

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: P830794

Luminaire Tested: **OHBL-72SE-NL-UNV-L850-CD**

Issue Date: 5/3/2024



**Test Information**

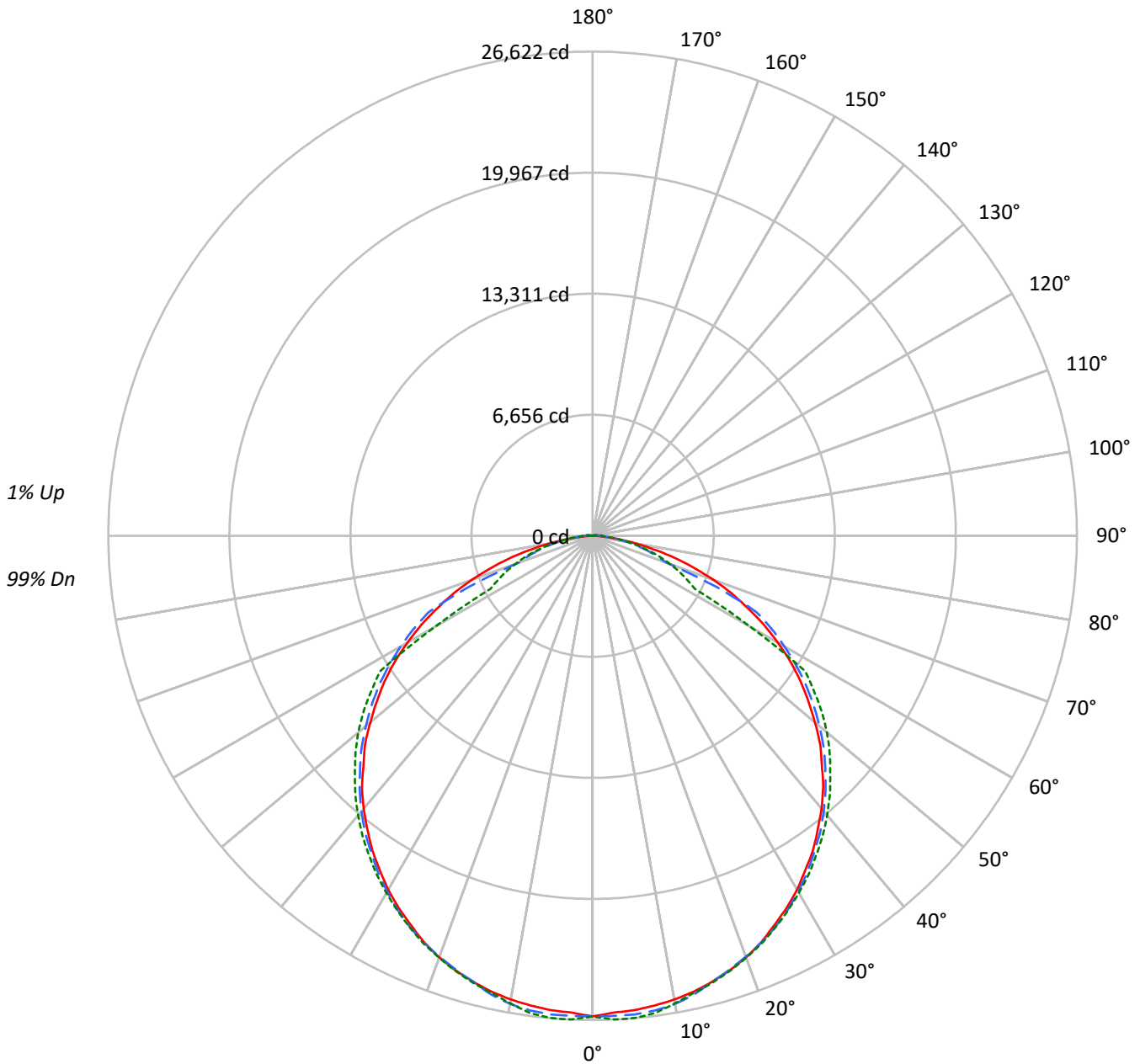
Test Method: LM-79-08  
Report Number: P830794  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P472951)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-72SE-NL-UNV-L850-CD  
Description: 72000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 5000K LEDS AND NO LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 74199.0 lumens  
Efficiency: N/A  
Efficacy: 179.4 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): 413.7  
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: P830794  
CATALOG NUMBER: OHBL-72SE-NL-UNV-L850-CD

### Luminous Intensity Polar Plot





TEST NUMBER: P830794

CATALOG NUMBER: OHBL-72SE-NL-UNV-L850-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°	41795	41795	41795
5°	41564	41940	42256
10°	41576	41971	41919
15°	41568	41561	41652
20°	41512	41449	41551
25°	41228	41438	41470
30°	41037	41249	41410
35°	40771	40995	41380
40°	40419	40802	41405
45°	39836	40438	41319
50°	39236	40035	41358
55°	38485	39483	40903
60°	37196	38516	31843
65°	35192	37238	21431
70°	32550	19769	20799
75°	28391	18786	19862
80°	21833	17233	18203
85°	11020	17416	17835



TEST NUMBER: P830794

CATALOG NUMBER: OHBL-72SE-NL-UNV-L850-CD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2510.7	3.4
10°-20°	7188.9	9.7
20°-30°	10938.6	14.7
30°-40°	13299.7	17.9
40°-50°	13984.0	18.8
50°-60°	12769.1	17.2
60°-70°	8185.6	11.0
70°-80°	3866.8	5.2
80°-90°	1072.2	1.4
90°-100°	284.0	0.4
100°-110°	77.8	0.1
110°-120°	21.5	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°	20638.2	27.8
0°-40°	33938.0	45.7
0°-60°	60691.1	81.8
0°-90°	73815.7	99.5
90°-120°	383.3	0.5
90°-150°	383.3	0.5
90°-180°	383.0	0.5
0°-180°	74199.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	26428	26428	26428	26428	26428	
5°	26182	26284	26418	26562	26618	###
15°	25389	25579	25384	25421	25440	7168
25°	23627	23664	23747	23784	23766	10902
35°	21118	20993	21234	21494	21433	13197
45°	17812	17779	18080	18507	18475	13767
55°	13958	13851	14320	14798	14835	12448
65°	9404	9404	9951	5708	5727	9324
75°	4646	4735	3074	3237	3251	4898
85°	607	770	960	1039	983	898
90°	0	260	427	505	496	27
95°	14	134	306	413	413	8
105°	23	51	74	74	70	23
115°	23	32	46	32	4	16
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: P830794

CATALOG NUMBER: OHBL-72SE-NL-UNV-L850-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	26427.8	26427.8	26427.8	26427.8	26427.8
2.5°	26242.2	26330.6	26427.8	26553.0	26622.2
5°	26181.8	26283.9	26418.4	26562.3	26617.8
7.5°	26052.2	26195.6	26325.7	26427.8	26460.2
10°	25889.7	26061.5	26135.7	26126.3	26103.3
12.5°	25671.7	25852.9	25829.8	25722.8	25741.4
15°	25388.9	25578.9	25384.5	25421.3	25440.0
17.5°	25055.1	25240.6	25013.3	25087.5	25092.4
20°	24665.7	24804.7	24628.4	24688.8	24688.8
22.5°	24197.4	24294.6	24220.4	24262.2	24271.5
25°	23626.9	23663.7	23747.1	23784.5	23765.8
27.5°	23079.9	23033.3	23195.8	23283.7	23237.0
30°	22472.1	22398.0	22588.0	22731.8	22676.4
32.5°	21776.4	21730.3	21948.3	22119.6	22087.2
35°	21118.1	20992.9	21233.9	21493.6	21433.3
37.5°	20338.9	20264.8	20538.2	20812.2	20779.8
40°	19578.4	19453.2	19764.0	20088.5	20056.1
42.5°	18762.4	18613.7	18952.4	19342.3	19305.0
45°	17811.5	17779.1	18080.5	18507.1	18474.7
47.5°	16968.0	16805.5	17227.2	17640.1	17677.4
50°	15947.3	15887.4	16272.3	16773.1	16809.9
52.5°	14950.7	14908.9	15312.0	15817.7	15882.5
55°	13957.9	13851.4	14319.8	14797.5	14834.8
57.5°	12896.5	12785.0	13262.7	13782.2	13860.7
60°	11759.9	11653.4	12177.2	12659.8	10067.6
62.5°	10623.8	10549.7	11097.1	7860.2	6334.8
65°	9404.3	9404.3	9951.2	5708.4	5727.0
67.5°	8263.8	8189.7	7419.8	5128.5	5128.5
70°	7039.4	7067.3	4275.3	4493.7	4498.2
72.5°	5810.5	5912.6	3691.5	3867.3	3876.6
75°	4646.4	4734.8	3074.4	3236.9	3250.6
77.5°	3413.1	2624.7	2471.5	2597.2	2601.6
80°	2397.3	1655.5	1892.2	2012.4	1998.7
82.5°	1400.2	1159.2	1386.5	1474.8	1469.9
85°	607.3	769.8	959.8	1038.9	982.9
87.5°	194.4	477.7	598.0	644.6	639.7
90°	0.0	259.7	426.6	505.2	496.4
92.5°	0.0	203.7	371.2	464.0	468.4
95°	13.7	134.5	306.4	412.9	412.9
97.5°	9.3	97.2	218.0	324.5	333.9
100°	9.3	78.6	143.9	231.7	236.6
102.5°	23.1	64.8	87.9	148.3	153.2
105°	23.1	51.1	74.1	74.1	69.7



TEST NUMBER: P830794

CATALOG NUMBER: OHBL-72SE-NL-UNV-L850-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	28.0	37.3	51.1	37.3	4.4
115°	23.1	32.4	46.2	32.4	4.4
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°	23.1	46.2	64.8	41.7	13.7
110°	28.0	41.7	55.5	37.3	4.4



(END OF REPORT)