

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: P828711

Luminaire Tested: **OHBL-48HE-A-UNV-L950-CD-UPL24**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P828711  
REPORT IS A COMBINATION OF REPORTS P826251 AND G3-2310-221-6  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-48HE-A-UNV-L950-CD-UPL24  
Description:  
Light Source: -  
Ballast/Driver: -

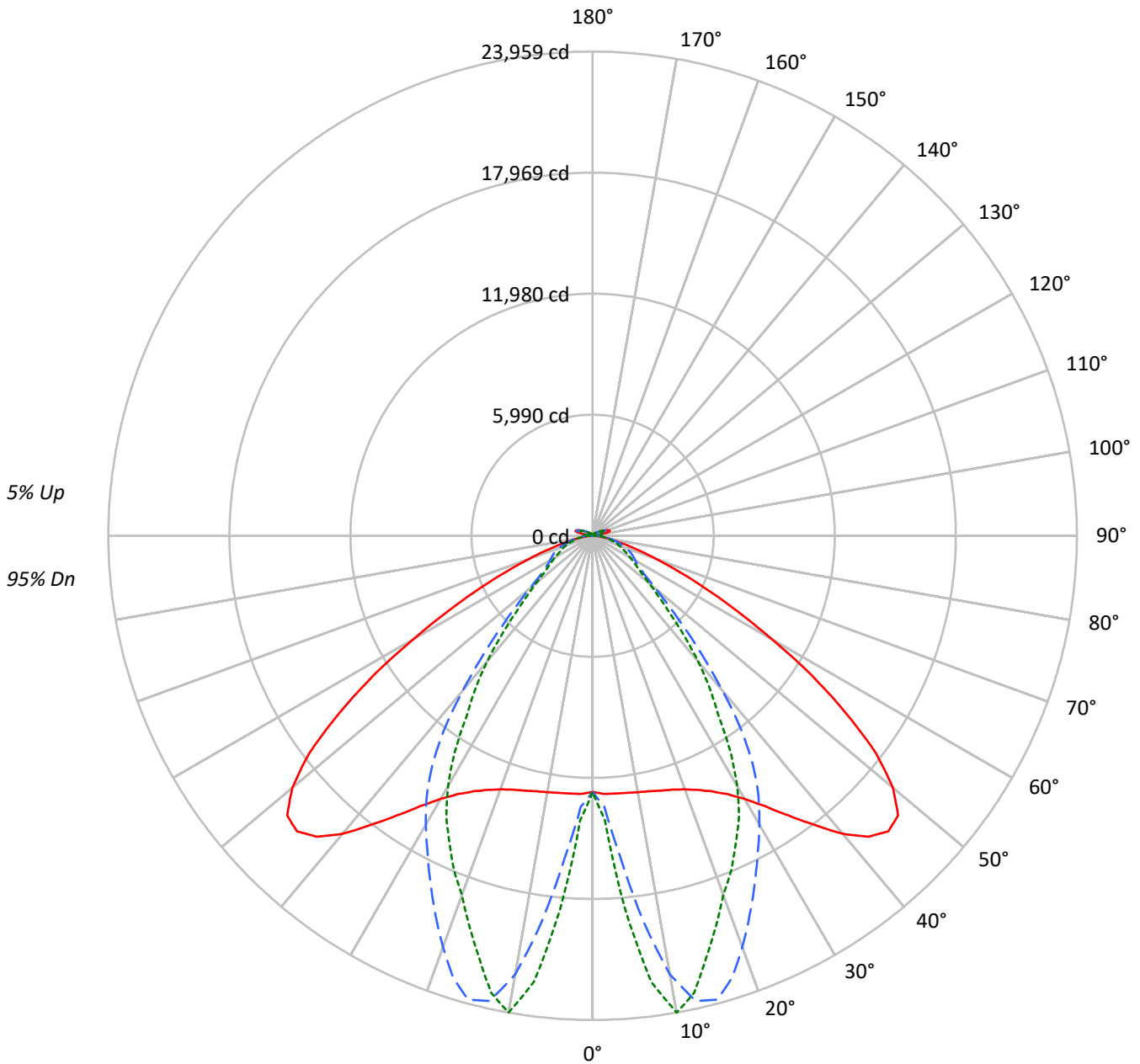
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 42789.9 lumens  
Efficiency: N/A  
Efficacy: 151.0 lumens/watt  
Spacing Criteria (0/90/45): 2.18 / 1.37 / 1.3  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 283.4  
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	118	118	118	118	115	115	115	115	108	108	108	103	103	103	98	98	98	95																			
1	109	105	102	99	106	103	100	97	98	95	93	93	91	89	89	87	86	83																			
2	101	94	88	84	98	92	87	82	88	83	80	84	80	77	80	77	75	73																			
3	94	85	78	72	91	83	76	71	79	74	69	76	71	68	73	69	66	64																			
4	87	76	69	63	84	75	68	62	72	66	61	69	64	60	66	62	58	56																			
5	80	69	61	55	78	68	60	55	65	59	54	63	57	53	61	56	52	50																			
6	75	63	55	49	73	62	54	49	60	53	48	58	52	48	56	51	47	45																			
7	70	58	50	44	68	57	49	44	55	48	43	53	47	43	51	46	42	40																			
8	65	53	45	40	64	52	45	40	51	44	39	49	43	39	48	42	38	37																			
9	61	49	42	37	60	48	41	36	47	40	36	46	40	35	44	39	35	33																			
10	58	46	38	33	56	45	38	33	44	37	33	42	37	33	41	36	32	31																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	20051	20051	20051
5°	20166	25230	29393
10°	20359	34800	38178
15°	20858	37927	35041
20°	21734	35208	31316
25°	23336	31679	28645
30°	26041	28540	25471
35°	30639	24994	20297
40°	36873	19046	16154
45°	42339	12985	11497
50°	42972	8915	8503
55°	37248	7022	6947
60°	27871	6579	6250
65°	19145	6609	5920
70°	12277	6388	5734
75°	7414	5930	5486
80°	4392	5236	5660
85°	2142	4537	5249



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1655.2	3.9
10°-20°	5842.1	13.7
20°-30°	8608.6	20.1
30°-40°	9046.3	21.1
40°-50°	6922.1	16.2
50°-60°	4179.8	9.8
60°-70°	2550.7	6.0
70°-80°	1392.2	3.3
80°-90°	494.0	1.2
90°-100°	201.6	0.5
100°-110°	699.8	1.6
110°-120°	600.3	1.4
120°-130°	288.0	0.7
130°-140°	144.1	0.3
140°-150°	83.5	0.2
150°-160°	48.7	0.1
160°-170°	25.2	0.1
170°-180°	7.7	0.0
0°-30°	16105.9	37.6
0°-40°	25152.2	58.8
0°-60°	36254.1	84.7
0°-90°	40691.0	95.1
90°-120°	1501.7	3.5
90°-150°	2017.3	4.7
90°-180°	2099.0	4.9
0°-180°	42789.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	12679	12679	12679	12679	12679	
5°	12806	13739	16027	17896	18586	###
15°	13056	20334	23765	22176	21655	3712
25°	13951	23600	18973	17177	16753	6520
35°	16899	18899	13822	11511	10838	10720
45°	20684	10784	6367	5603	5367	15628
55°	15296	3657	2898	2686	2678	13516
65°	6132	2315	2132	1825	1732	6283
75°	1633	1440	1321	1090	1046	1879
85°	243	446	526	480	435	300
90°	4	30	41	54	60	16
95°	46	96	150	198	224	143
105°	872	862	734	522	480	827
115°	602	608	608	606	601	607
125°	294	310	316	315	312	276
135°	174	177	184	185	187	137
145°	126	130	132	133	134	80
155°	101	103	104	105	105	47
165°	87	88	89	89	89	25
175°	78	79	79	80	80	8
180°	78	78	78	78	78	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	12678.8	12678.8	12678.8	12678.8	12678.8
2.5°	12782.6	12913.1	13427.4	13961.3	14091.3
5°	12806.0	13739.0	16027.3	17895.9	18586.5
7.5°	12833.2	15076.9	19248.6	21536.5	22268.8
10°	12884.8	16768.9	22039.9	23682.4	23959.1
12.5°	12949.0	18561.4	23575.9	23516.0	23167.0
15°	13055.5	20334.4	23765.0	22176.4	21655.0
17.5°	13167.6	21834.4	22939.8	20718.3	20264.2
20°	13349.6	22947.9	21656.1	19422.1	18906.2
22.5°	13612.3	23560.1	20310.0	18249.9	17913.3
25°	13951.0	23599.8	18973.0	17177.2	16753.2
27.5°	14405.0	23052.3	17691.5	16126.3	15678.3
30°	15022.6	22004.1	16500.8	14858.9	14303.3
32.5°	15861.4	20495.3	15273.2	13329.0	12706.0
35°	16898.9	18899.0	13822.2	11510.9	10837.8
37.5°	18030.8	17126.7	12061.1	9901.1	9509.0
40°	19248.6	15300.4	9973.9	8394.5	8114.0
42.5°	20199.0	13314.8	8035.1	6976.1	6677.5
45°	20683.5	10784.0	6367.1	5602.7	5367.3
47.5°	20494.8	8371.1	5047.6	4451.7	4381.0
50°	19393.8	6181.1	4040.7	3667.1	3637.8
52.5°	17672.5	4607.2	3337.7	3106.6	3056.1
55°	15296.0	3656.8	2898.4	2686.3	2678.2
57.5°	12842.4	3106.6	2630.9	2466.7	2409.6
60°	10225.1	2770.0	2428.1	2242.7	2126.9
62.5°	8015.1	2534.7	2279.2	2027.4	1919.2
65°	6132.2	2315.0	2132.3	1824.6	1731.7
67.5°	4571.3	2105.7	1952.9	1611.5	1557.1
70°	3330.6	1891.0	1748.5	1433.2	1390.2
72.5°	2373.8	1676.7	1544.0	1265.7	1218.4
75°	1632.7	1439.7	1320.6	1089.6	1045.5
77.5°	1101.5	1197.7	1100.5	930.2	911.8
80°	735.6	949.8	890.1	788.3	776.9
82.5°	446.4	689.4	702.4	641.0	610.0
85°	243.0	446.4	526.3	479.5	435.0
87.5°	95.1	247.4	362.6	325.7	306.7
90°	4.3	29.6	40.9	53.9	60.0
92.5°	14.8	39.1	62.6	88.7	100.0
95°	46.1	96.5	149.5	198.2	224.3
97.5°	233.9	253.0	272.1	329.5	358.2
100°	479.9	509.5	411.2	434.7	442.5
102.5°	741.6	737.3	537.3	481.7	474.7
105°	872.1	862.5	733.8	522.5	479.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	702.5	712.9	699.0	679.0	651.2
115°	601.7	607.7	607.7	606.0	600.8
117.5°	514.7	515.6	519.1	518.2	519.1
120°	426.0	435.6	443.4	439.1	433.9
122.5°	357.3	367.8	373.0	371.3	366.0
125°	293.9	309.5	315.6	314.7	312.1
127.5°	248.7	260.0	268.7	269.5	268.7
130°	216.5	223.4	232.1	233.0	233.9
132.5°	192.1	198.2	204.3	207.8	206.9
135°	173.9	177.4	183.5	185.2	186.9
137.5°	159.1	161.7	166.9	169.5	169.5
140°	146.1	149.5	153.9	155.6	156.5
142.5°	134.8	138.2	141.7	143.5	143.5
145°	126.1	129.5	132.2	133.0	133.9
147.5°	118.2	121.7	123.5	125.2	125.2
150°	112.2	113.9	116.5	117.4	118.2
152.5°	106.1	107.8	110.4	111.3	111.3
155°	100.9	102.6	104.3	105.2	105.2
157.5°	96.5	98.2	100.0	100.9	100.9
160°	93.0	93.9	95.6	96.5	96.5
162.5°	89.6	90.4	91.3	92.2	92.2
165°	86.9	87.8	88.7	88.7	88.7
167.5°	84.3	84.3	85.2	86.1	86.1
170°	81.7	82.6	82.6	83.5	83.5
172.5°	80.0	80.9	80.9	80.9	81.7
175°	78.2	79.1	79.1	80.0	80.0
177.5°	78.2	78.2	78.2	78.2	78.2
180°	78.2	78.2	78.2	78.2	78.2



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	875.5	879.0	811.2	633.8	527.8
110°	807.7	815.5	776.4	709.5	624.3



(END OF REPORT)