

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: P830320

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

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P830320  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-200-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-36HE-MCL-UNV-L735-CD  
Description: 36000 LUMEN OHBL HE LED LUMINAIRE WITH 70CRI, 3500K LEDS AND MEDIUM CLEAR LENS  
Light Source: -  
Ballast/Driver: -

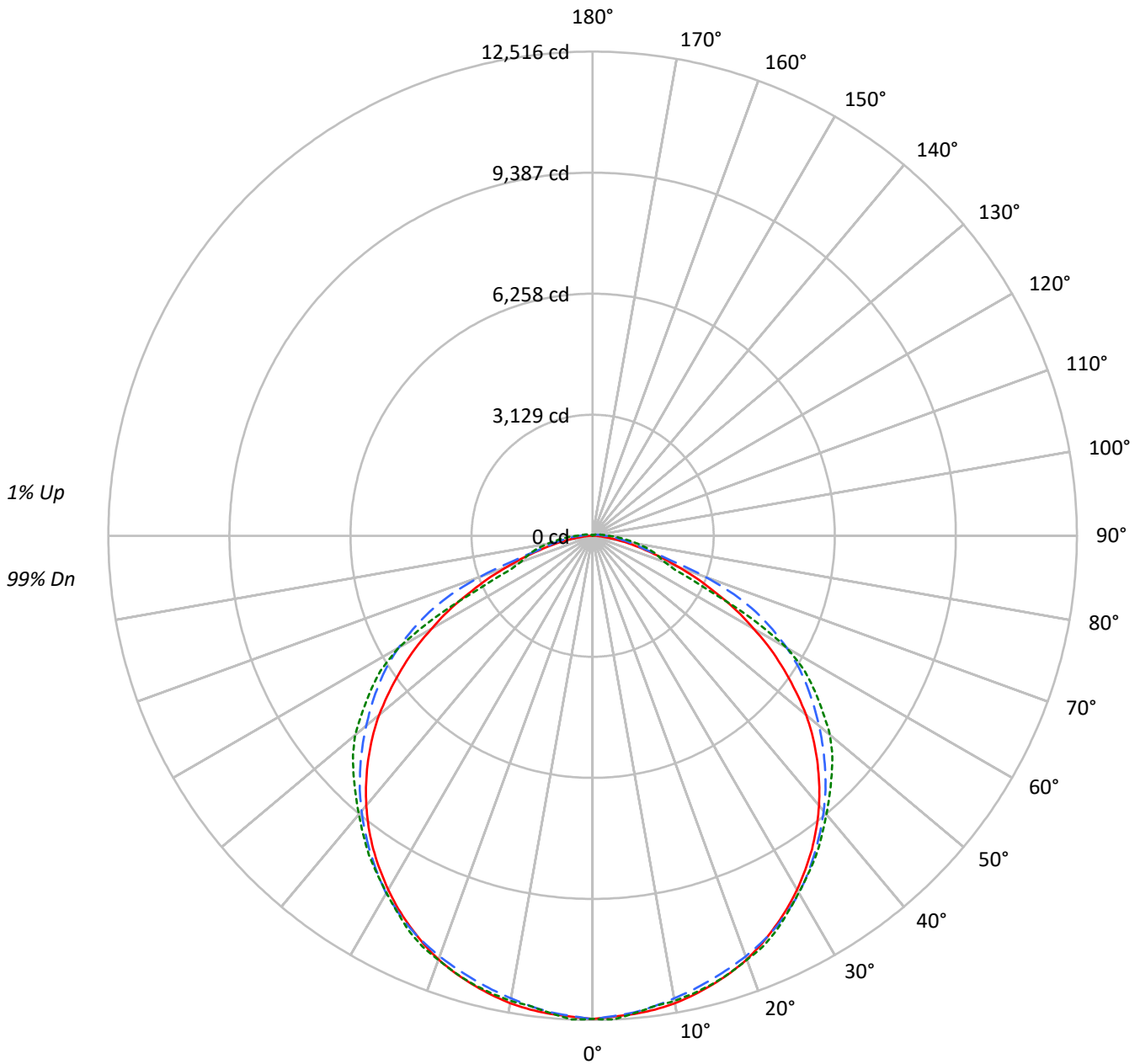
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 35304.0 lumens  
Efficiency: N/A  
Efficacy: 166.5 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39  
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

TEST NUMBER: P830320

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

### Luminous Intensity Polar Plot





TEST NUMBER: P830320

CATALOG NUMBER: OHBL-36HE-MCL-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	110	110	110	106	106	106	101	101	101				99																
1	109	104	100	96	106	102	98	95	97	94	91	93	91	88	90	87	86				83																
2	99	91	84	79	96	89	83	78	85	80	76	82	78	74	79	75	72				70																
3	91	80	72	66	88	79	71	65	75	69	64	72	67	63	70	65	61				59																
4	83	71	62	56	81	70	62	55	67	60	54	65	59	54	62	57	53				51																
5	76	64	55	48	74	62	54	48	60	53	47	58	52	46	56	50	46				44																
6	70	57	48	42	68	56	48	42	54	47	41	52	46	41	51	45	40				38																
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36				34																
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	42	36	32				30																
9	57	43	35	30	55	43	35	29	41	34	29	40	34	29	39	33	29				27																
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	36	30	26				24																

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

	0°	45°	90°
0°	19754	19754	19754
5°	19624	19467	19507
10°	19552	19172	19291
15°	19428	18951	19162
20°	19304	18812	18992
25°	19071	18672	18824
30°	18818	18452	18468
35°	18515	18102	18271
40°	18121	17741	18004
45°	17576	17322	17886
50°	16836	16846	17744
55°	15661	16378	17082
60°	14122	15693	15792
65°	12115	14421	10008
70°	9758	11257	7256
75°	7316	6683	7364
80°	5092	5557	7031
85°	2898	5091	6591



TEST NUMBER: P830320

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

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1177.7	3.3
10°-20°	3377.2	9.6
20°-30°	5158.1	14.6
30°-40°	6258.5	17.7
40°-50°	6559.5	18.6
50°-60°	5943.9	16.8
60°-70°	3985.2	11.3
70°-80°	1789.5	5.1
80°-90°	649.4	1.8
90°-100°	195.5	0.6
100°-110°	92.2	0.3
110°-120°	46.2	0.1
120°-130°	25.5	0.1
130°-140°	17.5	0.0
140°-150°	11.8	0.0
150°-160°	8.8	0.0
160°-170°	5.6	0.0
170°-180°	1.8	0.0
0°-30°	9713.0	27.5
0°-40°	15971.6	45.2
0°-60°	28475.0	80.7
0°-90°	34899.1	98.9
90°-120°	333.9	0.9
90°-150°	388.8	1.1
90°-180°	405.0	1.1
0°-180°	35304.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	12491	12491	12491	12491	12491	
5°	12409	12453	12366	12404	12388	###
15°	12007	11960	11875	11980	11994	3390
25°	11154	11105	11183	11286	11253	5141
35°	9886	9910	10011	10117	10078	6179
45°	8205	8338	8494	8710	8738	6321
55°	6038	6328	6760	7031	7015	5389
65°	3544	4098	4652	3926	3206	3531
75°	1394	2023	1488	1522	1622	1524
85°	240	460	591	713	748	293
90°	2	154	305	383	401	14
95°	2	96	210	255	262	2
105°	7	42	103	125	130	8
115°	14	22	52	67	70	13
125°	13	14	32	38	40	13
135°	16	18	20	29	31	13
145°	16	18	18	20	22	11
155°	18	20	20	20	18	8
165°	20	20	20	20	20	6
175°	20	20	18	16	16	2
180°	18	18	18	18	18	



TEST NUMBER: P830320

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

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	12490.6	12490.6	12490.6	12490.6	12490.6
2.5°	12440.0	12492.4	12427.4	12497.8	12515.9
5°	12409.3	12452.7	12366.0	12403.9	12387.6
7.5°	12353.3	12367.8	12264.8	12295.5	12263.0
10°	12270.2	12263.0	12142.0	12201.6	12208.8
12.5°	12147.4	12125.8	12017.4	12107.7	12109.5
15°	12006.6	11959.6	11874.7	11979.5	11993.9
17.5°	11844.0	11782.6	11726.6	11862.1	11840.4
20°	11654.4	11582.1	11571.3	11719.4	11665.2
22.5°	11419.6	11363.6	11388.9	11529.8	11495.5
25°	11154.1	11105.4	11183.0	11286.0	11253.4
27.5°	10874.2	10845.3	10933.8	11013.2	10950.0
30°	10567.2	10550.9	10668.3	10733.3	10653.8
32.5°	10233.0	10238.5	10350.4	10438.9	10364.9
35°	9886.3	9909.8	10010.9	10117.4	10077.7
37.5°	9505.2	9557.6	9658.7	9779.7	9738.2
40°	9102.5	9178.3	9290.3	9436.6	9398.6
42.5°	8667.2	8762.9	8907.4	9069.9	9066.3
45°	8204.8	8338.5	8493.8	8710.5	8737.6
47.5°	7724.4	7874.3	8071.2	8360.2	8401.7
50°	7202.5	7390.3	7635.9	7982.7	8008.0
52.5°	6620.9	6877.4	7202.5	7534.8	7504.1
55°	6037.6	6328.4	6760.0	7030.9	7014.7
57.5°	5456.1	5782.9	6306.7	6499.9	6498.1
60°	4805.9	5219.5	5792.0	5938.3	5793.8
62.5°	4204.5	4648.8	5242.9	5136.4	4641.5
65°	3543.5	4097.9	4652.4	3926.3	3205.7
67.5°	2956.5	3534.4	3951.6	2689.2	2302.7
70°	2365.9	3003.4	3081.1	1995.7	1968.6
72.5°	1842.2	2521.2	2125.7	1708.5	1795.2
75°	1394.3	2022.8	1488.2	1522.5	1621.8
77.5°	1016.8	1553.2	1157.7	1334.7	1415.9
80°	698.9	1099.9	944.6	1121.6	1177.5
82.5°	438.9	726.0	756.7	903.0	960.8
85°	240.2	460.5	590.6	713.4	747.7
87.5°	99.3	278.1	451.5	550.8	579.7
90°	1.8	153.5	305.2	382.9	400.9
92.5°	1.8	117.4	249.2	308.8	321.5
95°	1.8	95.7	209.5	254.7	261.9
97.5°	3.6	75.9	175.2	211.3	218.5
100°	5.4	63.2	146.3	177.0	182.4
102.5°	7.2	50.6	122.8	148.1	153.5
105°	7.2	41.5	102.9	124.6	130.0



TEST NUMBER: P830320

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

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	12.6	25.3	61.4	77.7	81.3
115°	14.4	21.7	52.4	66.8	70.4
117.5°	14.4	18.1	45.2	56.0	59.6
120°	14.4	16.3	39.7	48.8	50.6
122.5°	14.4	14.4	34.3	43.3	45.2
125°	12.6	14.4	32.5	37.9	39.7
127.5°	14.4	14.4	28.9	34.3	36.1
130°	14.4	16.3	25.3	32.5	32.5
132.5°	16.3	18.1	23.5	30.7	30.7
135°	16.3	18.1	19.9	28.9	30.7
137.5°	18.1	18.1	18.1	27.1	28.9
140°	18.1	18.1	16.3	23.5	25.3
142.5°	16.3	18.1	16.3	21.7	23.5
145°	16.3	18.1	18.1	19.9	21.7
147.5°	18.1	18.1	18.1	18.1	19.9
150°	18.1	18.1	18.1	18.1	18.1
152.5°	18.1	18.1	18.1	18.1	18.1
155°	18.1	19.9	19.9	19.9	18.1
157.5°	18.1	19.9	19.9	19.9	19.9
160°	18.1	19.9	19.9	19.9	19.9
162.5°	19.9	19.9	19.9	19.9	19.9
165°	19.9	19.9	19.9	19.9	19.9
167.5°	19.9	21.7	19.9	19.9	19.9
170°	19.9	19.9	19.9	18.1	18.1
172.5°	19.9	19.9	19.9	18.1	18.1
175°	19.9	19.9	18.1	16.3	16.3
177.5°	21.7	19.9	18.1	16.3	14.4
180°	18.1	18.1	18.1	18.1	18.1



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	9.0	34.3	88.5	106.6	110.2
110°	10.8	28.9	74.0	90.3	93.9



(END OF REPORT)