

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: P829675

Luminaire Tested: **OHBL-100SE-MCL-UNV-L830-CD**

Issue Date: 5/3/2024



**Test Information**

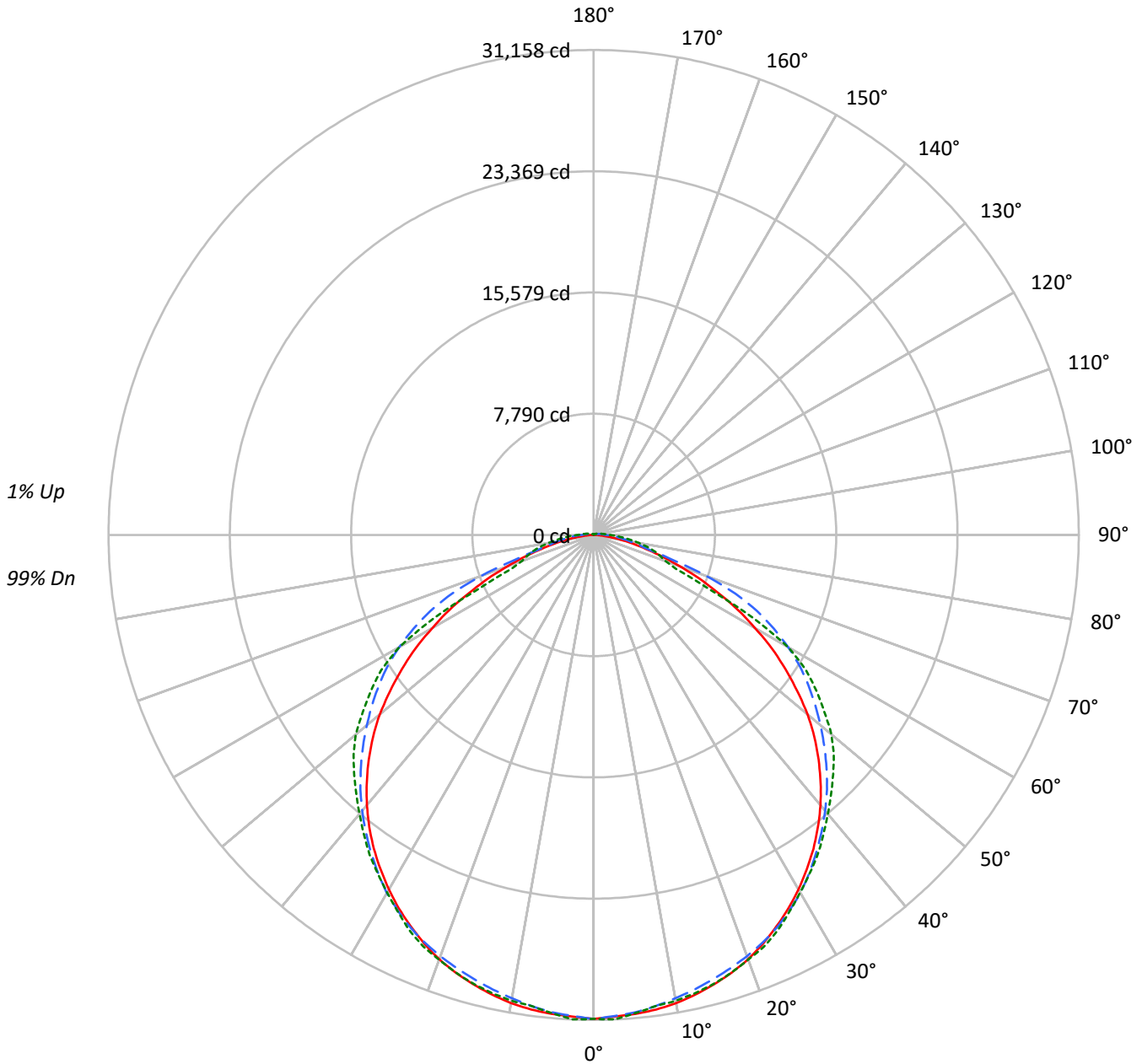
Test Method: LM-79-08  
Report Number: P829675  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-200-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-100SE-MCL-UNV-L830-CD  
Description: 100000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 3000K LEDS AND MEDIUM CLEAR LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 87888.1 lumens  
Efficiency: N/A  
Efficacy: 148.9 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): 590.1  
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: P829675  
CATALOG NUMBER: OHBL-100SE-MCL-UNV-L830-CD

### 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	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°	49176	49176	49176
5°	48854	48461	48563
10°	48675	47727	48024
15°	48366	47178	47702
20°	48057	46833	47280
25°	47478	46484	46861
30°	46847	45935	45975
35°	46093	45064	45486
40°	45112	44165	44821
45°	43754	43123	44526
50°	41913	41938	44173
55°	38987	40772	42524
60°	35157	39066	39314
65°	30159	35899	24915
70°	24292	28024	18064
75°	18213	16636	18334
80°	12677	13832	17504
85°	7215	12674	16408



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2932.0	3.3
10°-20°	8407.5	9.6
20°-30°	12840.8	14.6
30°-40°	15580.3	17.7
40°-50°	16329.7	18.6
50°-60°	14797.2	16.8
60°-70°	9920.9	11.3
70°-80°	4454.9	5.1
80°-90°	1616.6	1.8
90°-100°	486.6	0.6
100°-110°	229.6	0.3
110°-120°	115.1	0.1
120°-130°	63.5	0.1
130°-140°	43.6	0.0
140°-150°	29.4	0.0
150°-160°	21.8	0.0
160°-170°	14.0	0.0
170°-180°	4.5	0.0
0°-30°	24180.3	27.5
0°-40°	39760.6	45.2
0°-60°	70887.5	80.7
0°-90°	86880.0	98.9
90°-120°	831.3	0.9
90°-150°	967.8	1.1
90°-180°	1008.0	1.1
0°-180°	87888.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	31095	31095	31095	31095	31095	
5°	30892	31000	30785	30879	30839	###
15°	29890	29773	29562	29822	29858	8439
25°	27768	27646	27840	28096	28015	12799
35°	24612	24670	24922	25187	25088	15383
45°	20426	20758	21145	21685	21752	15735
55°	15030	15754	16829	17503	17463	13416
65°	8821	10202	11582	9774	7980	8789
75°	3471	5036	3705	3790	4038	3793
85°	598	1146	1470	1776	1861	730
90°	4	382	760	953	998	36
95°	4	238	522	634	652	6
105°	18	103	256	310	324	21
115°	36	54	130	166	175	33
125°	32	36	81	94	99	31
135°	40	45	50	72	76	32
145°	40	45	45	50	54	27
155°	45	50	50	50	45	21
165°	50	50	50	50	50	14
175°	50	50	45	40	40	5
180°	45	45	45	45	45	



TEST NUMBER: P829675

CATALOG NUMBER: OHBL-100SE-MCL-UNV-L830-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	31094.8	31094.8	31094.8	31094.8	<i>31094.8</i>
2.5°	<i>30969.0</i>	<i>31099.3</i>	<i>30937.5</i>	<i>31112.8</i>	<i>31157.8</i>
5°	30892.5	31000.4	30784.6	30879.0	<i>30838.6</i>
7.5°	30753.1	30789.1	30532.8	30609.3	<i>30528.3</i>
10°	30546.3	30528.3	30227.1	30375.5	<i>30393.5</i>
12.5°	30240.6	30186.6	29916.9	30141.7	<i>30146.2</i>
15°	29889.9	29773.0	29561.7	29822.5	<i>29858.4</i>
17.5°	29485.3	29332.4	29193.0	29530.2	<i>29476.3</i>
20°	29013.2	28833.3	28806.3	29175.0	<i>29040.1</i>
22.5°	28428.7	28289.3	28352.2	28702.9	<i>28617.5</i>
25°	27767.8	27646.4	27839.7	28096.0	<i>28015.0</i>
27.5°	27070.9	26998.9	27219.2	27417.1	<i>27259.7</i>
30°	26306.5	26266.1	26558.3	26720.2	<i>26522.3</i>
32.5°	25474.8	25488.2	25767.0	25987.3	<i>25803.0</i>
35°	24611.5	24670.0	24921.7	25187.0	<i>25088.1</i>
37.5°	23662.8	23793.2	24045.0	24346.2	<i>24242.8</i>
40°	22660.2	22849.0	23127.8	23492.0	<i>23397.6</i>
42.5°	21576.7	21815.0	22174.6	22579.3	<i>22570.3</i>
45°	20425.7	20758.4	21145.0	21684.6	<i>21752.0</i>
47.5°	19229.7	19602.9	20093.0	20812.3	<i>20915.7</i>
50°	17930.3	18397.9	19009.4	19872.6	<i>19935.6</i>
52.5°	16482.6	17121.1	17930.3	18757.6	<i>18681.2</i>
55°	15030.4	15754.2	16828.8	17503.2	<i>17462.8</i>
57.5°	13582.6	14396.4	15700.3	16181.4	<i>16176.9</i>
60°	11964.1	12993.7	14418.9	14783.1	<i>14423.4</i>
62.5°	10466.9	11572.9	13052.1	12786.8	<i>11554.9</i>
65°	8821.3	10201.6	11581.9	9774.5	<i>7980.5</i>
67.5°	7360.1	8798.8	9837.4	6694.7	<i>5732.5</i>
70°	5889.9	7477.0	7670.3	4968.2	<i>4900.7</i>
72.5°	4586.0	6276.5	5291.9	4253.3	<i>4469.1</i>
75°	3471.0	5035.6	3704.8	3790.2	<i>4037.5</i>
77.5°	2531.3	3866.6	2882.0	3322.6	<i>3524.9</i>
80°	1740.0	2738.1	2351.4	2792.1	<i>2931.4</i>
82.5°	1092.5	1807.4	1883.9	2248.0	<i>2391.9</i>
85°	598.0	1146.5	1470.2	1775.9	<i>1861.4</i>
87.5°	247.3	692.4	1124.0	1371.3	<i>1443.2</i>
90°	4.5	382.2	759.8	953.2	<i>998.1</i>
92.5°	4.5	292.2	620.5	768.8	<i>800.3</i>
95°	4.5	238.3	521.5	633.9	<i>651.9</i>
97.5°	9.0	188.8	436.1	526.0	<i>544.0</i>
100°	13.5	157.4	364.2	440.6	<i>454.1</i>
102.5°	18.0	125.9	305.7	368.7	<i>382.2</i>
105°	18.0	103.4	256.3	310.2	<i>323.7</i>



TEST NUMBER: P829675

CATALOG NUMBER: OHBL-100SE-MCL-UNV-L830-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	31.5	62.9	152.9	193.3	202.3
115°	36.0	54.0	130.4	166.4	175.3
117.5°	36.0	45.0	112.4	139.4	148.4
120°	36.0	40.5	98.9	121.4	125.9
122.5°	36.0	36.0	85.4	107.9	112.4
125°	31.5	36.0	80.9	94.4	98.9
127.5°	36.0	36.0	71.9	85.4	89.9
130°	36.0	40.5	62.9	80.9	80.9
132.5°	40.5	45.0	58.4	76.4	76.4
135°	40.5	45.0	49.5	71.9	76.4
137.5°	45.0	45.0	45.0	67.4	71.9
140°	45.0	45.0	40.5	58.4	62.9
142.5°	40.5	45.0	40.5	54.0	58.4
145°	40.5	45.0	45.0	49.5	54.0
147.5°	45.0	45.0	45.0	45.0	49.5
150°	45.0	45.0	45.0	45.0	45.0
152.5°	45.0	45.0	45.0	45.0	45.0
155°	45.0	49.5	49.5	49.5	45.0
157.5°	45.0	49.5	49.5	49.5	49.5
160°	45.0	49.5	49.5	49.5	49.5
162.5°	49.5	49.5	49.5	49.5	49.5
165°	49.5	49.5	49.5	49.5	49.5
167.5°	49.5	54.0	49.5	49.5	49.5
170°	49.5	49.5	49.5	45.0	45.0
172.5°	49.5	49.5	49.5	45.0	45.0
175°	49.5	49.5	45.0	40.5	40.5
177.5°	54.0	49.5	45.0	40.5	36.0
180°	45.0	45.0	45.0	45.0	45.0



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	22.5	85.4	220.3	265.3	274.3
110°	27.0	71.9	184.3	224.8	233.8



(END OF REPORT)