

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: P829801

Luminaire Tested: **OHBL-12SE-W-UNV-L940-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P829801  
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-L940-CD  
Description: 12000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 4000K LEDS AND WIDE LENS  
Light Source: -  
Ballast/Driver: -

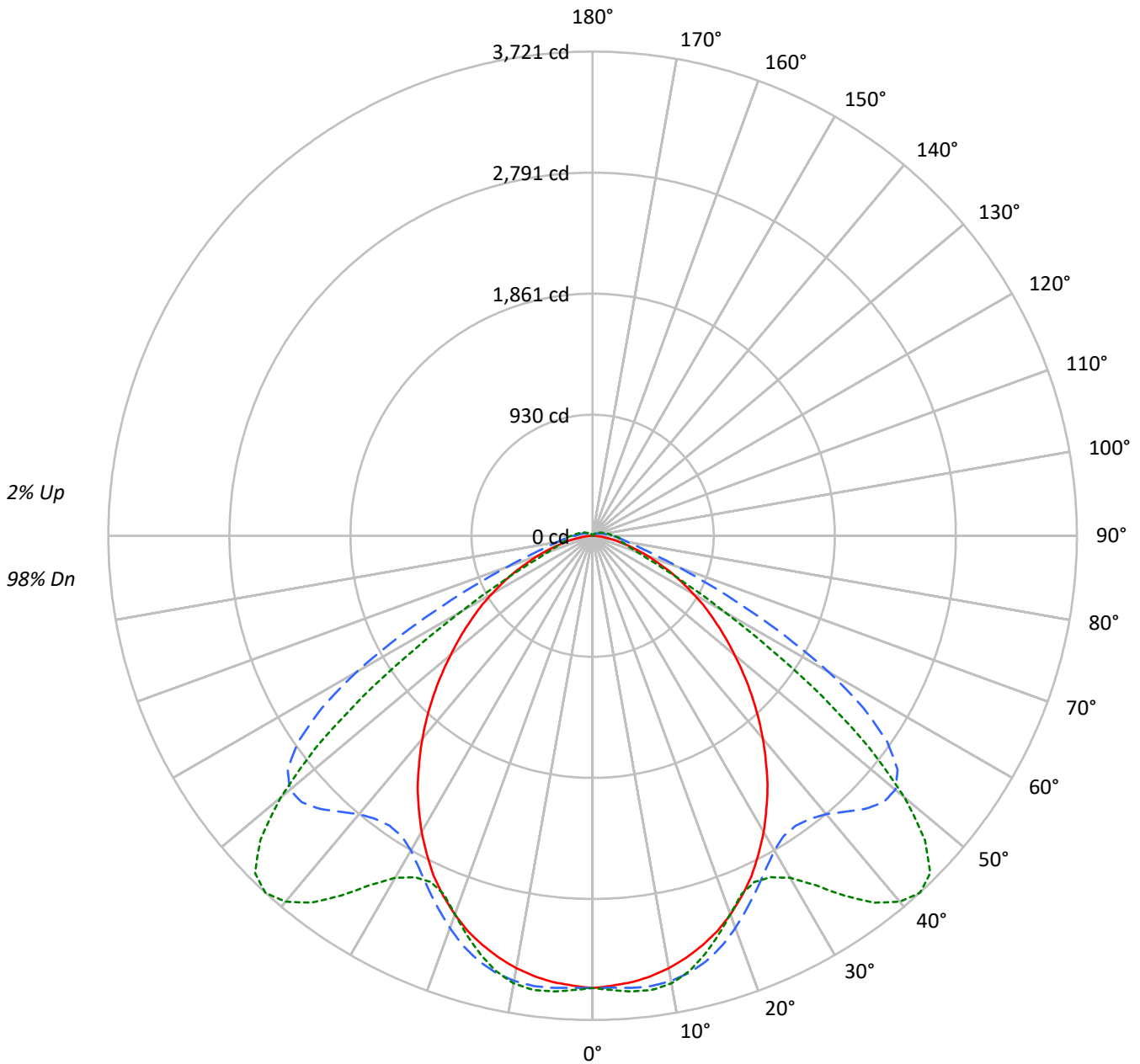
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10406.9 lumens  
Efficiency: N/A  
Efficacy: 148.7 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

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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	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°	11308	11308	11308
5°	11202	11230	11293
10°	11062	11151	11164
15°	10846	10906	10669
20°	10550	10472	10015
25°	10155	9962	9681
30°	9629	9569	10268
35°	9028	9681	11830
40°	8332	10408	13443
45°	7604	11710	14174
50°	6844	12828	12901
55°	6130	12672	9603
60°	5404	10578	5686
65°	4636	7183	3308
70°	3766	4542	2262
75°	2866	3155	1939
80°	2056	2642	1932
85°	1395	2668	2405



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	332.1	3.2
10°-20°	940.5	9.0
20°-30°	1376.3	13.2
30°-40°	1787.4	17.2
40°-50°	2182.7	21.0
50°-60°	1922.2	18.5
60°-70°	1001.7	9.6
70°-80°	429.6	4.1
80°-90°	206.3	2.0
90°-100°	96.9	0.9
100°-110°	60.2	0.6
110°-120°	35.6	0.3
120°-130°	19.3	0.2
130°-140°	9.7	0.1
140°-150°	4.7	0.0
150°-160°	1.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2649.0	25.5
0°-40°	4436.5	42.6
0°-60°	8541.3	82.1
0°-90°	10178.8	97.8
90°-120°	192.7	1.9
90°-150°	226.4	2.2
90°-180°	228.0	2.2
0°-180°	10406.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3476	3476	3476	3476	3476	
5°	3444	3470	3488	3519	3516	327
15°	3258	3350	3382	3356	3330	917
25°	2887	3042	2990	2934	2937	1325
35°	2343	2591	2721	3173	3376	1461
45°	1726	2171	2967	3593	3668	1330
55°	1149	1902	2763	2423	2154	1031
65°	659	1318	1265	703	605	652
75°	266	616	406	278	264	289
85°	56	220	207	202	205	63
90°	1	80	136	156	160	4
95°	2	46	109	128	131	1
105°	3	26	70	85	86	3
115°	4	15	44	53	55	5
125°	5	8	26	33	34	4
135°	4	4	12	20	21	3
145°	6	4	5	10	11	4
155°	6	6	4	4	4	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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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3475.7	3475.7	3475.7	3475.7	3475.7
2.5°	3460.8	3475.7	3476.5	3497.5	3495.2
5°	3443.5	3469.7	3488.5	3519.2	3515.5
7.5°	3415.0	3456.3	3489.2	3523.0	3520.0
10°	3374.5	3430.8	3474.2	3502.0	3493.0
12.5°	3322.0	3396.3	3439.0	3445.0	3427.8
15°	3258.3	3349.8	3382.0	3356.5	3329.5
17.5°	3186.3	3293.5	3304.8	3249.3	3215.5
20°	3096.3	3218.5	3207.3	3130.8	3093.3
22.5°	2996.6	3136.0	3100.1	3019.8	2983.8
25°	2887.1	3041.6	2989.8	2933.6	2936.6
27.5°	2758.9	2934.3	2884.1	2909.6	2957.6
30°	2628.4	2821.8	2791.1	2939.6	3034.1
32.5°	2485.1	2706.4	2734.1	3027.3	3181.8
35°	2343.4	2590.9	2720.6	3172.8	3376.0
37.5°	2186.7	2473.9	2742.4	3340.8	3553.7
40°	2034.5	2359.9	2791.8	3491.5	3671.5
42.5°	1879.2	2257.9	2875.1	3580.7	3721.0
45°	1725.5	2170.9	2967.3	3592.7	3667.7
47.5°	1571.8	2097.4	3031.1	3497.5	3463.0
50°	1423.3	2032.2	3035.6	3268.8	3127.8
52.5°	1284.6	1972.2	2953.1	2904.3	2685.4
55°	1148.8	1901.7	2763.4	2422.9	2153.7
57.5°	1025.1	1804.2	2470.9	1905.5	1611.5
60°	893.9	1672.3	2092.9	1394.0	1162.3
62.5°	773.1	1508.0	1669.3	970.4	835.4
65°	659.2	1317.6	1265.1	703.4	605.2
67.5°	538.4	1120.3	933.6	512.9	449.9
70°	443.9	937.4	695.1	398.9	362.2
72.5°	347.2	763.4	519.7	324.0	303.7
75°	265.5	616.4	406.4	278.2	264.0
77.5°	195.7	487.4	327.0	246.0	232.5
80°	137.2	383.9	273.7	219.7	214.5
82.5°	92.2	297.0	233.2	209.2	210.0
85°	56.2	219.7	207.0	202.5	204.7
87.5°	27.0	156.0	177.7	184.5	186.7
90°	0.7	79.5	136.5	156.0	159.7
92.5°	0.0	60.7	120.0	139.5	143.2
95°	1.5	46.5	108.7	127.5	131.2
97.5°	1.5	38.2	97.5	117.0	119.2
100°	2.2	33.0	87.0	105.7	108.0
102.5°	2.2	29.2	78.0	94.5	96.0
105°	3.0	26.2	70.5	84.7	86.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	4.5	18.0	49.5	60.0	61.5
115°	4.5	15.0	43.5	53.2	54.7
117.5°	5.2	13.5	38.2	47.2	48.0
120°	5.2	11.2	33.0	42.0	42.7
122.5°	5.2	9.0	29.2	37.5	38.2
125°	5.2	7.5	25.5	33.0	33.7
127.5°	4.5	5.2	21.7	29.2	30.0
130°	4.5	4.5	18.0	25.5	27.0
132.5°	4.5	4.5	15.0	22.5	24.0
135°	4.5	4.5	12.0	20.2	21.0
137.5°	4.5	4.5	9.7	17.2	18.7
140°	4.5	4.5	7.5	15.0	15.7
142.5°	5.2	4.5	6.7	12.7	13.5
145°	6.0	4.5	5.2	9.7	11.2
147.5°	6.0	5.2	5.2	8.2	9.0
150°	6.0	6.0	4.5	6.0	7.5
152.5°	6.0	6.0	4.5	4.5	6.0
155°	6.0	6.0	4.5	4.5	4.5
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°	3.7	23.2	63.0	75.7	77.2
110°	3.7	20.2	55.5	67.5	69.0



(END OF REPORT)