

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: P830176

Luminaire Tested: **OHBL-30HE-MCL-UNV-L735-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P830176  
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-30HE-MCL-UNV-L735-CD  
Description: 30000 LUMEN OHBL HE LED LUMINAIRE WITH 70CRI, 3500K LEDS AND MEDIUM CLEAR LENS  
Light Source: -  
Ballast/Driver: -

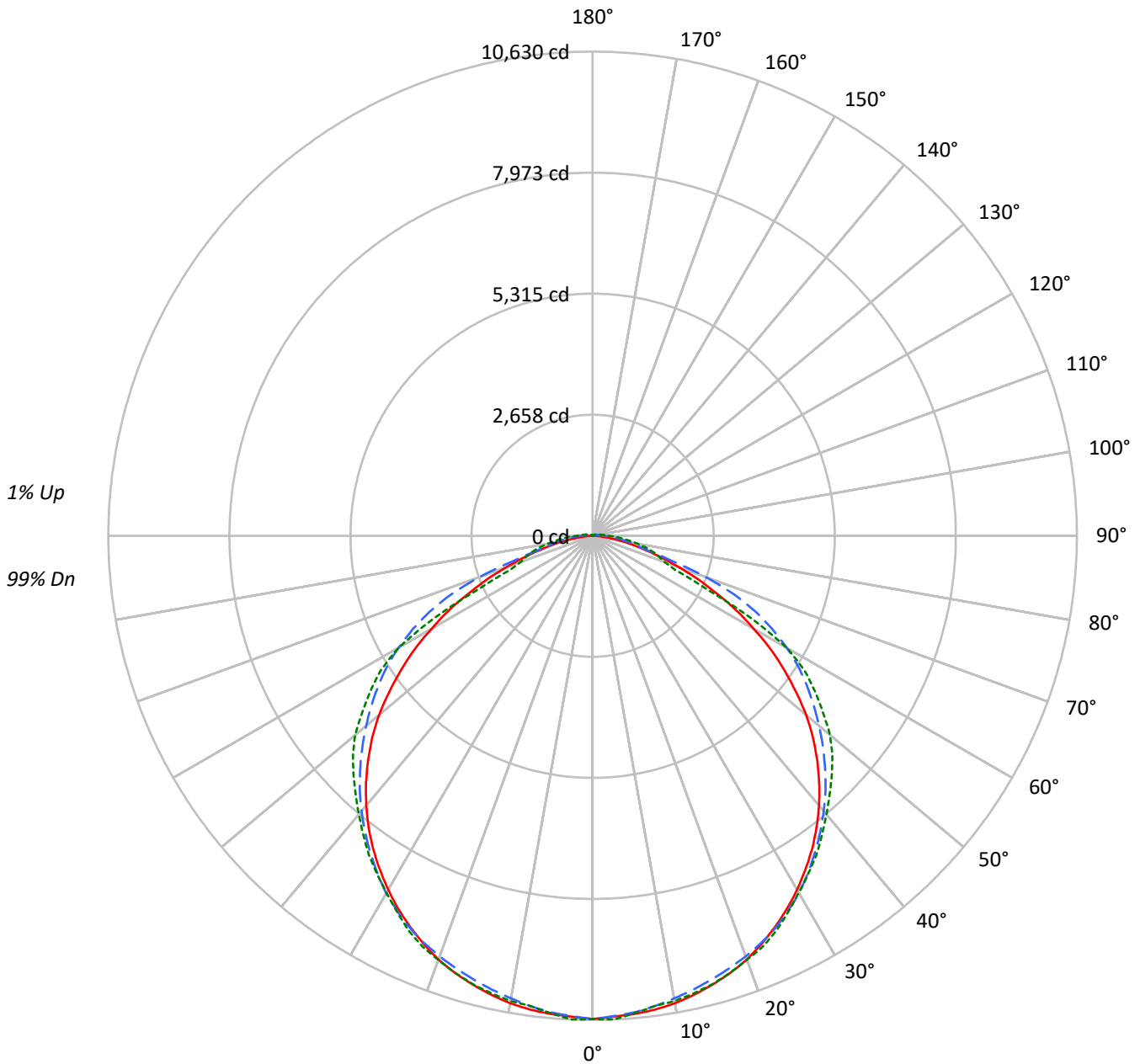
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29986.0 lumens  
Efficiency: N/A  
Efficacy: 183.1 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): 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				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	119	119	119	119	116	116	116	116	110	110	110	106	106	106	101	101	101	99				99
1	109	104	100	96	106	102	98	95	97	94	91	93	91	88	90	87	86	83				83
2	99	91	84	79	96	89	83	78	85	80	76	82	78	74	79	75	72	70				70
3	91	80	72	66	88	79	71	65	75	69	64	72	67	63	70	65	61	59				59
4	83	71	62	56	81	70	62	55	67	60	54	65	59	54	62	57	53	51				51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	46	56	50	46	44				44
6	70	57	48	42	68	56	48	42	54	47	41	52	46	41	51	45	40	38				38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36	34				34
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	42	36	32	30				30
9	57	43	35	30	55	43	35	29	41	34	29	40	34	29	39	33	29	27				27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	36	30	26	24				24

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

	0°	45°	90°
0°	16778	16778	16778
5°	16668	16534	16569
10°	16607	16284	16385
15°	16502	16097	16275
20°	16396	15979	16131
25°	16199	15860	15988
30°	15983	15672	15686
35°	15726	15375	15519
40°	15392	15068	15292
45°	14928	14713	15191
50°	14300	14309	15071
55°	13302	13911	14509
60°	11995	13329	13413
65°	10290	12248	8501
70°	8288	9562	6163
75°	6214	5676	6255
80°	4326	4720	5972
85°	2461	4324	5598



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1000.3	3.3
10°-20°	2868.5	9.6
20°-30°	4381.1	14.6
30°-40°	5315.8	17.7
40°-50°	5571.4	18.6
50°-60°	5048.5	16.8
60°-70°	3384.9	11.3
70°-80°	1520.0	5.1
80°-90°	551.6	1.8
90°-100°	166.0	0.6
100°-110°	78.3	0.3
110°-120°	39.3	0.1
120°-130°	21.7	0.1
130°-140°	14.9	0.0
140°-150°	10.0	0.0
150°-160°	7.4	0.0
160°-170°	4.8	0.0
170°-180°	1.5	0.0
0°-30°	8249.9	27.5
0°-40°	13565.7	45.2
0°-60°	24185.7	80.7
0°-90°	29642.1	98.9
90°-120°	283.6	0.9
90°-150°	330.1	1.1
90°-180°	344.0	1.1
0°-180°	29986.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	10609	10609	10609	10609	10609	
5°	10540	10577	10503	10535	10522	###
15°	10198	10158	10086	10175	10187	2879
25°	9474	9432	9498	9586	9558	4367
35°	8397	8417	8503	8593	8560	5248
45°	6969	7082	7214	7398	7421	5368
55°	5128	5375	5742	5972	5958	4577
65°	3010	3481	3952	3335	2723	2999
75°	1184	1718	1264	1293	1378	1294
85°	204	391	502	606	635	249
90°	2	130	259	325	340	12
95°	2	81	178	216	222	2
105°	6	35	87	106	110	7
115°	12	18	44	57	60	11
125°	11	12	28	32	34	11
135°	14	15	17	24	26	11
145°	14	15	15	17	18	9
155°	15	17	17	17	15	7
165°	17	17	17	17	17	5
175°	17	17	15	14	14	2
180°	15	15	15	15	15	



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CATALOG NUMBER: OHBL-30HE-MCL-UNV-L735-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	10609.1	10609.1	10609.1	10609.1	10609.1
2.5°	10566.1	10610.6	10555.4	10615.2	10630.5
5°	10540.0	10576.9	10503.2	10535.4	10521.6
7.5°	10492.5	10504.8	10417.3	10443.4	10415.8
10°	10421.9	10415.8	10313.0	10363.6	10369.8
12.5°	10317.6	10299.2	10207.2	10283.9	10285.4
15°	10198.0	10158.1	10086.0	10175.0	10187.2
17.5°	10059.9	10007.7	9960.2	10075.2	10056.8
20°	9898.8	9837.5	9828.3	9954.1	9908.0
22.5°	9699.4	9651.9	9673.3	9793.0	9763.8
25°	9473.9	9432.5	9498.5	9585.9	9558.3
27.5°	9236.2	9211.6	9286.8	9354.3	9300.6
30°	8975.4	8961.6	9061.3	9116.5	9049.0
32.5°	8691.6	8696.2	8791.3	8866.5	8803.6
35°	8397.1	8417.0	8502.9	8593.4	8559.7
37.5°	8073.4	8117.9	8203.8	8306.6	8271.3
40°	7731.3	7795.7	7890.8	8015.1	7982.9
42.5°	7361.6	7442.9	7565.6	7703.7	7700.6
45°	6968.9	7082.4	7214.4	7398.4	7421.4
47.5°	6560.9	6688.2	6855.4	7100.8	7136.1
50°	6117.6	6277.1	6485.7	6780.2	6801.7
52.5°	5623.6	5841.4	6117.6	6399.8	6373.7
55°	5128.1	5375.1	5741.7	5971.8	5958.0
57.5°	4634.2	4911.8	5356.7	5520.8	5519.3
60°	4081.9	4433.2	4919.5	5043.8	4921.0
62.5°	3571.1	3948.5	4453.2	4362.7	3942.4
65°	3009.7	3480.6	3951.6	3334.9	2722.8
67.5°	2511.1	3002.0	3356.4	2284.1	1955.8
70°	2009.5	2551.0	2617.0	1695.1	1672.0
72.5°	1564.7	2141.4	1805.5	1451.2	1524.8
75°	1184.2	1718.1	1264.0	1293.2	1377.5
77.5°	863.6	1319.2	983.3	1133.6	1202.6
80°	593.7	934.2	802.3	952.6	1000.2
82.5°	372.8	616.7	642.7	767.0	816.1
85°	204.0	391.2	501.6	605.9	635.1
87.5°	84.4	236.2	383.5	467.9	492.4
90°	1.5	130.4	259.2	325.2	340.5
92.5°	1.5	99.7	211.7	262.3	273.1
95°	1.5	81.3	177.9	216.3	222.4
97.5°	3.1	64.4	148.8	179.5	185.6
100°	4.6	53.7	124.3	150.3	154.9
102.5°	6.1	43.0	104.3	125.8	130.4
105°	6.1	35.3	87.4	105.8	110.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	10.7	21.5	52.2	66.0	69.0
115°	12.3	18.4	44.5	56.8	59.8
117.5°	12.3	15.3	38.3	47.6	50.6
120°	12.3	13.8	33.7	41.4	43.0
122.5°	12.3	12.3	29.1	36.8	38.3
125°	10.7	12.3	27.6	32.2	33.7
127.5°	12.3	12.3	24.5	29.1	30.7
130°	12.3	13.8	21.5	27.6	27.6
132.5°	13.8	15.3	19.9	26.1	26.1
135°	13.8	15.3	16.9	24.5	26.1
137.5°	15.3	15.3	15.3	23.0	24.5
140°	15.3	15.3	13.8	19.9	21.5
142.5°	13.8	15.3	13.8	18.4	19.9
145°	13.8	15.3	15.3	16.9	18.4
147.5°	15.3	15.3	15.3	15.3	16.9
150°	15.3	15.3	15.3	15.3	15.3
152.5°	15.3	15.3	15.3	15.3	15.3
155°	15.3	16.9	16.9	16.9	15.3
157.5°	15.3	16.9	16.9	16.9	16.9
160°	15.3	16.9	16.9	16.9	16.9
162.5°	16.9	16.9	16.9	16.9	16.9
165°	16.9	16.9	16.9	16.9	16.9
167.5°	16.9	18.4	16.9	16.9	16.9
170°	16.9	16.9	16.9	15.3	15.3
172.5°	16.9	16.9	16.9	15.3	15.3
175°	16.9	16.9	15.3	13.8	13.8
177.5°	18.4	16.9	15.3	13.8	12.3
180°	15.3	15.3	15.3	15.3	15.3



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	7.7	29.1	75.2	90.5	93.6
110°	9.2	24.5	62.9	76.7	79.8



(END OF REPORT)