

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: P830346

Luminaire Tested: **OHBL-36HE-N-UNV-L750-CD**

Issue Date: 5/3/2024



**Test Information**

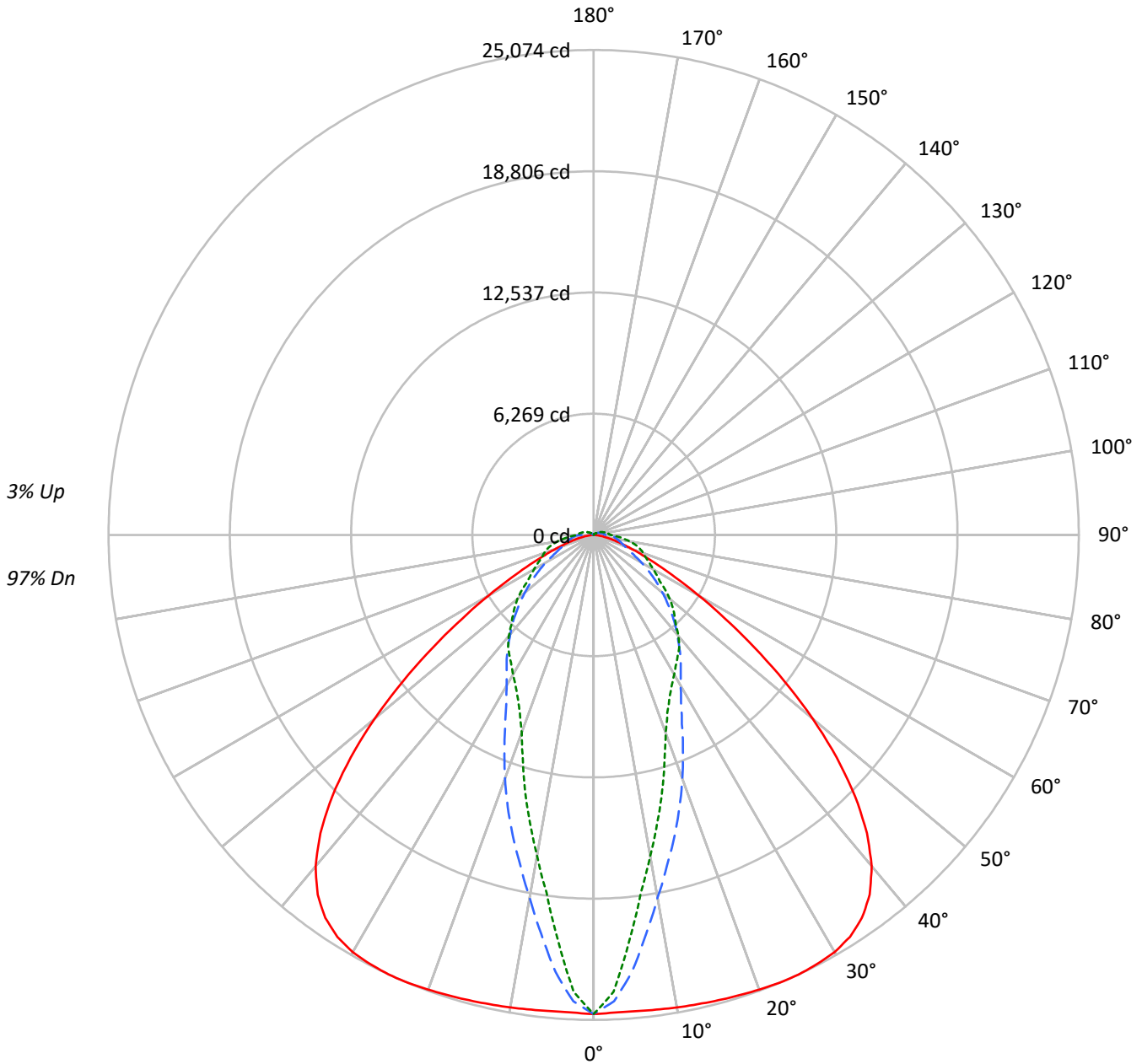
Test Method: LM-79-08  
Report Number: P830346  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-36HE-N-UNV-L750-CD  
Description: 36000 LUMEN OHBL HE LED LUMINAIRE WITH 70CRI, 5000K LEDS AND NARROW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 36558.0 lumens  
Efficiency: N/A  
Efficacy: 172.4 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): 212  
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				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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	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	85	82
2	100	93	86	81	97	90	85	80	86	82	78	83	79	75	79	76	73	73	73	73	71
3	92	83	75	69	90	81	74	69	78	72	67	74	70	65	72	67	64	64	64	64	62
4	85	74	66	60	83	73	66	60	70	64	59	67	62	57	65	60	56	56	56	56	54
5	79	67	59	53	77	66	59	53	64	57	52	62	56	51	59	54	50	50	50	50	48
6	74	62	53	47	72	60	53	47	58	52	46	56	50	46	55	49	45	45	45	45	43
7	69	56	48	43	67	55	48	42	54	47	42	52	46	41	50	45	41	41	41	41	39
8	65	52	44	39	63	51	44	39	50	43	38	48	42	38	47	41	37	37	37	37	35
9	61	48	41	35	59	47	40	35	46	40	35	45	39	35	44	38	34	34	34	34	32
10	57	45	37	33	56	44	37	32	43	37	32	42	36	32	41	35	32	32	32	32	30

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

	0°	45°	90°
0°	39173	39173	39173
5°	39093	35690	33189
10°	39535	30077	26630
15°	40307	25735	21871
20°	41439	21770	17702
25°	42872	18028	15521
30°	44354	15539	14430
35°	45277	14170	13759
40°	44502	12808	13065
45°	40940	11582	12108
50°	34541	10241	11377
55°	26246	8979	10138
60°	18393	7709	9722
65°	12372	6650	9539
70°	8449	6253	10037
75°	5863	6468	10769
80°	4036	7197	11163
85°	2361	9085	11865



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2085.1	5.7
10°-20°	4905.1	13.4
20°-30°	6148.5	16.8
30°-40°	6524.2	17.8
40°-50°	5899.0	16.1
50°-60°	4277.1	11.7
60°-70°	2684.1	7.3
70°-80°	1776.2	4.9
80°-90°	1023.3	2.8
90°-100°	495.8	1.4
100°-110°	342.2	0.9
110°-120°	211.2	0.6
120°-130°	102.2	0.3
130°-140°	47.0	0.1
140°-150°	25.7	0.1
150°-160°	11.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
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0°-30°	13138.7	35.9
0°-40°	19663.0	53.8
0°-60°	29839.1	81.6
0°-90°	35322.7	96.6
90°-120°	1049.1	2.9
90°-150°	1224.1	3.3
90°-180°	1235.0	3.4
0°-180°	36558.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	24770	24770	24770	24770	24770	
5°	24720	24086	22672	21620	21076	###
15°	24909	20303	16125	14340	13690	7064
25°	25074	15698	10797	9583	9279	11584
35°	24176	10436	7836	7591	7589	15029
45°	19112	6610	5679	5816	5915	14559
55°	10118	4097	3706	4020	4163	9142
65°	3619	2376	2145	2749	3055	3766
75°	1117	1280	1440	2237	2372	1246
85°	196	530	1054	1466	1346	235
90°	0	222	611	860	868	13
95°	9	156	538	731	764	8
105°	19	104	391	519	533	19
115°	26	73	264	330	337	25
125°	28	38	134	170	167	25
135°	24	28	59	92	92	19
145°	28	31	35	54	52	17
155°	28	35	38	40	35	9
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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CATALOG NUMBER: OHBL-36HE-N-UNV-L750-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	24770.0	24770.0	24770.0	24770.0	24770.0
2.5°	24718.1	24576.7	24135.8	23867.1	23640.8
5°	24720.5	24086.3	22671.8	21620.4	21075.8
7.5°	24755.8	23346.1	20797.6	19262.9	18664.1
10°	24810.1	22429.0	19048.4	17412.3	16853.6
12.5°	24850.1	21396.4	17509.0	15828.1	15215.1
15°	24909.1	20302.6	16125.1	14340.5	13689.9
17.5°	24963.3	19272.4	14757.8	12893.0	12169.3
20°	25017.5	18162.0	13390.5	11469.1	10872.7
22.5°	25069.4	16990.3	12056.1	10363.5	9955.6
25°	25074.1	15698.4	10797.2	9583.1	9279.0
27.5°	25012.8	14359.4	9776.5	8930.1	8741.5
30°	24906.7	13060.4	8984.3	8458.6	8324.2
32.5°	24642.7	11735.5	8371.4	8003.6	7925.8
35°	24175.9	10436.5	7836.2	7591.1	7588.7
37.5°	23440.4	9283.7	7256.3	7213.9	7265.7
40°	22353.6	8274.7	6707.0	6820.2	6820.2
42.5°	20903.7	7397.8	6209.6	6325.1	6294.5
45°	19112.1	6610.4	5679.2	5815.9	5914.9
47.5°	17035.1	5917.3	5136.9	5401.0	5537.7
50°	14776.7	5257.2	4641.9	4979.0	5134.6
52.5°	12409.8	4646.6	4158.6	4545.2	4670.2
55°	10118.3	4097.3	3706.0	4019.5	4163.3
57.5°	8043.7	3573.9	3262.7	3559.8	3856.8
60°	6259.1	3123.7	2845.5	3269.8	3566.9
62.5°	4781.0	2722.9	2454.1	2998.7	3295.8
65°	3618.7	2376.3	2145.3	2748.8	3055.3
67.5°	2727.6	2076.9	1904.8	2567.3	2866.7
70°	2048.6	1787.0	1711.5	2454.1	2722.9
72.5°	1513.5	1520.6	1558.3	2355.1	2560.2
75°	1117.4	1280.1	1440.4	2237.2	2371.6
77.5°	799.2	1060.9	1334.3	2095.8	2142.9
80°	554.0	865.2	1223.5	1909.6	1869.5
82.5°	346.5	693.1	1124.5	1704.5	1593.7
85°	195.7	530.4	1053.8	1466.3	1346.1
87.5°	87.2	396.1	921.8	1143.4	1067.9
90°	0.0	221.6	610.6	860.5	867.6
92.5°	4.7	183.9	563.4	787.4	811.0
95°	9.4	155.6	537.5	730.8	763.8
97.5°	11.8	136.7	504.5	679.0	707.2
100°	14.1	122.6	464.4	624.7	648.3
102.5°	16.5	113.2	426.7	568.2	587.0
105°	18.9	103.7	391.3	518.6	532.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	23.6	80.2	294.7	372.5	384.3
115°	25.9	73.1	264.0	330.0	337.1
117.5°	28.3	63.7	231.0	290.0	292.3
120°	28.3	56.6	198.0	247.5	247.5
122.5°	28.3	47.1	165.0	205.1	202.7
125°	28.3	37.7	134.4	169.7	167.4
127.5°	25.9	30.6	108.4	141.4	139.1
130°	25.9	30.6	87.2	120.2	120.2
132.5°	23.6	28.3	70.7	103.7	103.7
135°	23.6	28.3	58.9	91.9	91.9
137.5°	23.6	30.6	49.5	80.2	80.2
140°	23.6	28.3	42.4	70.7	70.7
142.5°	25.9	28.3	37.7	61.3	61.3
145°	28.3	30.6	35.4	54.2	51.9
147.5°	28.3	33.0	35.4	47.1	44.8
150°	28.3	35.4	35.4	42.4	40.1
152.5°	28.3	35.4	35.4	40.1	37.7
155°	28.3	35.4	37.7	40.1	35.4
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°	18.9	96.7	358.3	464.4	480.9
110°	21.2	87.2	327.7	414.9	431.4



(END OF REPORT)