

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: P830529

Luminaire Tested: **OHBL-48SE-A-UNV-L840-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P830529  
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-48SE-A-UNV-L840-CD  
Description: 48000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND AISLE LENS  
Light Source: -  
Ballast/Driver: -

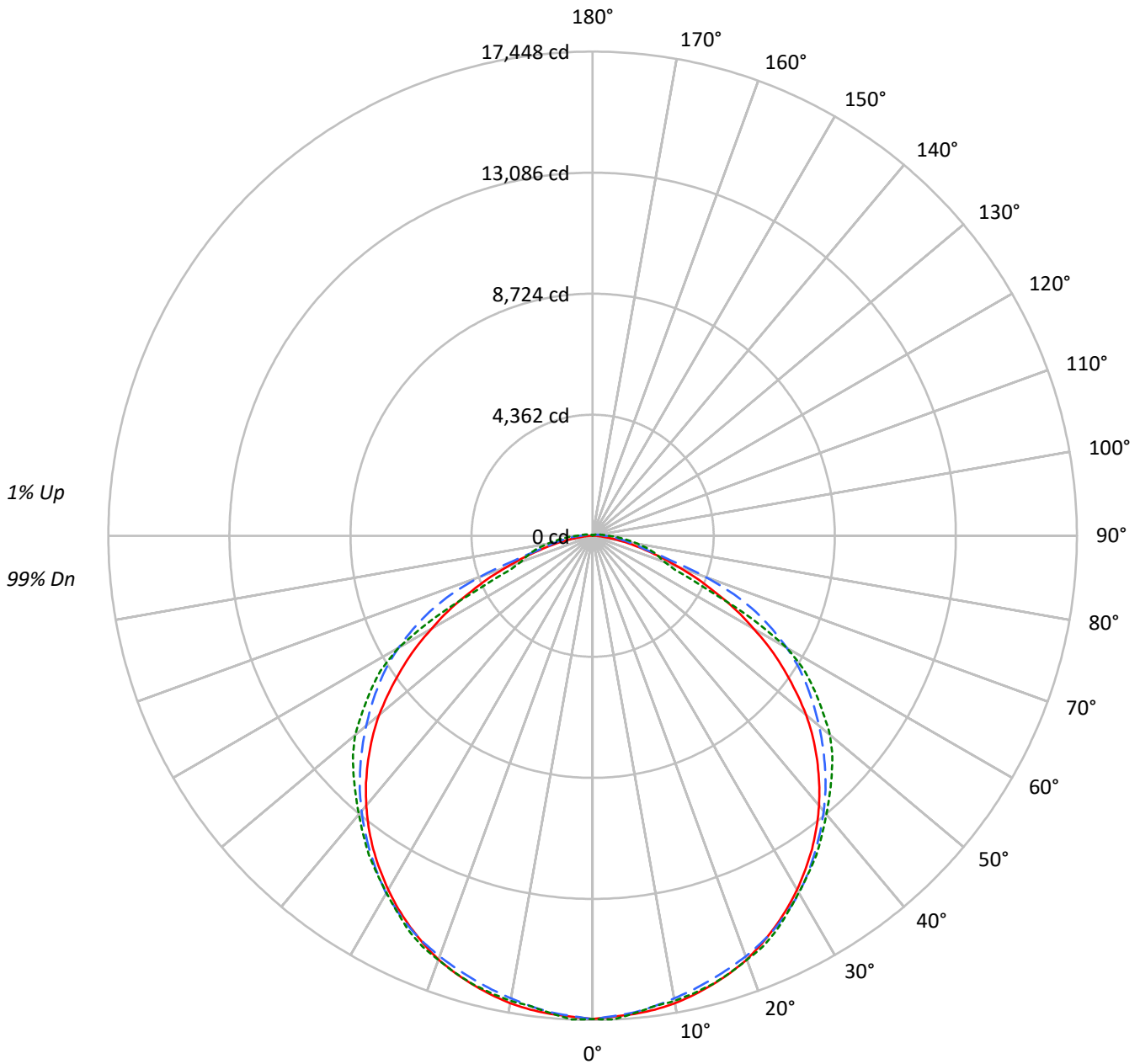
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 49217.0 lumens  
Efficiency: N/A  
Efficacy: 170.4 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 288.8  
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: P830529

CATALOG NUMBER: OHBL-48SE-A-UNV-L840-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°	29741	29741	29741
5°	29547	29296	29352
10°	29438	28839	29007
15°	29252	28494	28794
20°	29065	28272	28520
25°	28714	28048	28248
30°	28333	27702	27693
35°	27877	27161	27376
40°	27284	26602	26952
45°	26462	25957	26748
50°	25348	25223	26505
55°	23579	24498	25480
60°	21263	23445	23517
65°	18240	21511	14872
70°	14692	16758	10751
75°	11015	9919	10865
80°	7667	8208	10303
85°	4364	7453	9531



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1641.9	3.3
10°-20°	4708.2	9.6
20°-30°	7190.8	14.6
30°-40°	8724.9	17.7
40°-50°	9144.6	18.6
50°-60°	8286.4	16.8
60°-70°	5555.7	11.3
70°-80°	2494.7	5.1
80°-90°	905.3	1.8
90°-100°	272.5	0.6
100°-110°	128.6	0.3
110°-120°	64.4	0.1
120°-130°	35.5	0.1
130°-140°	24.4	0.0
140°-150°	16.4	0.0
150°-160°	12.2	0.0
160°-170°	7.9	0.0
170°-180°	2.5	0.0
0°-30°	13540.9	27.5
0°-40°	22265.8	45.2
0°-60°	39696.8	80.7
0°-90°	48652.5	98.9
90°-120°	465.5	0.9
90°-150°	541.9	1.1
90°-180°	565.0	1.1
0°-180°	49217.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	17413	17413	17413	17413	17413	
5°	17300	17360	17239	17292	17270	###
15°	16738	16673	16554	16700	16721	4726
25°	15550	15482	15590	15734	15688	7168
35°	13782	13815	13956	14105	14049	8614
45°	11438	11625	11841	12143	12181	8811
55°	8417	8822	9424	9802	9779	7513
65°	4940	5713	6486	5474	4469	4922
75°	1944	2820	2075	2122	2261	2124
85°	335	642	823	994	1042	409
90°	2	214	426	534	559	20
95°	2	133	292	355	365	3
105°	10	58	144	174	181	12
115°	20	30	73	93	98	19
125°	18	20	45	53	55	17
135°	23	25	28	40	43	18
145°	23	25	25	28	30	15
155°	25	28	28	28	25	12
165°	28	28	28	28	28	8
175°	28	28	25	23	23	3
180°	25	25	25	25	25	



TEST NUMBER: P830529

CATALOG NUMBER: OHBL-48SE-A-UNV-L840-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	17413.0	17413.0	17413.0	17413.0	17413.0
2.5°	17342.5	17415.5	17324.9	17423.1	17448.3
5°	17299.7	17360.1	17239.3	17292.2	17269.5
7.5°	17221.7	17241.8	17098.3	17141.1	17095.8
10°	17105.8	17095.8	16927.1	17010.2	17020.2
12.5°	16934.6	16904.4	16753.4	16879.2	16881.8
15°	16738.2	16672.8	16554.5	16700.5	16720.6
17.5°	16511.6	16426.0	16348.0	16536.8	16506.6
20°	16247.3	16146.6	16131.5	16337.9	16262.4
22.5°	15920.0	15841.9	15877.2	16073.6	16025.7
25°	15549.9	15481.9	15590.1	15733.7	15688.3
27.5°	15159.6	15119.3	15242.7	15353.5	15265.3
30°	14731.6	14708.9	14872.6	14963.2	14852.4
32.5°	14265.8	14273.3	14429.4	14552.8	14449.6
35°	13782.4	13815.1	13956.1	14104.6	14049.3
37.5°	13251.1	13324.1	13465.1	13633.8	13575.9
40°	12689.6	12795.4	12951.5	13155.4	13102.6
42.5°	12082.9	12216.3	12417.7	12644.3	12639.3
45°	11438.3	11624.6	11841.2	12143.3	12181.1
47.5°	10768.6	10977.6	11252.0	11654.8	11712.7
50°	10040.9	10302.8	10645.2	11128.6	11163.9
52.5°	9230.2	9587.7	10040.9	10504.2	10461.4
55°	8417.0	8822.3	9424.1	9801.7	9779.1
57.5°	7606.2	8062.0	8792.1	9061.5	9059.0
60°	6699.8	7276.4	8074.5	8278.5	8077.1
62.5°	5861.4	6480.8	7309.1	7160.6	6470.7
65°	4939.9	5712.9	6485.8	5473.7	4469.1
67.5°	4121.6	4927.3	5508.9	3749.0	3210.2
70°	3298.3	4187.1	4295.3	2782.2	2744.4
72.5°	2568.1	3514.8	2963.4	2381.8	2502.7
75°	1943.7	2819.9	2074.7	2122.5	2261.0
77.5°	1417.5	2165.3	1613.9	1860.6	1973.9
80°	974.4	1533.3	1316.8	1563.5	1641.6
82.5°	611.8	1012.2	1055.0	1258.9	1339.5
85°	334.9	642.0	823.3	994.5	1042.4
87.5°	138.5	387.7	629.4	767.9	808.2
90°	2.5	214.0	425.5	533.8	558.9
92.5°	2.5	163.7	347.5	430.5	448.2
95°	2.5	133.4	292.1	355.0	365.1
97.5°	5.0	105.7	244.2	294.6	304.7
100°	7.6	88.1	203.9	246.7	254.3
102.5°	10.1	70.5	171.2	206.5	214.0
105°	10.1	57.9	143.5	173.7	181.3



TEST NUMBER: P830529

CATALOG NUMBER: OHBL-48SE-A-UNV-L840-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	17.6	35.2	85.6	108.3	113.3
115°	20.1	30.2	73.0	93.2	98.2
117.5°	20.1	25.2	62.9	78.1	83.1
120°	20.1	22.7	55.4	68.0	70.5
122.5°	20.1	20.1	47.8	60.4	62.9
125°	17.6	20.1	45.3	52.9	55.4
127.5°	20.1	20.1	40.3	47.8	50.4
130°	20.1	22.7	35.2	45.3	45.3
132.5°	22.7	25.2	32.7	42.8	42.8
135°	22.7	25.2	27.7	40.3	42.8
137.5°	25.2	25.2	25.2	37.8	40.3
140°	25.2	25.2	22.7	32.7	35.2
142.5°	22.7	25.2	22.7	30.2	32.7
145°	22.7	25.2	25.2	27.7	30.2
147.5°	25.2	25.2	25.2	25.2	27.7
150°	25.2	25.2	25.2	25.2	25.2
152.5°	25.2	25.2	25.2	25.2	25.2
155°	25.2	27.7	27.7	27.7	25.2
157.5°	25.2	27.7	27.7	27.7	27.7
160°	25.2	27.7	27.7	27.7	27.7
162.5°	27.7	27.7	27.7	27.7	27.7
165°	27.7	27.7	27.7	27.7	27.7
167.5°	27.7	30.2	27.7	27.7	27.7
170°	27.7	27.7	27.7	25.2	25.2
172.5°	27.7	27.7	27.7	25.2	25.2
175°	27.7	27.7	25.2	22.7	22.7
177.5°	30.2	27.7	25.2	22.7	20.1
180°	25.2	25.2	25.2	25.2	25.2



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	12.6	47.8	123.4	148.5	153.6
110°	15.1	40.3	103.2	125.9	130.9



(END OF REPORT)