

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: P830349

Luminaire Tested: **OHBL-36HE-N-UNV-L840-CD**

Issue Date: 5/3/2024



**Test Information**

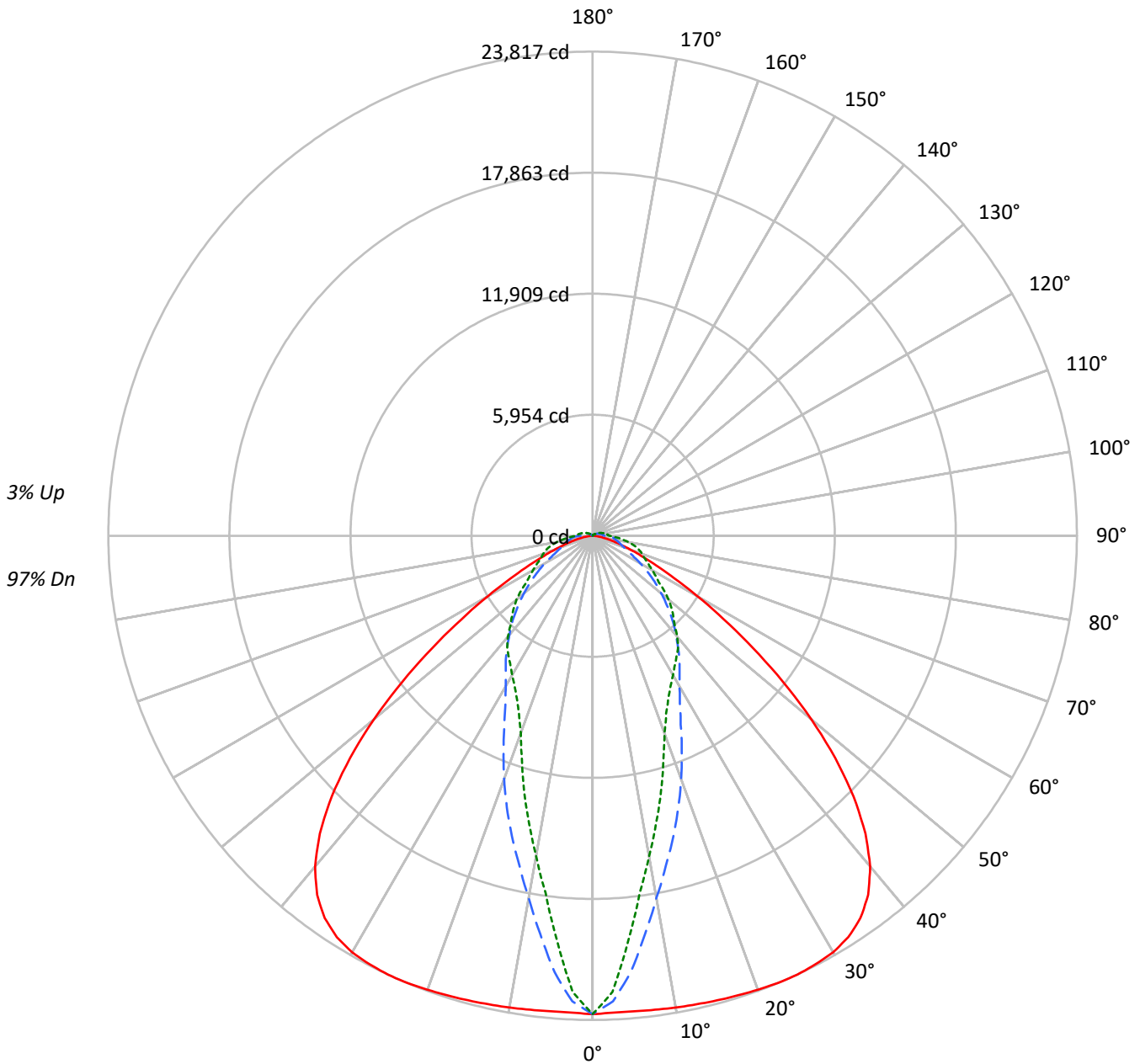
Test Method: LM-79-08  
Report Number: P830349  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-36HE-N-UNV-L840-CD  
Description: 36000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND NARROW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 34725.0 lumens  
Efficiency: N/A  
Efficacy: 163.8 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									
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°	37209	37209	37209
5°	37133	33901	31525
10°	37552	28569	25295
15°	38286	24444	20775
20°	39361	20678	16814
25°	40722	17124	14743
30°	42130	14760	13706
35°	43007	13459	13069
40°	42271	12165	12410
45°	38887	11001	11500
50°	32809	9727	10807
55°	24930	8528	9630
60°	17471	7323	9235
65°	11752	6316	9060
70°	8026	5940	9534
75°	5569	6144	10229
80°	3834	6837	10603
85°	2243	8629	11270



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1980.6	5.7
10°-20°	4659.2	13.4
20°-30°	5840.2	16.8
30°-40°	6197.1	17.8
40°-50°	5603.2	16.1
50°-60°	4062.7	11.7
60°-70°	2549.5	7.3
70°-80°	1687.2	4.9
80°-90°	972.0	2.8
90°-100°	470.9	1.4
100°-110°	325.0	0.9
110°-120°	200.6	0.6
120°-130°	97.1	0.3
130°-140°	44.7	0.1
140°-150°	24.4	0.1
150°-160°	10.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
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0°-30°	12480.0	35.9
0°-40°	18677.1	53.8
0°-60°	28343.0	81.6
0°-90°	33551.7	96.6
90°-120°	996.5	2.9
90°-150°	1162.7	3.3
90°-180°	1173.0	3.4
0°-180°	34725.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	23528	23528	23528	23528	23528	
5°	23481	22879	21535	20536	20019	###
15°	23660	19285	15317	13622	13004	6710
25°	23817	14911	10256	9103	8814	11003
35°	22964	9913	7443	7210	7208	14275
45°	18154	6279	5394	5524	5618	13829
55°	9611	3892	3520	3818	3955	8684
65°	3437	2257	2038	2611	2902	3577
75°	1061	1216	1368	2125	2253	1183
85°	186	504	1001	1393	1279	223
90°	0	210	580	817	824	12
95°	9	148	511	694	726	8
105°	18	98	372	493	506	18
115°	25	69	251	314	320	24
125°	27	36	128	161	159	23
135°	22	27	56	87	87	18
145°	27	29	34	52	49	16
155°	27	34	36	38	34	8
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°	23528.0	23528.0	23528.0	23528.0	23528.0
2.5°	23478.8	23344.4	22925.7	22670.4	22455.4
5°	23481.0	22878.7	21535.1	20536.4	20019.1
7.5°	23514.6	22175.5	19754.9	18297.1	17728.3
10°	23566.1	21304.4	18093.3	16539.3	16008.6
12.5°	23604.2	20323.6	16631.1	15034.5	14452.3
15°	23660.2	19284.6	15316.6	13621.5	13003.5
17.5°	23711.7	18306.1	14017.8	12246.6	11559.1
20°	23763.2	17251.4	12719.1	10894.1	10327.5
22.5°	23812.4	16138.4	11451.6	9843.8	9456.4
25°	23816.9	14911.3	10255.9	9102.6	8813.8
27.5°	23758.7	13639.4	9286.3	8482.4	8303.2
30°	23657.9	12405.6	8533.9	8034.5	7906.9
32.5°	23407.1	11147.1	7951.7	7602.3	7528.4
35°	22963.7	9913.3	7443.3	7210.5	7208.2
37.5°	22265.1	8818.3	6892.5	6852.2	6901.4
40°	21232.8	7859.8	6370.7	6478.2	6478.2
42.5°	19855.6	7026.8	5898.2	6008.0	5978.9
45°	18153.8	6278.9	5394.4	5524.3	5618.3
47.5°	16181.0	5620.6	4879.4	5130.2	5260.1
50°	14035.8	4993.6	4409.1	4729.3	4877.1
52.5°	11787.5	4413.6	3950.1	4317.3	4436.0
55°	9611.0	3891.9	3520.1	3818.0	3954.6
57.5°	7640.4	3394.7	3099.2	3381.3	3663.5
60°	5945.3	2967.0	2702.8	3105.9	3388.0
62.5°	4541.2	2586.4	2331.1	2848.4	3130.5
65°	3437.3	2257.2	2037.7	2611.0	2902.1
67.5°	2590.8	1972.8	1809.3	2438.6	2723.0
70°	1945.9	1697.4	1625.7	2331.1	2586.4
72.5°	1437.6	1444.3	1480.2	2237.0	2431.9
75°	1061.4	1215.9	1368.2	2125.1	2252.7
77.5°	759.1	1007.7	1267.4	1990.7	2035.5
80°	526.2	821.8	1162.2	1813.8	1775.7
82.5°	329.2	658.3	1068.1	1619.0	1513.7
85°	185.9	503.8	1001.0	1392.8	1278.6
87.5°	82.9	376.2	875.6	1086.0	1014.4
90°	0.0	210.5	580.0	817.3	824.1
92.5°	4.5	174.7	535.2	747.9	770.3
95°	9.0	147.8	510.6	694.2	725.5
97.5°	11.2	129.9	479.2	644.9	671.8
100°	13.4	116.4	441.1	593.4	615.8
102.5°	15.7	107.5	405.3	539.7	557.6
105°	17.9	98.5	371.7	492.6	506.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	22.4	76.1	279.9	353.8	365.0
115°	24.6	69.4	250.8	313.5	320.2
117.5°	26.9	60.5	219.4	275.4	277.7
120°	26.9	53.7	188.1	235.1	235.1
122.5°	26.9	44.8	156.7	194.8	192.6
125°	26.9	35.8	127.6	161.2	159.0
127.5°	24.6	29.1	103.0	134.4	132.1
130°	24.6	29.1	82.9	114.2	114.2
132.5°	22.4	26.9	67.2	98.5	98.5
135°	22.4	26.9	56.0	87.3	87.3
137.5°	22.4	29.1	47.0	76.1	76.1
140°	22.4	26.9	40.3	67.2	67.2
142.5°	24.6	26.9	35.8	58.2	58.2
145°	26.9	29.1	33.6	51.5	49.3
147.5°	26.9	31.3	33.6	44.8	42.5
150°	26.9	33.6	33.6	40.3	38.1
152.5°	26.9	33.6	33.6	38.1	35.8
155°	26.9	33.6	35.8	38.1	33.6
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°	17.9	91.8	340.4	441.1	456.8
110°	20.2	82.9	311.3	394.1	409.8



(END OF REPORT)