

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: P827173

Luminaire Tested: **OHBL-30HE-W-UNV-L840-CD-UPL15**

Issue Date: 5/3/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P827173  
REPORT IS A COMBINATION OF REPORTS P826124 AND G3-2310-221-10  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-30HE-W-UNV-L840-CD-UPL15  
Description: 30000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND WIDE LENS AND 1500 LUMEN UPLIGHT MODULE  
Light Source: -  
Ballast/Driver: -

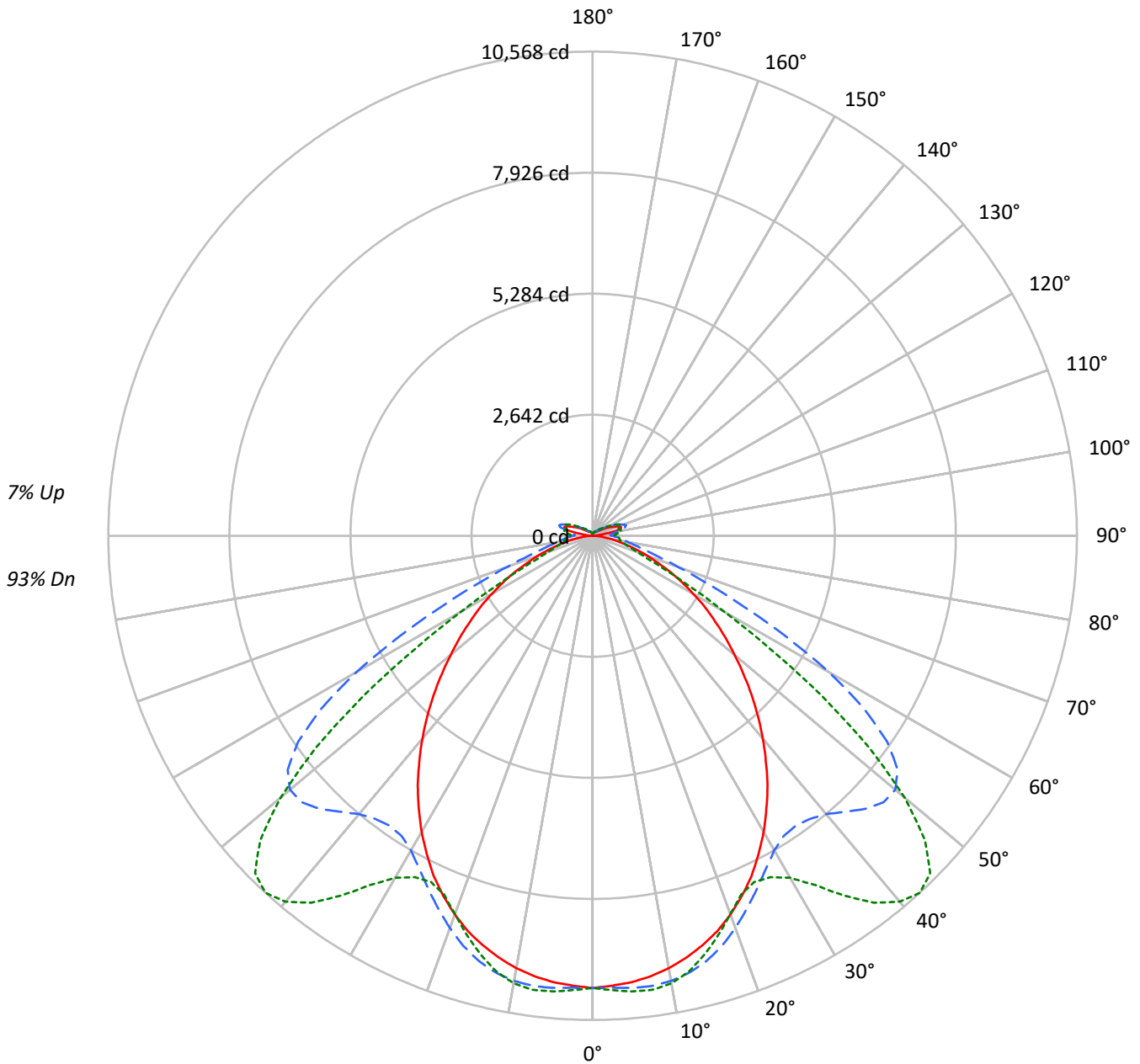
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 31075.2 lumens  
Efficiency: N/A  
Efficacy: 178.5 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 174.1  
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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	96	96	93																			
1	108	103	99	95	104	100	96	93	95	92	89	90	87	85	85	83	81	79																			
2	98	90	84	78	95	88	82	77	83	78	74	79	75	71	75	72	69	66																			
3	90	79	71	65	86	77	70	64	73	67	62	70	64	60	66	62	58	56																			
4	82	70	62	55	79	68	60	54	65	58	53	62	56	51	59	54	50	48																			
5	75	63	54	47	73	61	53	47	58	51	45	55	49	44	53	48	43	41																			
6	69	56	47	41	67	55	47	41	52	45	40	50	44	39	48	42	38	36																			
7	64	51	42	36	62	50	41	36	47	40	35	45	39	34	43	38	33	31																			
8	59	46	38	32	58	45	37	32	43	36	31	41	35	30	40	34	30	28																			
9	55	42	34	28	54	41	34	28	40	33	28	38	32	27	37	31	27	25																			
10	52	39	31	26	50	38	30	25	37	30	25	35	29	25	34	28	24	22																			

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

	0°	45°	90°
0°	15611	15611	15611
5°	15400	15596	15789
10°	15143	15579	15808
15°	14784	15329	15301
20°	14317	14809	14551
25°	13715	14178	14260
30°	12939	13710	15345
35°	12066	13972	17956
40°	11068	15141	20758
45°	10031	17187	22313
50°	8957	19020	20764
55°	7945	19014	15866
60°	6920	16104	9700
65°	5844	11136	5876
70°	4647	7213	4242
75°	3423	5183	3934
80°	2327	4573	4438
85°	1408	5067	7015



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	943.3	3.0
10°-20°	2671.1	8.6
20°-30°	3908.8	12.6
30°-40°	5076.4	16.3
40°-50°	6198.9	19.9
50°-60°	5459.1	17.6
60°-70°	2844.7	9.2
70°-80°	1219.9	3.9
80°-90°	589.7	1.9
90°-100°	420.9	1.4
100°-110°	675.7	2.2
110°-120°	534.7	1.7
120°-130°	263.1	0.8
130°-140°	131.6	0.4
140°-150°	73.7	0.2
150°-160°	39.9	0.1
160°-170°	18.3	0.1
170°-180°	5.6	0.0
0°-30°	7523.2	24.2
0°-40°	12599.6	40.5
0°-60°	24257.5	78.1
0°-90°	28911.9	93.0
90°-120°	1631.3	5.2
90°-150°	2099.7	6.8
90°-180°	2163.0	7.0
0°-180°	31075.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	9871	9871	9871	9871	9871	
5°	9780	9854	9907	9995	9984	927
15°	9254	9513	9605	9532	9456	2606
25°	8199	8638	8491	8331	8340	3763
35°	6655	7358	7727	9011	9588	4148
45°	4900	6166	8427	10203	10416	3779
55°	3263	5401	7848	6881	6116	2928
65°	1872	3742	3593	1998	1719	1852
75°	754	1751	1154	790	750	822
85°	160	624	588	575	581	178
90°	5	248	417	481	497	13
95°	32	204	416	504	538	103
105°	642	698	732	617	590	608
115°	449	479	564	589	584	453
125°	226	244	301	321	322	212
135°	138	142	166	192	195	109
145°	108	106	110	125	129	68
155°	90	91	89	89	90	39
165°	63	63	64	64	64	18
175°	57	57	57	58	58	6
180°	57	57	57	57	57	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	9871.2	9871.2	9871.2	9871.2	9871.2
2.5°	9828.6	9871.2	9873.3	9932.9	9926.5
5°	9779.6	9854.1	9907.4	9994.7	9984.0
7.5°	9698.7	9815.8	9909.5	10005.3	9996.8
10°	9583.7	9743.4	9866.9	9945.7	9920.1
12.5°	9434.6	9645.4	9766.8	9783.8	9734.9
15°	9253.6	9513.4	9605.0	9532.5	9455.9
17.5°	9049.1	9353.6	9385.6	9228.0	9132.2
20°	8793.5	9140.7	9108.7	8891.5	8785.0
22.5°	8510.3	8906.4	8804.2	8576.3	8474.1
25°	8199.3	8638.1	8491.1	8331.4	8339.9
27.5°	7835.2	8333.5	8190.8	8263.2	8399.5
30°	7464.6	8014.1	7926.7	8348.4	8616.8
32.5°	7057.8	7686.1	7764.9	8597.6	9036.3
35°	6655.3	7358.1	7726.6	9010.8	9587.9
37.5°	6210.2	7025.9	7788.3	9487.8	10092.7
40°	5777.9	6702.2	7928.9	9915.9	10427.0
42.5°	5337.0	6412.5	8165.3	10169.3	10567.6
45°	4900.4	6165.5	8427.2	10203.4	10416.4
47.5°	4463.9	5956.8	8608.3	9932.9	9835.0
50°	4042.2	5771.5	8621.0	9283.4	8883.0
52.5°	3648.2	5601.1	8386.8	8248.3	7626.5
55°	3262.7	5400.9	7847.9	6881.1	6116.5
57.5°	2911.3	5124.1	7017.4	5411.6	4576.7
60°	2538.6	4749.2	5944.0	3959.1	3301.0
62.5°	2195.7	4282.8	4740.7	2755.8	2372.5
65°	1872.0	3741.9	3592.8	1997.7	1718.7
67.5°	1529.1	3181.8	2651.5	1456.7	1277.8
70°	1260.8	2662.1	1974.2	1133.0	1028.6
72.5°	986.1	2168.0	1475.9	920.0	862.5
75°	753.9	1750.6	1154.3	790.1	749.7
77.5°	555.9	1384.3	928.5	698.5	660.2
80°	389.7	1090.4	777.3	624.0	609.1
82.5°	262.0	843.4	662.3	594.2	596.3
85°	159.7	624.0	587.8	575.0	581.4
87.5°	76.7	443.0	504.7	523.9	530.3
90°	5.1	247.7	416.6	481.0	496.6
92.5°	10.0	200.5	386.8	460.1	480.8
95°	32.3	204.0	415.8	504.0	537.7
97.5°	170.3	295.6	480.9	567.2	591.6
100°	343.4	457.7	546.0	614.3	627.7
102.5°	548.4	607.1	608.5	616.3	614.6
105°	641.5	698.5	732.2	616.7	589.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	521.8	567.1	647.6	659.4	645.6
115°	448.8	478.6	563.5	589.2	584.5
117.5°	388.9	410.3	484.6	508.2	508.3
120°	326.9	347.9	410.7	434.3	435.4
122.5°	272.9	291.6	354.1	374.5	375.6
125°	225.9	244.3	301.4	320.7	321.8
127.5°	192.8	201.9	256.8	278.1	278.2
130°	168.8	173.8	218.1	240.4	244.7
132.5°	151.8	155.8	190.6	212.9	218.2
135°	137.8	141.8	166.1	191.5	194.6
137.5°	127.8	129.8	148.7	171.0	176.2
140°	117.8	120.8	132.3	154.6	157.7
142.5°	112.9	112.8	121.2	140.2	142.3
145°	108.0	105.8	109.9	124.7	128.9
147.5°	103.0	102.9	104.9	113.4	116.6
150°	98.0	100.0	96.8	102.0	106.3
152.5°	94.0	95.0	92.8	92.8	98.0
155°	90.0	91.0	88.8	88.8	89.8
157.5°	70.0	71.0	72.0	73.0	73.0
160°	67.0	68.0	69.0	69.0	70.0
162.5°	65.0	66.0	66.0	67.0	67.0
165°	63.0	63.0	64.0	64.0	64.0
167.5°	61.0	61.0	62.0	62.0	63.0
170°	59.0	60.0	60.0	60.0	61.0
172.5°	58.0	58.0	59.0	59.0	59.0
175°	57.0	57.0	57.0	58.0	58.0
177.5°	56.0	57.0	57.0	57.0	57.0
180°	57.0	57.0	57.0	57.0	57.0



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	643.6	700.0	765.9	667.1	598.4
110°	594.6	646.5	720.6	703.7	645.9



(END OF REPORT)