

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: P827186

Luminaire Tested: **OHBL-30SE-W-UNV-L840-CD-UPL30**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P827186  
REPORT IS A COMBINATION OF REPORTS P826286 AND G3-2310-221-4  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-30SE-W-UNV-L840-CD-UPL30  
Description: 30000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND WIDE LENS AND 3000 LUMEN UPLIGHT MODULE  
Light Source: -  
Ballast/Driver: -

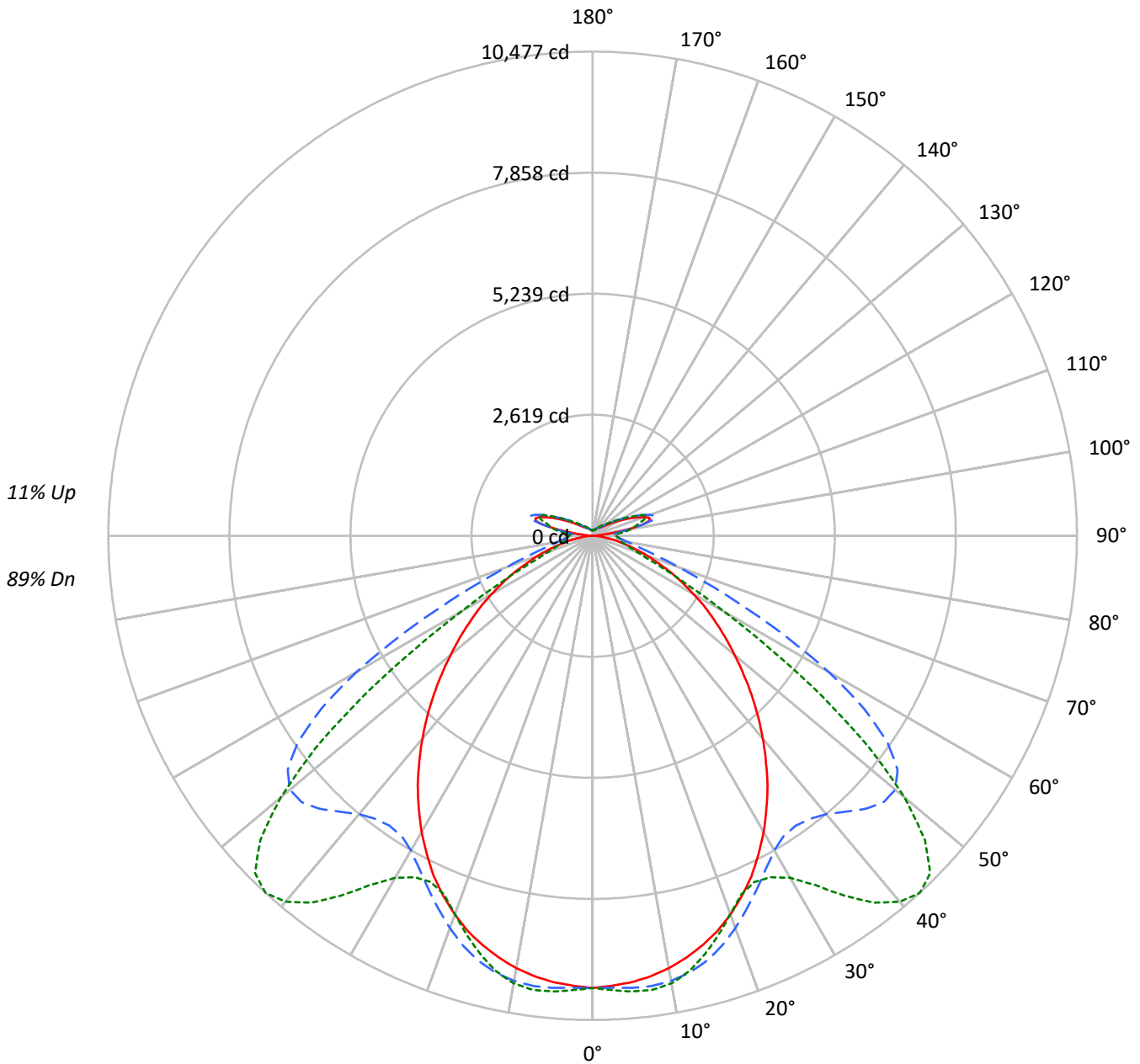
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 32364.9 lumens  
Efficiency: N/A  
Efficacy: 164.1 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')  
CIE Type: Semi-Direct  
  
Input Watts (W): 197.2  
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					20					
RC	80					70					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	116	116	116	116	112	112	112	112	105	105	105	98	98	98	92	92	92	89								
1	107	102	98	94	103	99	95	92	92	89	87	87	84	82	81	79	78	75								
2	97	89	83	77	94	86	81	76	81	76	72	76	72	69	72	68	66	63								
3	89	79	71	64	85	76	69	63	72	66	61	67	62	58	63	59	56	53								
4	81	69	61	54	78	67	60	54	63	57	52	60	54	50	56	52	48	45								
5	74	62	53	47	72	60	52	46	57	50	44	54	48	43	51	46	41	39								
6	69	56	47	41	66	54	46	40	51	44	39	48	42	37	46	40	36	34								
7	63	50	42	36	61	49	41	35	46	39	34	44	38	33	42	36	32	30								
8	59	46	37	31	57	44	37	31	42	35	30	40	34	29	38	33	28	26								
9	55	42	34	28	53	41	33	28	39	32	27	37	31	26	35	30	26	24								
10	51	38	30	25	49	37	30	25	36	29	24	34	28	24	32	27	23	21								

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

	0°	45°	90°
0°	16715	16715	16715
5°	16479	16691	16905
10°	16193	16666	16925
15°	15798	16390	16383
20°	15289	15827	15580
25°	14637	15145	15268
30°	13799	14638	16430
35°	12857	14908	19226
40°	11783	16146	22226
45°	10668	18314	23891
50°	9514	20251	22232
55°	8428	20225	16987
60°	7328	17110	10386
65°	6176	11814	6291
70°	4896	7636	4542
75°	3592	5471	4212
80°	2425	4804	4752
85°	1448	5275	7511



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	935.2	2.9
10°-20°	2648.2	8.2
20°-30°	3875.2	12.0
30°-40°	5032.7	15.5
40°-50°	6145.6	19.0
50°-60°	5412.1	16.7
60°-70°	2820.3	8.7
70°-80°	1209.4	3.7
80°-90°	587.3	1.8
90°-100°	509.6	1.6
100°-110°	1239.8	3.8
110°-120°	981.4	3.0
120°-130°	470.3	1.5
130°-140°	237.0	0.7
140°-150°	135.7	0.4
150°-160°	76.4	0.2
160°-170°	37.3	0.1
170°-180°	11.4	0.0
0°-30°	7458.6	23.0
0°-40°	12491.3	38.6
0°-60°	24049.0	74.3
0°-90°	28666.1	88.6
90°-120°	2730.8	8.4
90°-150°	3573.8	11.0
90°-180°	3699.0	11.4
0°-180°	32364.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	9786	9786	9786	9786	9786	
5°	9696	9769	9822	9909	9898	919
15°	9174	9432	9522	9451	9375	2583
25°	8129	8564	8418	8260	8268	3730
35°	6598	7295	7660	8933	9506	4112
45°	4858	6112	8355	10116	10327	3746
55°	3235	5354	7780	6822	6064	2903
65°	1856	3710	3562	1980	1704	1836
75°	747	1736	1144	783	743	815
85°	158	619	583	570	576	177
90°	9	265	438	500	511	16
95°	61	246	446	536	560	209
105°	1285	1361	1386	1131	1028	1215
115°	895	924	1004	1035	1021	897
125°	449	468	531	540	536	418
135°	268	273	300	328	330	211
145°	203	202	209	223	228	128
155°	166	169	167	169	169	75
165°	128	129	130	132	132	37
175°	116	117	117	118	118	11
180°	115	115	115	115	115	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	9786.3	9786.3	9786.3	9786.3	9786.3
2.5°	9744.1	9786.3	9788.4	9847.6	9841.2
5°	9695.5	9769.4	9822.2	9908.8	9898.2
7.5°	9615.3	9731.4	9824.3	9919.4	9910.9
10°	9501.3	9659.6	9782.1	9860.2	9834.9
12.5°	9353.5	9562.5	9682.9	9699.8	9651.2
15°	9174.0	9431.6	9522.4	9450.6	9374.6
17.5°	8971.3	9273.3	9304.9	9148.7	9053.7
20°	8718.0	9062.1	9030.5	8815.1	8709.5
22.5°	8437.1	8829.9	8728.5	8502.6	8401.3
25°	8128.9	8563.8	8418.1	8259.8	8268.2
27.5°	7767.8	8261.9	8120.4	8192.2	8327.4
30°	7400.5	7945.2	7858.6	8276.7	8542.7
32.5°	6997.2	7620.0	7698.2	8523.7	8958.7
35°	6598.1	7294.9	7660.2	8933.3	9505.5
37.5°	6156.8	6965.5	7721.4	9406.3	10005.9
40°	5728.2	6644.6	7860.7	9830.7	10337.4
42.5°	5291.2	6357.4	8095.1	10081.9	10476.8
45°	4858.3	6112.5	8354.8	10115.7	10326.9
47.5°	4425.5	5905.6	8534.3	9847.6	9750.4
50°	4007.4	5721.9	8546.9	9203.6	8806.6
52.5°	3616.8	5553.0	8314.7	8177.4	7560.9
55°	3234.7	5354.5	7780.5	6821.9	6063.9
57.5°	2886.3	5080.0	6957.1	5365.1	4537.4
60°	2516.8	4708.4	5892.9	3925.1	3272.7
62.5°	2176.9	4246.0	4700.0	2732.1	2352.1
65°	1855.9	3709.7	3561.9	1980.5	1703.9
67.5°	1516.0	3154.4	2628.7	1444.2	1266.8
70°	1249.9	2639.2	1957.3	1123.3	1019.8
72.5°	977.6	2149.4	1463.2	912.1	855.1
75°	747.4	1735.6	1144.4	783.3	743.2
77.5°	551.1	1372.4	920.6	692.5	654.5
80°	386.4	1081.0	770.7	618.6	603.9
82.5°	259.7	836.1	656.6	589.1	591.2
85°	158.4	618.6	582.7	570.1	576.4
87.5°	76.0	439.2	500.4	519.4	525.7
90°	9.1	264.8	438.3	500.2	510.7
92.5°	21.0	222.0	403.8	473.7	486.3
95°	61.2	245.9	446.2	535.9	559.5
97.5°	352.2	453.7	574.5	678.4	723.7
100°	693.3	818.9	785.9	847.7	859.0
102.5°	1090.3	1186.3	1081.6	980.0	954.3
105°	1285.4	1360.9	1386.5	1130.6	1027.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1036.7	1082.7	1172.4	1188.9	1169.1
115°	894.7	924.2	1003.5	1034.9	1021.1
117.5°	758.8	787.0	858.7	876.0	870.1
120°	640.8	666.7	725.9	745.2	739.3
122.5°	537.8	563.3	625.3	637.6	630.7
125°	448.8	468.1	530.8	539.9	536.0
127.5°	380.7	391.8	447.2	467.3	464.5
130°	329.7	337.7	385.7	408.8	412.0
132.5°	294.7	301.7	338.2	362.3	365.6
135°	267.7	272.7	299.8	328.0	330.1
137.5°	243.7	250.7	270.4	295.6	299.8
140°	226.7	231.7	245.1	268.2	271.3
142.5°	213.8	215.7	227.0	245.9	249.0
145°	202.9	201.7	208.8	223.4	227.7
147.5°	190.9	192.8	196.8	207.2	209.3
150°	181.9	184.9	184.7	189.9	195.1
152.5°	173.9	175.9	174.7	176.7	180.9
155°	165.9	168.9	166.7	168.7	168.7
157.5°	143.0	145.0	147.0	148.0	149.0
160°	138.0	139.0	141.0	142.0	143.0
162.5°	132.0	134.0	135.0	136.0	137.0
165°	128.0	129.0	130.0	132.0	132.0
167.5°	124.0	125.0	126.0	127.0	127.0
170°	121.0	122.0	123.0	123.0	123.0
172.5°	118.0	119.0	120.0	120.0	120.0
175°	116.0	117.0	117.0	118.0	118.0
177.5°	115.0	116.0	116.0	116.0	117.0
180°	115.0	115.0	115.0	115.0	115.0



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	1286.6	1359.5	1424.4	1305.3	<i>1169.5</i>
110°	1180.6	1248.0	1322.2	1305.0	<i>1239.2</i>



(END OF REPORT)