

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: P829663

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

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P829663  
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-A-UNV-L830-CD  
Description: 100000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 3000K LEDS AND AISLE LENS  
Light Source: -  
Ballast/Driver: -

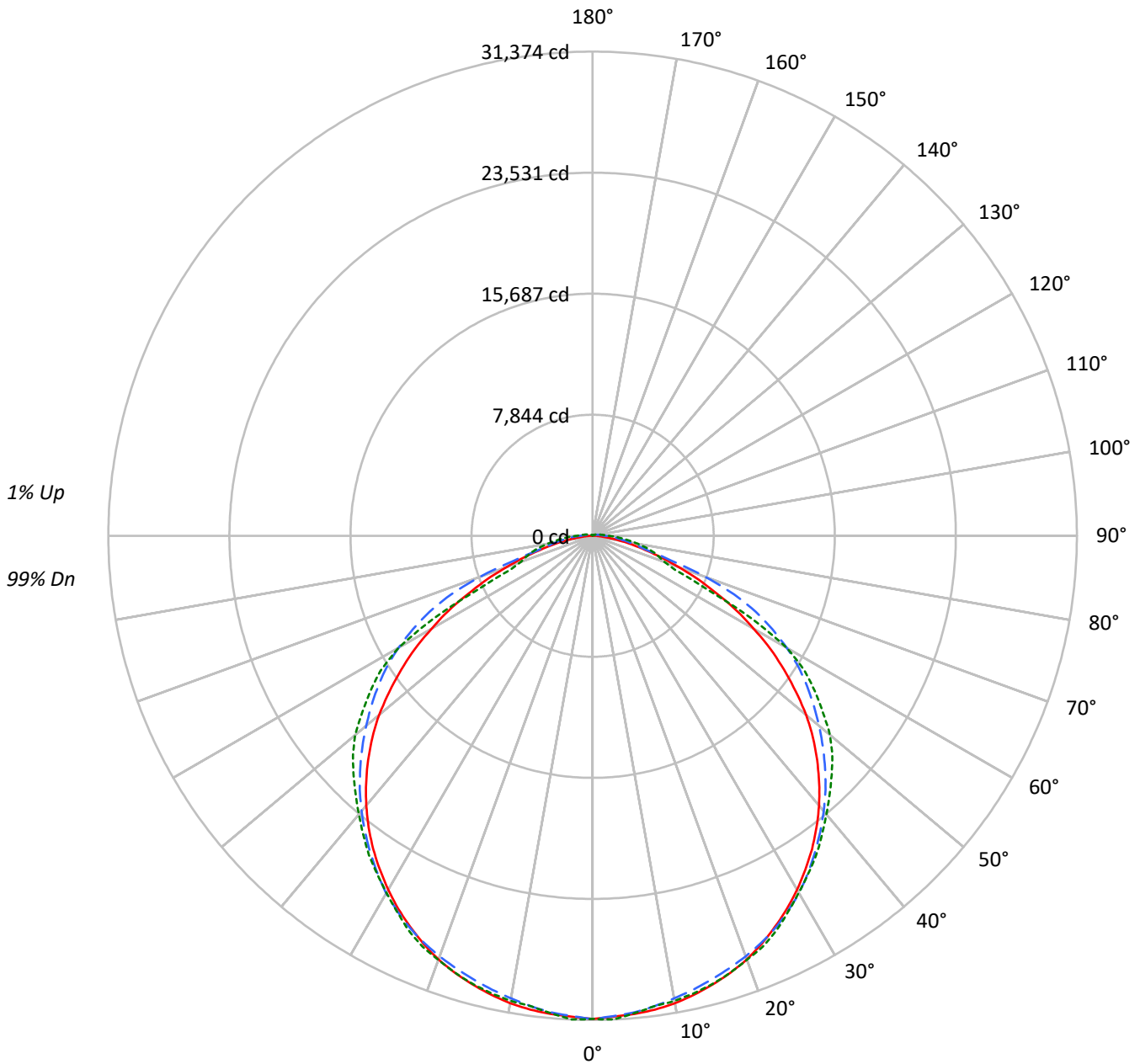
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 88497.0 lumens  
Efficiency: N/A  
Efficacy: 150.0 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 (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: P829663

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

### Luminous Intensity Polar Plot





TEST NUMBER: P829663

CATALOG NUMBER: OHBL-100SE-A-UNV-L830-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°	49516	49516	49516
5°	49192	48797	48900
10°	49012	48058	48357
15°	48701	47505	48033
20°	48390	47157	47608
25°	47807	46806	47186
30°	47171	46254	46294
35°	46412	45377	45801
40°	45425	44471	45131
45°	44057	43422	44834
50°	42203	42229	44479
55°	39257	41055	42819
60°	35401	39337	39587
65°	30368	36148	25088
70°	24460	28219	18189
75°	18338	16751	18461
80°	12765	13928	17626
85°	7265	12762	16521



TEST NUMBER: P829663

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

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2952.3	3.3
10°-20°	8465.7	9.6
20°-30°	12929.8	14.6
30°-40°	15688.3	17.7
40°-50°	16442.8	18.6
50°-60°	14899.7	16.8
60°-70°	9989.7	11.3
70°-80°	4485.8	5.1
80°-90°	1627.8	1.8
90°-100°	490.0	0.6
100°-110°	231.2	0.3
110°-120°	115.9	0.1
120°-130°	63.9	0.1
130°-140°	44.0	0.0
140°-150°	29.6	0.0
150°-160°	22.0	0.0
160°-170°	14.1	0.0
170°-180°	4.5	0.0
0°-30°	24347.8	27.5
0°-40°	40036.1	45.2
0°-60°	71378.7	80.7
0°-90°	87482.0	98.9
90°-120°	837.1	0.9
90°-150°	974.5	1.1
90°-180°	1015.0	1.1
0°-180°	88497.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	31310	31310	31310	31310	31310	
5°	31107	31215	30998	31093	31052	###
15°	30097	29979	29766	30029	30065	8498
25°	27960	27838	28033	28291	28209	12888
35°	24782	24841	25094	25362	25262	15489
45°	20567	20902	21292	21835	21903	15844
55°	15134	15863	16945	17624	17584	13509
65°	8882	10272	11662	9842	8036	8850
75°	3495	5070	3730	3816	4066	3820
85°	602	1154	1480	1788	1874	735
90°	4	385	765	960	1005	36
95°	4	240	525	638	656	6
105°	18	104	258	312	326	21
115°	36	54	131	168	177	34
125°	32	36	82	95	100	31
135°	41	45	50	72	77	32
145°	41	45	45	50	54	27
155°	45	50	50	50	45	21
165°	50	50	50	50	50	14
175°	50	50	45	41	41	5
180°	45	45	45	45	45	



TEST NUMBER: P829663

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

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	31310.3	31310.3	31310.3	31310.3	<i>31310.3</i>
2.5°	<i>31183.6</i>	<i>31314.8</i>	<i>31151.9</i>	<i>31328.4</i>	<i>31373.7</i>
5°	31106.6	31215.2	30997.9	31093.0	<i>31052.3</i>
7.5°	30966.2	31002.5	30744.4	30821.4	<i>30739.9</i>
10°	30758.0	30739.9	30436.6	30586.0	<i>30604.1</i>
12.5°	30450.1	30395.8	30124.2	30350.5	<i>30355.1</i>
15°	30097.0	29979.3	29766.5	30029.1	<i>30065.3</i>
17.5°	29689.6	29535.6	29395.3	29734.8	<i>29680.5</i>
20°	29214.2	29033.1	29006.0	29377.2	<i>29241.4</i>
22.5°	28625.7	28485.3	28548.7	28901.8	<i>28815.8</i>
25°	27960.2	27837.9	28032.6	28290.7	<i>28209.2</i>
27.5°	27258.4	27186.0	27407.8	27607.0	<i>27448.6</i>
30°	26488.8	26448.1	26742.3	26905.3	<i>26706.1</i>
32.5°	25651.3	25664.9	25945.5	26167.4	<i>25981.8</i>
35°	24782.0	24840.9	25094.4	25361.5	<i>25261.9</i>
37.5°	23826.8	23958.1	24211.6	24514.9	<i>24410.8</i>
40°	22817.2	23007.4	23288.1	23654.8	<i>23559.7</i>
42.5°	21726.2	21966.1	22328.3	22735.7	<i>22726.7</i>
45°	20567.2	20902.2	21291.6	21834.8	<i>21902.7</i>
47.5°	19363.0	19738.7	20232.2	20956.5	<i>21060.7</i>
50°	18054.6	18525.4	19141.1	20010.4	<i>20073.7</i>
52.5°	16596.8	17239.7	18054.6	18887.6	<i>18810.6</i>
55°	15134.5	15863.4	16945.4	17624.5	<i>17583.8</i>
57.5°	13676.8	14496.2	15809.1	16293.5	<i>16289.0</i>
60°	12047.0	13083.7	14518.8	14885.5	<i>14523.3</i>
62.5°	10539.4	11653.1	13142.5	12875.4	<i>11635.0</i>
65°	8882.4	10272.3	11662.1	9842.2	<i>8035.8</i>
67.5°	7411.1	8859.8	9905.6	6741.0	<i>5772.2</i>
70°	5930.7	7528.8	7723.5	5002.6	<i>4934.7</i>
72.5°	4617.8	6320.0	5328.5	4282.8	<i>4500.1</i>
75°	3495.0	5070.5	3730.4	3816.5	<i>4065.5</i>
77.5°	2548.8	3893.4	2902.0	3345.6	<i>3549.3</i>
80°	1752.0	2757.1	2367.7	2811.4	<i>2951.8</i>
82.5°	1100.1	1819.9	1896.9	2263.6	<i>2408.5</i>
85°	602.1	1154.4	1480.4	1788.3	<i>1874.3</i>
87.5°	249.0	697.2	1131.8	1380.8	<i>1453.2</i>
90°	4.5	384.8	765.1	959.8	<i>1005.0</i>
92.5°	4.5	294.3	624.8	774.2	<i>805.8</i>
95°	4.5	239.9	525.2	638.3	<i>656.4</i>
97.5°	9.1	190.1	439.1	529.7	<i>547.8</i>
100°	13.6	158.5	366.7	443.7	<i>457.3</i>
102.5°	18.1	126.8	307.9	371.2	<i>384.8</i>
105°	18.1	104.1	258.1	312.4	<i>326.0</i>



TEST NUMBER: P829663

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

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	31.7	63.4	153.9	194.7	203.7
115°	36.2	54.3	131.3	167.5	176.6
117.5°	36.2	45.3	113.2	140.3	149.4
120°	36.2	40.7	99.6	122.2	126.8
122.5°	36.2	36.2	86.0	108.7	113.2
125°	31.7	36.2	81.5	95.1	99.6
127.5°	36.2	36.2	72.4	86.0	90.5
130°	36.2	40.7	63.4	81.5	81.5
132.5°	40.7	45.3	58.9	77.0	77.0
135°	40.7	45.3	49.8	72.4	77.0
137.5°	45.3	45.3	45.3	67.9	72.4
140°	45.3	45.3	40.7	58.9	63.4
142.5°	40.7	45.3	40.7	54.3	58.9
145°	40.7	45.3	45.3	49.8	54.3
147.5°	45.3	45.3	45.3	45.3	49.8
150°	45.3	45.3	45.3	45.3	45.3
152.5°	45.3	45.3	45.3	45.3	45.3
155°	45.3	49.8	49.8	49.8	45.3
157.5°	45.3	49.8	49.8	49.8	49.8
160°	45.3	49.8	49.8	49.8	49.8
162.5°	49.8	49.8	49.8	49.8	49.8
165°	49.8	49.8	49.8	49.8	49.8
167.5°	49.8	54.3	49.8	49.8	49.8
170°	49.8	49.8	49.8	45.3	45.3
172.5°	49.8	49.8	49.8	45.3	45.3
175°	49.8	49.8	45.3	40.7	40.7
177.5°	54.3	49.8	45.3	40.7	36.2
180°	45.3	45.3	45.3	45.3	45.3



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	22.6	86.0	221.8	267.1	276.2
110°	27.2	72.4	185.6	226.4	235.4



(END OF REPORT)