

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: P830201

Luminaire Tested: **OHBL-30HE-N-UNV-L740-CD**

Issue Date: 5/3/2024



**Test Information**

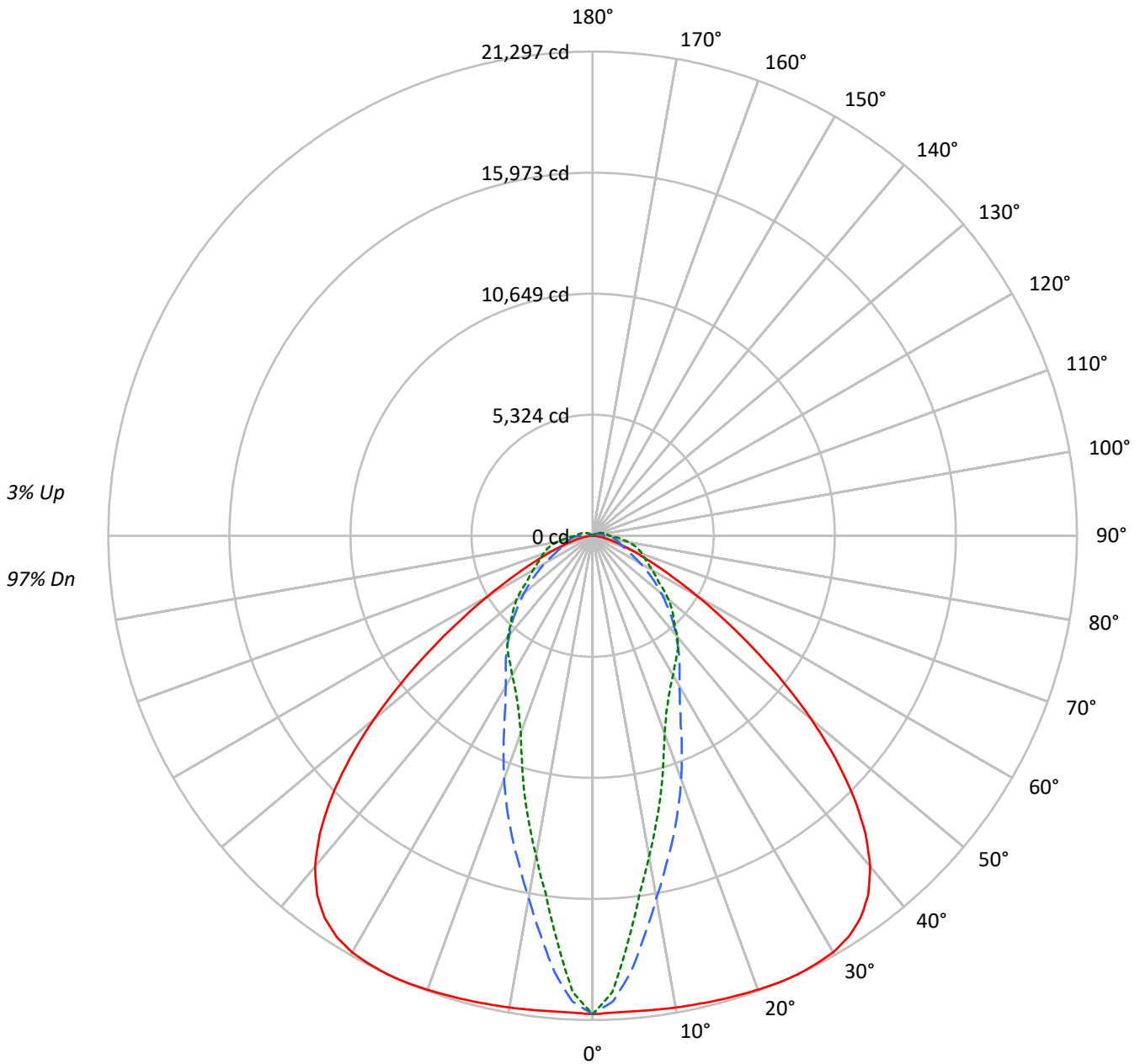
Test Method: LM-79-08  
Report Number: P830201  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-30HE-N-UNV-L740-CD  
Description: 30000 LUMEN OHBL HE LED LUMINAIRE WITH 70CRI, 4000K LEDS AND NARROW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 31051.0 lumens  
Efficiency: N/A  
Efficacy: 189.6 lumens/watt  
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78  
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 163.8  
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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	97																	
1	109	104	100	97	106	102	98	95	97	94	91	92	90	88	88	86	85	85	85	82																	
2	100	93	86	81	97	90	85	80	86	82	78	83	79	75	79	76	73	73	73	71																	
3	92	83	75	69	90	81	74	69	78	72	67	74	70	65	72	67	64	64	64	62																	
4	85	74	66	60	83	73	66	60	70	64	59	67	62	57	65	60	56	56	56	54																	
5	79	67	59	53	77	66	59	53	64	57	52	62	56	51	59	54	50	50	50	48																	
6	74	62	53	47	72	60	53	47	58	52	46	56	50	46	55	49	45	45	45	43																	
7	69	56	48	43	67	55	48	42	54	47	42	52	46	41	50	45	41	41	41	39																	
8	65	52	44	39	63	51	44	39	50	43	38	48	42	38	47	41	37	37	37	35																	
9	61	48	41	35	59	47	40	35	46	40	35	45	39	35	44	38	34	34	34	32																	
10	57	45	37	33	56	44	37	32	43	37	32	42	36	32	41	35	32	32	32	30																	

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

	0°	45°	90°
0°	33272	33272	33272
5°	33205	30314	28190
10°	33579	25546	22618
15°	34235	21858	18577
20°	35197	18491	15035
25°	36414	15313	13183
30°	37673	13199	12256
35°	38457	12035	11686
40°	37798	10878	11097
45°	34773	9838	10284
50°	29338	8698	9663
55°	22292	7626	8611
60°	15622	6548	8258
65°	10508	5648	8102
70°	7176	5311	8525
75°	4980	5494	9147
80°	3429	6113	9482
85°	2005	7717	10078



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1771.0	5.7
10°-20°	4166.2	13.4
20°-30°	5222.3	16.8
30°-40°	5541.5	17.8
40°-50°	5010.4	16.1
50°-60°	3632.8	11.7
60°-70°	2279.8	7.3
70°-80°	1508.7	4.9
80°-90°	869.2	2.8
90°-100°	421.1	1.4
100°-110°	290.6	0.9
110°-120°	179.3	0.6
120°-130°	86.8	0.3
130°-140°	39.9	0.1
140°-150°	21.8	0.1
150°-160°	9.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
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0°-30°	11159.5	35.9
0°-40°	16701.0	53.8
0°-60°	25344.2	81.6
0°-90°	30001.8	96.6
90°-120°	891.1	2.9
90°-150°	1039.7	3.3
90°-180°	1049.0	3.4
0°-180°	31051.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	21039	21039	21039	21039	21039	
5°	20997	20458	19257	18364	17901	###
15°	21157	17244	13696	12180	11628	6000
25°	21297	13334	9171	8140	7881	9839
35°	20534	8864	6656	6448	6446	12765
45°	16233	5615	4824	4940	5024	12366
55°	8594	3480	3148	3414	3536	7765
65°	3074	2018	1822	2335	2595	3198
75°	949	1087	1223	1900	2014	1058
85°	166	450	895	1246	1143	199
90°	0	188	519	731	737	11
95°	8	132	456	621	649	7
105°	16	88	332	440	452	16
115°	22	62	224	280	286	22
125°	24	32	114	144	142	21
135°	20	24	50	78	78	16
145°	24	26	30	46	44	14
155°	24	30	32	34	30	7
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°	21038.7	21038.7	21038.7	21038.7	21038.7
2.5°	20994.7	20874.5	20500.1	20271.8	20079.6
5°	20996.7	20458.0	19256.6	18363.6	17901.0
7.5°	21026.7	19829.3	17664.7	16361.2	15852.6
10°	21072.7	19050.4	16179.0	14789.4	14314.8
12.5°	21106.8	18173.3	14871.5	13443.8	12923.2
15°	21156.8	17244.3	13696.1	12180.3	11627.7
17.5°	21202.9	16369.2	12534.7	10950.9	10336.1
20°	21249.0	15426.1	11373.4	9741.4	9234.8
22.5°	21293.0	14430.9	10240.0	8802.3	8455.9
25°	21297.0	13333.7	9170.8	8139.6	7881.3
27.5°	21245.0	12196.3	8303.8	7584.9	7424.7
30°	21154.8	11093.0	7631.0	7184.4	7070.3
32.5°	20930.6	9967.7	7110.4	6798.0	6731.9
35°	20534.1	8864.4	6655.8	6447.6	6445.6
37.5°	19909.4	7885.3	6163.2	6127.2	6171.2
40°	18986.3	7028.3	5696.7	5792.8	5792.8
42.5°	17754.9	6283.4	5274.2	5372.3	5346.3
45°	16233.1	5614.6	4823.7	4939.8	5023.9
47.5°	14469.0	5025.9	4363.1	4587.4	4703.5
50°	12550.7	4465.2	3942.6	4229.0	4361.1
52.5°	10540.4	3946.6	3532.1	3860.5	3966.7
55°	8594.1	3480.1	3147.7	3414.0	3536.2
57.5°	6832.0	3035.6	2771.3	3023.6	3275.8
60°	5316.2	2653.1	2416.8	2777.3	3029.6
62.5°	4060.8	2312.7	2084.4	2547.0	2799.3
65°	3073.6	2018.4	1822.1	2334.7	2595.0
67.5°	2316.7	1764.1	1617.9	2180.6	2434.9
70°	1740.0	1517.8	1453.7	2084.4	2312.7
72.5°	1285.5	1291.5	1323.6	2000.3	2174.6
75°	949.1	1087.3	1223.4	1900.2	2014.4
77.5°	678.8	901.1	1133.3	1780.1	1820.1
80°	470.6	734.9	1039.2	1621.9	1587.9
82.5°	294.3	588.7	955.1	1447.7	1353.6
85°	166.2	450.5	895.1	1245.5	1143.3
87.5°	74.1	336.4	782.9	971.1	907.1
90°	0.0	188.2	518.6	730.9	736.9
92.5°	4.0	156.2	478.6	668.8	688.8
95°	8.0	132.2	456.5	620.7	648.8
97.5°	10.0	116.1	428.5	576.7	600.7
100°	12.0	104.1	394.5	530.6	550.6
102.5°	14.0	96.1	362.4	482.6	498.6
105°	16.0	88.1	332.4	440.5	452.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	20.0	68.1	250.3	316.4	326.4
115°	22.0	62.1	224.3	280.3	286.3
117.5°	24.0	54.1	196.2	246.3	248.3
120°	24.0	48.1	168.2	210.2	210.2
122.5°	24.0	40.0	140.2	174.2	172.2
125°	24.0	32.0	114.1	144.2	142.2
127.5°	22.0	26.0	92.1	120.1	118.1
130°	22.0	26.0	74.1	102.1	102.1
132.5°	20.0	24.0	60.1	88.1	88.1
135°	20.0	24.0	50.1	78.1	78.1
137.5°	20.0	26.0	42.0	68.1	68.1
140°	20.0	24.0	36.0	60.1	60.1
142.5°	22.0	24.0	32.0	52.1	52.1
145°	24.0	26.0	30.0	46.1	44.1
147.5°	24.0	28.0	30.0	40.0	38.0
150°	24.0	30.0	30.0	36.0	34.0
152.5°	24.0	30.0	30.0	34.0	32.0
155°	24.0	30.0	32.0	34.0	30.0
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°	16.0	82.1	304.4	394.5	408.5
110°	18.0	74.1	278.3	352.4	366.4



(END OF REPORT)