

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: P830746

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

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P830746  
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-72SE-A-UNV-L850-CD  
Description: 72000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 5000K LEDS AND AISLE LENS  
Light Source: -  
Ballast/Driver: -

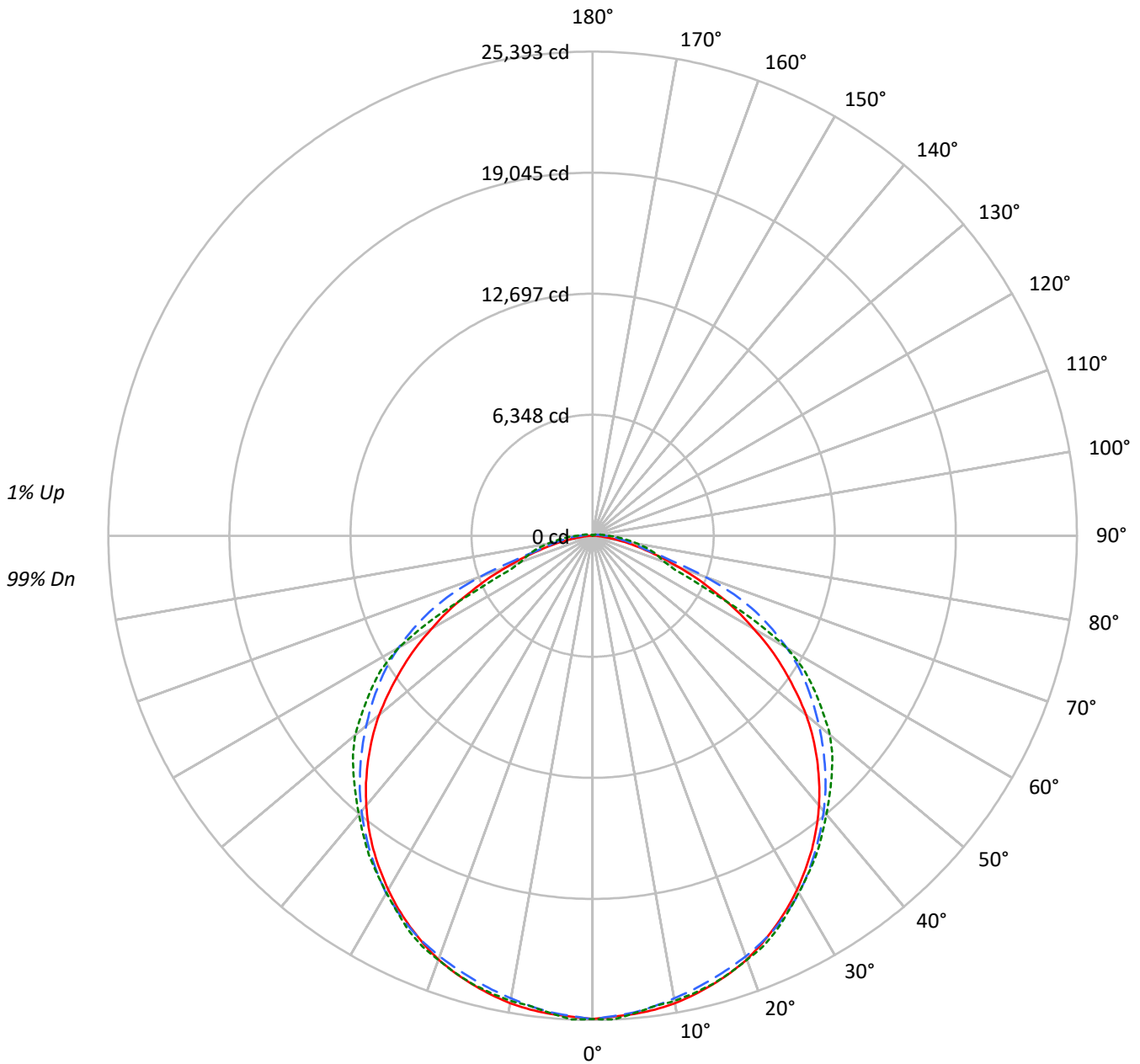
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 71628.0 lumens  
Efficiency: N/A  
Efficacy: 173.1 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): 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	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°	40078	40078	40078
5°	39816	39496	39579
10°	39670	38897	39139
15°	39418	38450	38877
20°	39166	38168	38533
25°	38694	37884	38192
30°	38180	37437	37469
35°	37565	36727	37071
40°	36766	35994	36528
45°	35659	35145	36288
50°	34158	34180	36000
55°	31774	33229	34657
60°	28653	31838	32041
65°	24579	29257	20306
70°	19798	22840	14722
75°	14843	13559	14942
80°	10332	11273	14266
85°	5880	10330	13372



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2389.5	3.3
10°-20°	6852.0	9.6
20°-30°	10465.2	14.6
30°-40°	12697.9	17.7
40°-50°	13308.6	18.6
50°-60°	12059.6	16.8
60°-70°	8085.5	11.3
70°-80°	3630.7	5.1
80°-90°	1317.5	1.8
90°-100°	396.6	0.6
100°-110°	187.1	0.3
110°-120°	93.8	0.1
120°-130°	51.7	0.1
130°-140°	35.6	0.0
140°-150°	23.9	0.0
150°-160°	17.8	0.0
160°-170°	11.4	0.0
170°-180°	3.6	0.0
0°-30°	19706.7	27.5
0°-40°	32404.6	45.2
0°-60°	57772.7	80.7
0°-90°	70806.4	98.9
90°-120°	677.5	0.9
90°-150°	788.7	1.1
90°-180°	822.0	1.1
0°-180°	71628.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	25342	25342	25342	25342	25342	
5°	25177	25265	25089	25166	25133	###
15°	24360	24265	24092	24305	24334	6878
25°	22630	22532	22689	22898	22832	10431
35°	20058	20106	20311	20527	20447	12537
45°	16647	16918	17233	17673	17728	12824
55°	12250	12840	13715	14265	14232	10934
65°	7189	8314	9439	7966	6504	7163
75°	2829	4104	3019	3089	3290	3091
85°	487	934	1198	1447	1517	595
90°	4	312	619	777	814	29
95°	4	194	425	517	531	5
105°	15	84	209	253	264	17
115°	29	44	106	136	143	27
125°	26	29	66	77	81	25
135°	33	37	40	59	62	26
145°	33	37	37	40	44	22
155°	37	40	40	40	37	17
165°	40	40	40	40	40	11
175°	40	40	37	33	33	4
180°	37	37	37	37	37	



TEST NUMBER: P830746

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

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	25342.0	25342.0	25342.0	25342.0	25342.0
2.5°	25239.4	25345.7	25213.8	25356.7	25393.3
5°	25177.2	25265.1	25089.2	25166.2	25133.2
7.5°	25063.6	25092.9	24884.0	24946.3	24880.3
10°	24895.0	24880.3	24634.8	24755.8	24770.4
12.5°	24645.8	24601.9	24382.0	24565.2	24568.9
15°	24360.0	24264.8	24092.5	24305.1	24334.4
17.5°	24030.2	23905.7	23792.1	24066.9	24022.9
20°	23645.5	23498.9	23476.9	23777.4	23667.5
22.5°	23169.1	23055.5	23106.8	23392.7	23323.0
25°	22630.5	22531.6	22689.1	22898.0	22832.0
27.5°	22062.5	22003.9	22183.5	22344.7	22216.4
30°	21439.6	21406.6	21644.8	21776.7	21615.5
32.5°	20761.7	20772.7	20999.9	21179.4	21029.2
35°	20058.2	20105.8	20311.0	20527.2	20446.6
37.5°	19285.0	19391.3	19596.5	19842.0	19757.7
40°	18467.9	18621.8	18849.0	19145.8	19068.8
42.5°	17584.8	17779.0	18072.1	18401.9	18394.6
45°	16646.7	16917.9	17233.0	17672.7	17727.7
47.5°	15672.1	15976.2	16375.6	16961.9	17046.2
50°	14613.1	14994.2	15492.5	16196.0	16247.3
52.5°	13433.2	13953.5	14613.1	15287.3	15225.0
55°	12249.6	12839.6	13715.3	14265.0	14232.0
57.5°	11069.7	11733.0	12795.6	13187.7	13184.0
60°	9750.6	10589.7	11751.3	12048.1	11755.0
62.5°	8530.4	9431.8	10637.4	10421.2	9417.2
65°	7189.3	8314.2	9439.1	7966.1	6504.1
67.5°	5998.4	7171.0	8017.4	5456.1	4671.9
70°	4800.2	6093.7	6251.2	4049.0	3994.0
72.5°	3737.5	5115.3	4312.8	3466.4	3642.3
75°	2828.8	4104.0	3019.4	3089.0	3290.5
77.5°	2063.0	3151.3	2348.8	2707.9	2872.8
80°	1418.1	2231.5	1916.4	2275.5	2389.1
82.5°	890.4	1473.0	1535.3	1832.1	1949.4
85°	487.3	934.4	1198.2	1447.4	1517.0
87.5°	201.5	564.3	916.1	1117.6	1176.2
90°	3.7	311.5	619.3	776.8	813.5
92.5°	3.7	238.2	505.7	626.6	652.2
95°	3.7	194.2	425.1	516.7	531.3
97.5°	7.3	153.9	355.4	428.7	443.4
100°	11.0	128.2	296.8	359.1	370.1
102.5°	14.7	102.6	249.2	300.5	311.5
105°	14.7	84.3	208.9	252.8	263.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	25.6	51.3	124.6	157.6	164.9
115°	29.3	44.0	106.3	135.6	142.9
117.5°	29.3	36.6	91.6	113.6	120.9
120°	29.3	33.0	80.6	98.9	102.6
122.5°	29.3	29.3	69.6	87.9	91.6
125°	25.6	29.3	66.0	76.9	80.6
127.5°	29.3	29.3	58.6	69.6	73.3
130°	29.3	33.0	51.3	66.0	66.0
132.5°	33.0	36.6	47.6	62.3	62.3
135°	33.0	36.6	40.3	58.6	62.3
137.5°	36.6	36.6	36.6	55.0	58.6
140°	36.6	36.6	33.0	47.6	51.3
142.5°	33.0	36.6	33.0	44.0	47.6
145°	33.0	36.6	36.6	40.3	44.0
147.5°	36.6	36.6	36.6	36.6	40.3
150°	36.6	36.6	36.6	36.6	36.6
152.5°	36.6	36.6	36.6	36.6	36.6
155°	36.6	40.3	40.3	40.3	36.6
157.5°	36.6	40.3	40.3	40.3	40.3
160°	36.6	40.3	40.3	40.3	40.3
162.5°	40.3	40.3	40.3	40.3	40.3
165°	40.3	40.3	40.3	40.3	40.3
167.5°	40.3	44.0	40.3	40.3	40.3
170°	40.3	40.3	40.3	36.6	36.6
172.5°	40.3	40.3	40.3	36.6	36.6
175°	40.3	40.3	36.6	33.0	33.0
177.5°	44.0	40.3	36.6	33.0	29.3
180°	36.6	36.6	36.6	36.6	36.6



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	18.3	69.6	179.5	216.2	223.5
110°	22.0	58.6	150.2	183.2	190.5



(END OF REPORT)