

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: P827176

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

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P827176  
REPORT IS A COMBINATION OF REPORTS P826281 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-A-UNV-L840-CD-UPL30  
Description: 30000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND AISLE LENS AND 3000 LUMEN UPLIGHT MODULE  
Light Source: -  
Ballast/Driver: -

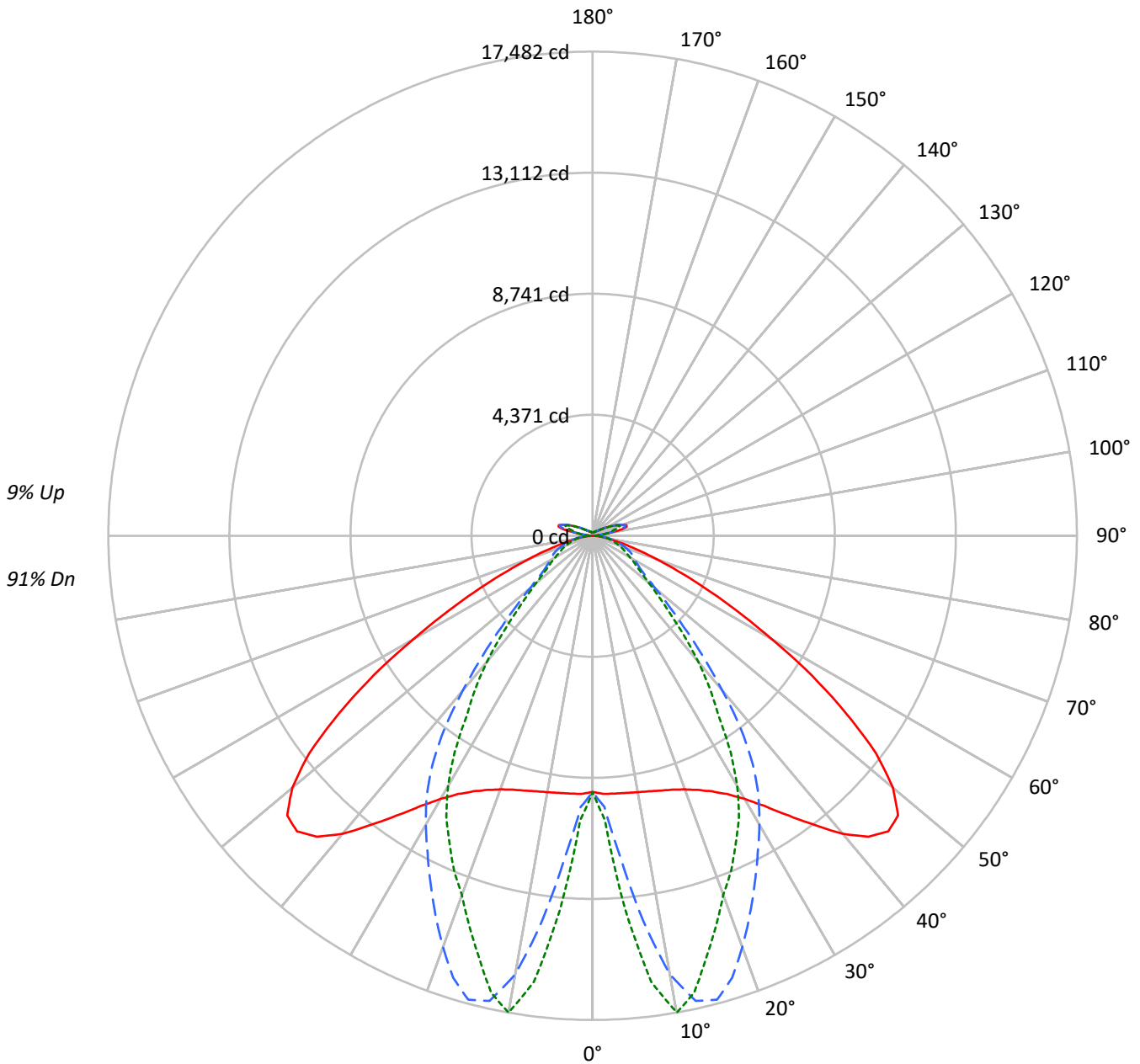
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 32749.9 lumens  
Efficiency: N/A  
Efficacy: 166.1 lumens/watt  
Spacing Criteria (0/90/45): 2.18 / 1.37 / 1.3  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')  
CIE Type: 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

TEST NUMBER: P827176

CATALOG NUMBER: OHBL-30SE-A-UNV-L840-CD-UPL30

### 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	117	117	117	117	113	113	113	113	106	106	106	99	99	99	93	93	93	93	93	93	91
1	108	104	101	98	105	101	98	95	95	93	90	90	88	86	85	83	82	82	82	82	79
2	100	93	87	83	97	91	85	81	86	81	78	81	78	75	77	74	72	72	72	72	69
3	93	84	77	71	89	81	75	70	77	72	67	73	69	65	70	66	63	63	63	63	61
4	86	75	68	62	83	73	66	61	70	64	59	67	62	58	64	59	56	56	56	56	54
5	80	68	60	55	77	67	59	54	64	57	53	61	55	51	58	54	50	50	50	50	48
6	74	62	54	49	72	61	53	48	58	52	47	56	50	46	53	49	45	45	45	45	43
7	69	57	49	44	67	56	48	43	53	47	42	51	46	41	49	44	40	40	40	40	39
8	65	52	45	39	63	51	44	39	49	43	38	47	42	37	46	41	37	37	37	37	35
9	60	48	41	36	59	47	40	35	46	39	35	44	38	34	42	37	34	34	34	34	32
10	57	45	37	33	55	44	37	32	42	36	32	41	35	31	39	34	31	31	31	31	29

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

	0°	45°	90°
0°	15801	15801	15801
5°	15882	19873	23163
10°	16023	27399	30086
15°	16405	29847	27614
20°	17083	27694	24678
25°	18329	24906	22573
30°	20438	22426	20072
35°	24027	19629	15995
40°	28891	14948	12730
45°	33140	10184	9060
50°	33597	6986	6701
55°	29081	5498	5475
60°	21723	5144	4925
65°	14890	5160	4665
70°	9520	4978	4518
75°	5725	4607	4323
80°	3368	4048	4461
85°	1621	3476	4136



TEST NUMBER: P827176

CATALOG NUMBER: OHBL-30SE-A-UNV-L840-CD-UPL30

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1207.8	3.7
10°-20°	4262.8	13.0
20°-30°	6281.4	19.2
30°-40°	6600.8	20.2
40°-50°	5050.8	15.4
50°-60°	3049.9	9.3
60°-70°	1861.1	5.7
70°-80°	1015.8	3.1
80°-90°	363.1	1.1
90°-100°	236.7	0.7
100°-110°	1070.2	3.3
110°-120°	881.1	2.7
120°-130°	415.8	1.3
130°-140°	209.6	0.6
140°-150°	122.5	0.4
150°-160°	71.8	0.2
160°-170°	37.3	0.1
170°-180°	11.4	0.0
0°-30°	11752.0	35.9
0°-40°	18352.8	56.0
0°-60°	26453.5	80.8
0°-90°	29693.5	90.7
90°-120°	2188.0	6.7
90°-150°	2936.0	9.0
90°-180°	3056.0	9.3
0°-180°	32749.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	9251	9251	9251	9251	9251	
5°	9344	10025	11695	13058	13562	893
15°	9526	14837	17341	16181	15801	2709
25°	10180	17220	13844	12534	12224	4758
35°	12330	13790	10086	8399	7908	7822
45°	15092	7869	4646	4088	3916	11403
55°	11161	2668	2115	1960	1954	9862
65°	4474	1689	1556	1331	1264	4585
75°	1191	1050	964	795	763	1371
85°	177	326	384	350	317	219
90°	7	41	54	61	61	14
95°	57	115	140	177	190	206
105°	1277	1287	1188	892	785	1206
115°	882	882	881	885	867	884
125°	434	447	459	447	441	406
135°	255	260	266	271	271	201
145°	186	189	194	196	196	118
155°	149	152	154	156	156	70
165°	128	129	130	132	132	37
175°	116	117	117	118	118	11
180°	115	115	115	115	115	



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CATALOG NUMBER: OHBL-30SE-A-UNV-L840-CD-UPL30

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	9251.3	9251.3	9251.3	9251.3	9251.3
2.5°	9327.0	9422.3	9797.5	10187.1	10281.9
5°	9344.1	10024.9	11694.6	13058.1	13561.9
7.5°	9363.9	11001.2	14045.1	15714.5	16248.8
10°	9401.6	12235.7	16081.8	17280.3	17482.2
12.5°	9448.4	13543.7	17202.5	17158.9	16904.2
15°	9526.2	14837.3	17340.6	16181.4	15801.0
17.5°	9607.9	15931.9	16738.4	15117.4	14786.2
20°	9740.8	16744.3	15801.8	14171.7	13795.2
22.5°	9932.4	17191.0	14819.5	13316.4	13070.8
25°	10179.6	17220.0	13844.0	12533.7	12224.2
27.5°	10510.8	16820.5	12908.9	11766.8	11439.9
30°	10961.5	16055.6	12040.1	10842.1	10436.6
32.5°	11573.6	14954.8	11144.4	9725.7	9271.1
35°	12330.5	13790.0	10085.6	8399.1	7908.0
37.5°	13156.5	12496.8	8800.6	7224.5	6938.5
40°	14045.1	11164.2	7277.6	6125.2	5920.5
42.5°	14738.6	9715.4	5863.0	5090.2	4872.4
45°	15092.0	7868.7	4645.9	4088.1	3916.3
47.5°	14954.4	6108.1	3683.1	3248.3	3196.7
50°	14151.0	4510.2	2948.3	2675.8	2654.4
52.5°	12895.1	3361.7	2435.4	2266.8	2229.9
55°	11161.0	2668.3	2114.9	1960.1	1954.2
57.5°	9370.7	2266.8	1919.7	1799.9	1758.2
60°	7460.9	2021.2	1771.7	1636.4	1551.9
62.5°	5848.3	1849.5	1663.0	1479.3	1400.4
65°	4474.5	1689.2	1555.9	1331.4	1263.5
67.5°	3335.5	1536.5	1425.0	1175.8	1136.2
70°	2430.2	1379.8	1275.8	1045.7	1014.4
72.5°	1732.0	1223.5	1126.7	923.5	889.0
75°	1191.3	1050.5	963.6	795.0	762.9
77.5°	803.7	874.0	802.9	678.8	665.3
80°	536.7	693.1	649.4	575.2	566.9
82.5°	325.7	503.0	512.5	467.7	445.1
85°	177.3	325.7	384.0	349.9	317.4
87.5°	69.4	180.5	264.6	237.6	223.7
90°	7.0	41.0	54.0	61.0	61.0
92.5°	21.0	51.0	66.0	81.0	83.0
95°	57.0	115.0	140.0	177.0	190.0
97.5°	348.0	346.0	300.0	349.0	388.0
100°	687.0	726.0	541.0	550.0	555.0
102.5°	1084.0	1104.0	862.0	714.0	684.0
105°	1277.0	1287.0	1188.0	892.0	785.0



TEST NUMBER: P827176

CATALOG NUMBER: OHBL-30SE-A-UNV-L840-CD-UPL30

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1024.0	1032.0	1033.0	1020.0	996.0
115°	882.0	882.0	881.0	885.0	867.0
117.5°	744.0	749.0	751.0	743.0	735.0
120°	626.0	635.0	633.0	627.0	619.0
122.5°	523.0	538.0	543.0	532.0	523.0
125°	434.0	447.0	459.0	447.0	441.0
127.5°	368.0	377.0	386.0	385.0	380.0
130°	317.0	325.0	335.0	337.0	336.0
132.5°	282.0	289.0	296.0	299.0	298.0
135°	255.0	260.0	266.0	271.0	271.0
137.5°	231.0	238.0	243.0	247.0	247.0
140°	214.0	219.0	224.0	226.0	227.0
142.5°	199.0	203.0	208.0	210.0	211.0
145°	186.0	189.0	194.0	196.0	196.0
147.5°	174.0	178.0	182.0	184.0	184.0
150°	165.0	168.0	172.0	173.0	174.0
152.5°	157.0	159.0	162.0	164.0	164.0
155°	149.0	152.0	154.0	156.0	156.0
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°	1276.0	1294.0	1247.0	1092.0	952.0
110°	1170.0	1191.0	1166.0	1115.0	1045.0



(END OF REPORT)