

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: P830356

Luminaire Tested: **OHBL-36HE-NL-UNV-L735-CD**

Issue Date: 5/3/2024

**Test Information**

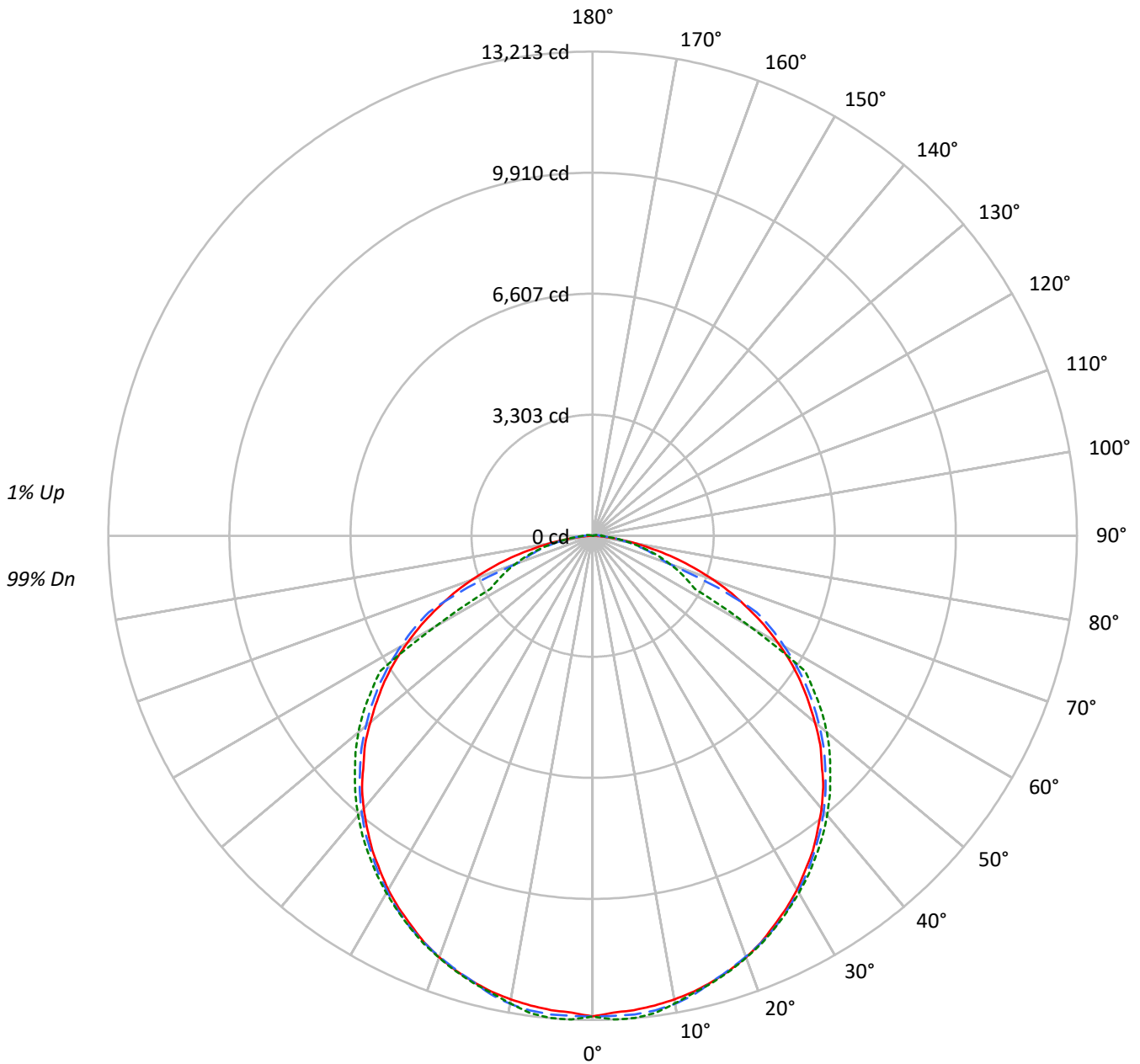
Test Method: LM-79-08  
Report Number: P830356  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P472951)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-36HE-NL-UNV-L735-CD  
Description: 36000 LUMEN OHBL HE LED LUMINAIRE WITH 70CRI, 3500K LEDS AND NO LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 36825.0 lumens  
Efficiency: N/A  
Efficacy: 173.7 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39  
Luminous Opening: Rectangular (W 1.8' x L: 3.78' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 212  
Input Voltage (V): NR  
Input Current (Ain): 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: P830356  
CATALOG NUMBER: OHBL-36HE-NL-UNV-L735-CD

### Luminous Intensity Polar Plot





TEST NUMBER: P830356

CATALOG NUMBER: OHBL-36HE-NL-UNV-L735-CD

**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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102					99															
1	109	105	100	97	106	102	99	95	98	95	92	94	91	89	90	88	86					84															
2	99	92	85	79	97	90	84	78	86	81	76	83	78	75	80	76	73					71															
3	91	81	73	66	88	79	72	66	76	70	64	73	68	63	70	66	62					60															
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53					51															
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46					44															
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	45	41					39															
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36					34															
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32					30															
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29					27															
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26					25															

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

	0°	45°	90°
0°	20743	20743	20743
5°	20628	20815	20972
10°	20634	20830	20804
15°	20630	20627	20672
20°	20602	20571	20622
25°	20461	20566	20582
30°	20367	20472	20552
35°	20235	20346	20537
40°	20060	20250	20550
45°	19771	20069	20507
50°	19473	19870	20526
55°	19100	19595	20300
60°	18461	19116	15804
65°	17466	18481	10636
70°	16154	9811	10322
75°	14090	9323	9858
80°	10836	8553	9034
85°	5469	8644	8851



TEST NUMBER: P830356

CATALOG NUMBER: OHBL-36HE-NL-UNV-L735-CD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1246.1	3.4
10°-20°	3567.9	9.7
20°-30°	5428.8	14.7
30°-40°	6600.7	17.9
40°-50°	6940.3	18.8
50°-60°	6337.3	17.2
60°-70°	4062.5	11.0
70°-80°	1919.1	5.2
80°-90°	532.2	1.4
90°-100°	140.9	0.4
100°-110°	38.6	0.1
110°-120°	10.7	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	10242.7	27.8
0°-40°	16843.4	45.7
0°-60°	30121.0	81.8
0°-90°	36634.8	99.5
90°-120°	190.2	0.5
90°-150°	190.2	0.5
90°-180°	190.0	0.5
0°-180°	36825.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	13116	13116	13116	13116	13116	
5°	12994	13045	13112	13183	13210	###
15°	12600	12695	12598	12617	12626	3557
25°	11726	11744	11786	11804	11795	5411
35°	10481	10419	10538	10667	10637	6550
45°	8840	8824	8973	9185	9169	6833
55°	6927	6874	7107	7344	7362	6178
65°	4667	4667	4939	2833	2842	4627
75°	2306	2350	1526	1606	1613	2431
85°	301	382	476	516	488	445
90°	0	129	212	251	246	13
95°	7	67	152	205	205	4
105°	12	25	37	37	35	12
115°	12	16	23	16	2	8
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P830356

CATALOG NUMBER: OHBL-36HE-NL-UNV-L735-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	13116.1	13116.1	13116.1	13116.1	<i>13116.1</i>
2.5°	<i>13024.0</i>	<i>13067.9</i>	<i>13116.1</i>	<i>13178.3</i>	<i>13212.6</i>
5°	12994.0	13044.7	13111.5	13182.9	<i>13210.4</i>
7.5°	12929.7	13000.9	13065.4	13116.1	<i>13132.2</i>
10°	12849.1	12934.3	12971.1	12966.5	<i>12955.1</i>
12.5°	12740.9	12830.8	12819.3	12766.2	<i>12775.5</i>
15°	12600.5	12694.8	12598.3	12616.6	<i>12625.9</i>
17.5°	12434.8	12526.9	12414.1	12450.9	<i>12453.4</i>
20°	12241.6	12310.6	12223.1	12253.1	<i>12253.1</i>
22.5°	12009.2	12057.4	12020.6	12041.3	<i>12046.0</i>
25°	11726.0	11744.3	11785.7	11804.2	<i>11795.0</i>
27.5°	11454.6	11431.4	11512.1	11555.7	<i>11532.6</i>
30°	11152.9	11116.1	11210.4	11281.8	<i>11254.3</i>
32.5°	10807.7	10784.8	10892.9	10978.0	<i>10961.9</i>
35°	10480.9	10418.8	10538.4	10667.3	<i>10637.3</i>
37.5°	10094.2	10057.4	10193.1	10329.1	<i>10313.0</i>
40°	9716.8	9654.6	9808.9	9969.9	<i>9953.9</i>
42.5°	9311.8	9238.0	9406.1	9599.6	<i>9581.1</i>
45°	8839.8	8823.8	8973.4	9185.1	<i>9169.0</i>
47.5°	8421.2	8340.6	8549.9	8754.8	<i>8773.3</i>
50°	7914.7	7884.9	8076.0	8324.5	<i>8342.8</i>
52.5°	7420.0	7399.3	7599.4	7850.3	<i>7882.5</i>
55°	6927.3	6874.5	7106.9	7344.0	<i>7362.5</i>
57.5°	6400.5	6345.2	6582.3	6840.1	<i>6879.1</i>
60°	5836.5	5783.6	6043.6	6283.1	<i>4996.5</i>
62.5°	5272.6	5235.8	5507.5	3901.0	<i>3144.0</i>
65°	4667.4	4667.4	4938.8	2833.1	<i>2842.3</i>
67.5°	4101.3	4064.5	3682.5	2545.3	<i>2545.3</i>
70°	3493.6	3507.5	2121.8	2230.2	<i>2232.4</i>
72.5°	2883.7	2934.4	1832.1	1919.3	<i>1924.0</i>
75°	2306.0	2349.9	1525.8	1606.5	<i>1613.3</i>
77.5°	1693.9	1302.6	1226.6	1289.0	<i>1291.2</i>
80°	1189.8	821.6	939.1	998.8	<i>992.0</i>
82.5°	694.9	575.3	688.1	732.0	<i>729.5</i>
85°	301.4	382.1	476.4	515.6	<i>487.8</i>
87.5°	96.5	237.1	296.8	319.9	<i>317.5</i>
90°	0.0	128.9	211.7	250.7	<i>246.3</i>
92.5°	0.0	101.1	184.2	230.3	<i>232.5</i>
95°	6.8	66.8	152.0	204.9	<i>204.9</i>
97.5°	4.6	48.2	108.2	161.1	<i>165.7</i>
100°	4.6	39.0	71.4	115.0	<i>117.4</i>
102.5°	11.5	32.2	43.6	73.6	<i>76.0</i>
105°	11.5	25.3	36.8	36.8	<i>34.6</i>



TEST NUMBER: P830356

CATALOG NUMBER: OHBL-36HE-NL-UNV-L735-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	13.9	18.5	25.3	18.5	2.2
115°	11.5	16.1	22.9	16.1	2.2
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
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°	11.5	22.9	32.2	20.7	6.8
110°	13.9	20.7	27.5	18.5	2.2



(END OF REPORT)