	1186
65°	758	1515	1455	809	696	750
75°	305	709	468	320	304	333
85°	65	253	238	233	236	72
90°	1	91	157	179	184	5
95°	2	54	125	147	151	1
105°	4	30	81	98	99	4
115°	5	17	50	61	63	5
125°	6	9	29	38	39	5
135°	5	5	14	23	24	4
145°	7	5	6	11	13	4
155°	7	7	5	5	5	2
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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CATALOG NUMBER: OHBL-12SE-W-UNV-L840-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3997.8	3997.8	3997.8	3997.8	3997.8
2.5°	3980.5	3997.8	3998.6	4022.8	4020.2
5°	3960.7	3990.9	4012.4	4047.8	4043.5
7.5°	3927.9	3975.3	4013.3	4052.1	4048.6
10°	3881.3	3946.0	3996.0	4027.9	4017.6
12.5°	3820.9	3906.3	3955.5	3962.4	3942.6
15°	3747.6	3852.9	3889.9	3860.6	3829.6
17.5°	3664.8	3788.2	3801.1	3737.3	3698.5
20°	3561.3	3701.9	3689.0	3601.0	3557.9
22.5°	3446.6	3607.0	3565.6	3473.4	3432.0
25°	3320.7	3498.4	3438.9	3374.2	3377.6
27.5°	3173.2	3375.0	3317.2	3346.6	3401.8
30°	3023.1	3245.6	3210.3	3381.1	3489.7
32.5°	2858.4	3112.8	3144.7	3482.0	3659.7
35°	2695.4	2980.0	3129.2	3649.3	3883.0
37.5°	2515.1	2845.4	3154.2	3842.5	4087.5
40°	2340.0	2714.3	3211.1	4015.9	4222.9
42.5°	2161.5	2597.0	3306.9	4118.5	4279.8
45°	1984.6	2497.0	3413.0	4132.3	4218.6
47.5°	1807.8	2412.5	3486.3	4022.8	3983.1
50°	1637.1	2337.4	3491.5	3759.7	3597.6
52.5°	1477.5	2268.4	3396.6	3340.5	3088.7
55°	1321.4	2187.3	3178.4	2786.8	2477.1
57.5°	1179.1	2075.2	2842.0	2191.7	1853.5
60°	1028.1	1923.4	2407.3	1603.4	1336.9
62.5°	889.3	1734.5	1920.0	1116.1	960.8
65°	758.2	1515.4	1455.1	809.0	696.1
67.5°	619.3	1288.6	1073.8	590.0	517.5
70°	510.6	1078.1	799.6	458.9	416.6
72.5°	399.3	878.0	597.7	372.6	349.3
75°	305.3	709.0	467.5	320.0	303.6
77.5°	225.1	560.6	376.1	282.9	267.4
80°	157.8	441.6	314.8	252.7	246.7
82.5°	106.1	341.6	268.2	240.6	241.5
85°	64.7	252.7	238.1	232.9	235.5
87.5°	31.1	179.4	204.4	212.2	214.8
90°	0.9	91.4	157.0	179.4	183.7
92.5°	0.0	69.9	138.0	160.4	164.7
95°	1.7	53.5	125.1	146.6	150.9
97.5°	1.7	44.0	112.1	134.6	137.1
100°	2.6	38.0	100.1	121.6	124.2
102.5°	2.6	33.6	89.7	108.7	110.4
105°	3.5	30.2	81.1	97.5	99.2



TEST NUMBER: P829797

CATALOG NUMBER: OHBL-12SE-W-UNV-L840-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	5.2	20.7	56.9	69.0	70.7
115°	5.2	17.3	50.0	61.2	63.0
117.5°	6.0	15.5	44.0	54.3	55.2
120°	6.0	12.9	38.0	48.3	49.2
122.5°	6.0	10.4	33.6	43.1	44.0
125°	6.0	8.6	29.3	38.0	38.8
127.5°	5.2	6.0	25.0	33.6	34.5
130°	5.2	5.2	20.7	29.3	31.1
132.5°	5.2	5.2	17.3	25.9	27.6
135°	5.2	5.2	13.8	23.3	24.2
137.5°	5.2	5.2	11.2	19.8	21.6
140°	5.2	5.2	8.6	17.3	18.1
142.5°	6.0	5.2	7.8	14.7	15.5
145°	6.9	5.2	6.0	11.2	12.9
147.5°	6.9	6.0	6.0	9.5	10.4
150°	6.9	6.9	5.2	6.9	8.6
152.5°	6.9	6.9	5.2	5.2	6.9
155°	6.9	6.9	5.2	5.2	5.2
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°	4.3	26.7	72.5	87.1	88.8
110°	4.3	23.3	63.8	77.6	79.4



(END OF REPORT)