

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: P830791

Luminaire Tested: **OHBL-72SE-NL-UNV-L830-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P830791  
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-L830-CD  
Description: 72000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 3000K LEDS AND NO LENS  
Light Source: -  
Ballast/Driver: -

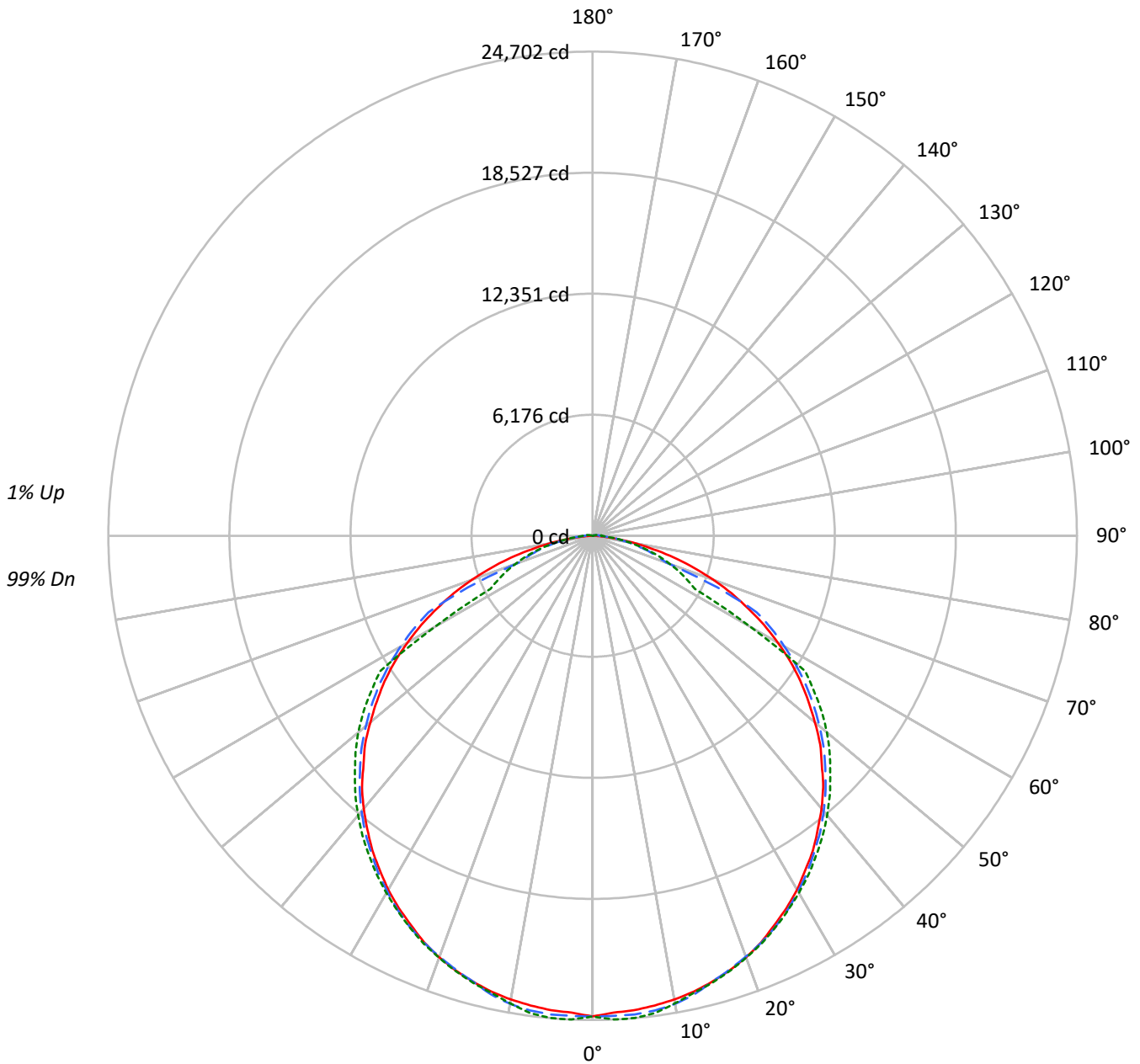
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 68847.0 lumens  
Efficiency: N/A  
Efficacy: 166.4 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

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### 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	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°	38780	38780	38780
5°	38566	38915	39208
10°	38577	38943	38895
15°	38570	38563	38648
20°	38517	38459	38553
25°	38254	38449	38479
30°	38077	38273	38423
35°	37830	38038	38395
40°	37504	37859	38419
45°	36963	37521	38339
50°	36406	37148	38375
55°	35709	36635	37952
60°	34513	35738	29546
65°	32653	34552	19885
70°	30202	18343	19299
75°	26344	17430	18430
80°	20258	15990	16890
85°	10225	16160	16549



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2329.6	3.4
10°-20°	6670.4	9.7
20°-30°	10149.6	14.7
30°-40°	12340.4	17.9
40°-50°	12975.4	18.8
50°-60°	11848.1	17.2
60°-70°	7595.2	11.0
70°-80°	3587.9	5.2
80°-90°	994.9	1.4
90°-100°	263.5	0.4
100°-110°	72.1	0.1
110°-120°	20.0	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°	19149.6	27.8
0°-40°	31490.0	45.7
0°-60°	56313.4	81.8
0°-90°	68491.4	99.5
90°-120°	355.6	0.5
90°-150°	355.6	0.5
90°-180°	356.0	0.5
0°-180°	68847.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	24522	24522	24522	24522	24522	
5°	24293	24388	24513	24646	24698	###
15°	23558	23734	23554	23588	23605	6651
25°	21923	21957	22034	22069	22052	10116
35°	19595	19479	19702	19943	19887	12246
45°	16527	16497	16776	17172	17142	12774
55°	12951	12852	13287	13730	13765	11550
65°	8726	8726	9233	5297	5314	8651
75°	4311	4393	2853	3003	3016	4545
85°	564	714	891	964	912	833
90°	0	241	396	469	461	25
95°	13	125	284	383	383	7
105°	21	47	69	69	65	22
115°	21	30	43	30	4	15
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



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CATALOG NUMBER: OHBL-72SE-NL-UNV-L830-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	24521.5	24521.5	24521.5	24521.5	24521.5
2.5°	24349.3	24431.3	24521.5	24637.7	24701.9
5°	24293.3	24388.1	24512.9	24646.3	24697.8
7.5°	24173.0	24306.1	24426.8	24521.5	24551.6
10°	24022.3	24181.7	24250.5	24241.8	24220.4
12.5°	23820.0	23988.1	23966.7	23867.4	23884.7
15°	23557.6	23733.9	23553.5	23587.7	23605.0
17.5°	23247.8	23420.0	23209.1	23277.9	23282.4
20°	22886.6	23015.5	22852.0	22908.0	22908.0
22.5°	22452.0	22542.2	22473.4	22512.1	22520.8
25°	21922.6	21956.8	22034.3	22068.9	22051.6
27.5°	21415.2	21371.9	21522.7	21604.2	21560.9
30°	20851.2	20782.4	20958.7	21092.2	21040.7
32.5°	20205.7	20162.9	20365.1	20524.1	20494.1
35°	19594.8	19478.6	19702.3	19943.3	19887.3
37.5°	18871.9	18803.1	19056.8	19311.0	19280.9
40°	18166.2	18050.1	18338.4	18639.5	18609.5
42.5°	17409.1	17271.1	17585.4	17947.1	17912.5
45°	16526.7	16496.6	16776.4	17172.2	17142.2
47.5°	15744.1	15593.3	15984.6	16367.7	16402.4
50°	14797.0	14741.4	15098.6	15563.2	15597.4
52.5°	13872.3	13833.5	14207.5	14676.7	14736.9
55°	12951.1	12852.3	13286.9	13730.1	13764.7
57.5°	11966.3	11862.8	12306.1	12788.1	12860.9
60°	10911.7	10812.8	11298.9	11746.7	9341.4
62.5°	9857.5	9788.7	10296.7	7293.3	5877.9
65°	8726.0	8726.0	9233.4	5296.6	5313.9
67.5°	7667.7	7598.9	6884.7	4758.6	4758.6
70°	6531.6	6557.6	3966.9	4169.6	4173.7
72.5°	5391.4	5486.1	3425.2	3588.3	3597.0
75°	4311.3	4393.3	2852.6	3003.4	3016.2
77.5°	3166.9	2435.3	2293.2	2409.8	2413.9
80°	2224.4	1536.1	1755.7	1867.3	1854.5
82.5°	1299.2	1075.5	1286.5	1368.5	1363.9
85°	563.5	714.3	890.6	963.9	912.0
87.5°	180.4	443.2	554.9	598.1	593.6
90°	0.0	241.0	395.9	468.8	460.6
92.5°	0.0	189.1	344.4	430.5	434.6
95°	12.8	124.8	284.3	383.1	383.1
97.5°	8.7	90.2	202.3	301.1	309.8
100°	8.7	72.9	133.5	215.0	219.6
102.5°	21.4	60.1	81.5	137.6	142.1
105°	21.4	47.4	68.8	68.8	64.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	26.0	34.6	47.4	34.6	4.1
115°	21.4	30.1	42.8	30.1	4.1
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°	21.4	42.8	60.1	38.7	12.8
110°	26.0	38.7	51.5	34.6	4.1



(END OF REPORT)