

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: P830066

Luminaire Tested: **OHBL-24HE-N-UNV-L950-CD**

Issue Date: 5/3/2024



**Test Information**

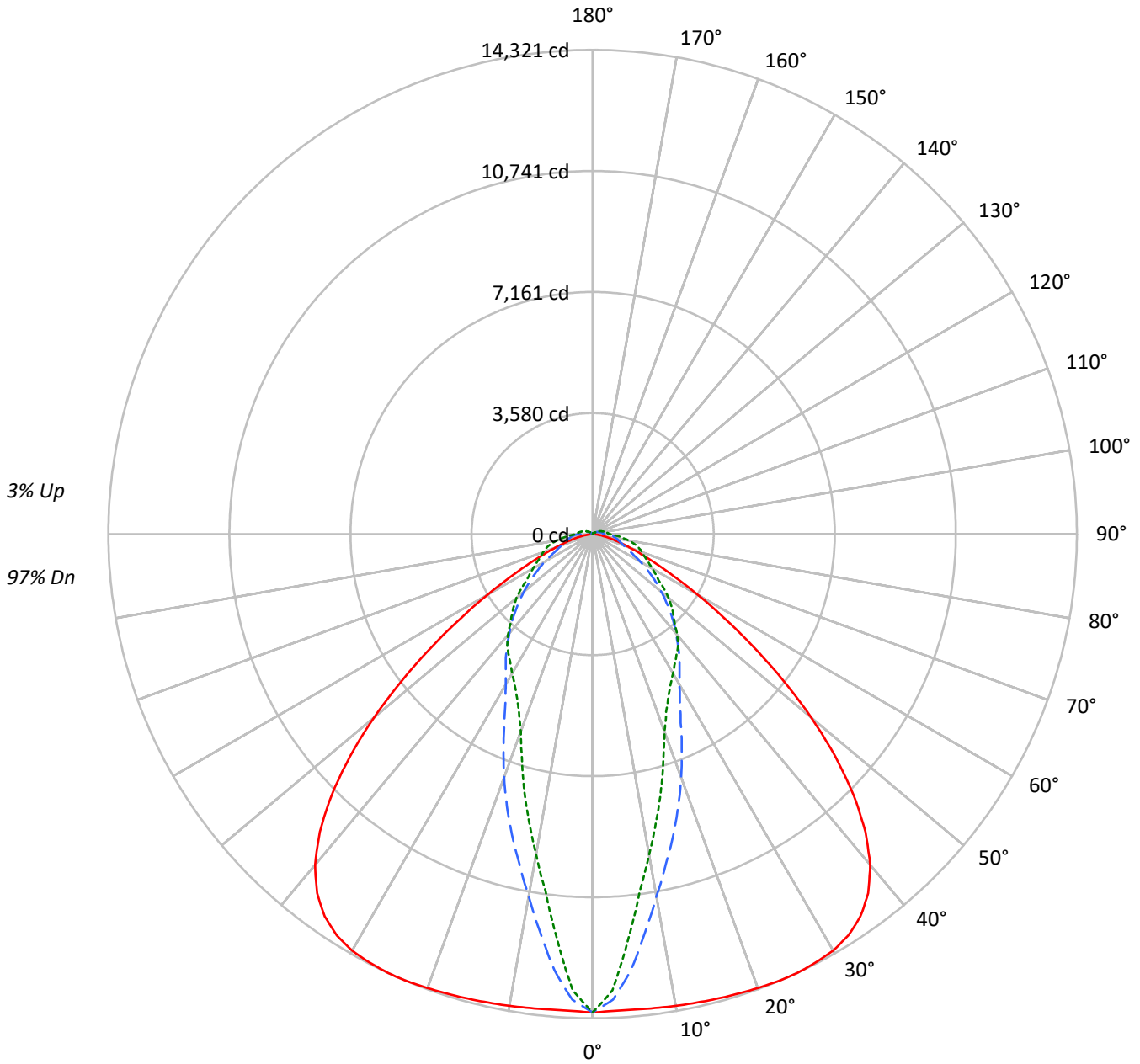
Test Method: LM-79-08  
Report Number: P830066  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-24HE-N-UNV-L950-CD  
Description: 24000 LUMEN OHBL HE LED LUMINAIRE WITH 90CRI, 5000K LEDS AND NARROW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20880.0 lumens  
Efficiency: N/A  
Efficacy: 157.0 lumens/watt  
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78  
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 133  
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

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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20				
RC	80				70				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	109	109	109	104	104	104	99	99	99	99	99	99	97
1	109	104	100	97	106	102	98	95	97	94	91	92	90	88	88	86	85	85	85	85	82
2	100	93	86	81	97	90	85	80	86	82	78	83	79	75	79	76	73	73	73	73	71
3	92	83	75	69	90	81	74	69	78	72	67	74	70	65	72	67	64	64	64	64	62
4	85	74	66	60	83	73	66	60	70	64	59	67	62	57	65	60	56	56	56	56	54
5	79	67	59	53	77	66	59	53	64	57	52	62	56	51	59	54	50	50	50	50	48
6	74	62	53	47	72	60	53	47	58	52	46	56	50	46	55	49	45	45	45	45	43
7	69	56	48	43	67	55	48	42	54	47	42	52	46	41	50	45	41	41	41	41	39
8	65	52	44	39	63	51	44	39	50	43	38	48	42	38	47	41	37	37	37	37	35
9	61	48	41	35	59	47	40	35	46	40	35	45	39	35	44	38	34	34	34	34	32
10	57	45	37	33	56	44	37	32	43	37	32	42	36	32	41	35	32	32	32	32	30

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

	0°	45°	90°
0°	22374	22374	22374
5°	22328	20384	18956
10°	22580	17178	15210
15°	23021	14698	12492
20°	23668	12434	10110
25°	24486	10297	8865
30°	25333	8875	8241
35°	25860	8093	7858
40°	25417	7315	7462
45°	23383	6615	6915
50°	19728	5849	6498
55°	14990	5128	5791
60°	10505	4403	5553
65°	7066	3798	5448
70°	4826	3571	5733
75°	3349	3694	6151
80°	2305	4111	6375
85°	1349	5189	6777



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1190.9	5.7
10°-20°	2801.5	13.4
20°-30°	3511.7	16.8
30°-40°	3726.3	17.8
40°-50°	3369.2	16.1
50°-60°	2442.9	11.7
60°-70°	1533.0	7.3
70°-80°	1014.5	4.9
80°-90°	584.5	2.8
90°-100°	283.2	1.4
100°-110°	195.4	0.9
110°-120°	120.6	0.6
120°-130°	58.4	0.3
130°-140°	26.9	0.1
140°-150°	14.7	0.1
150°-160°	6.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
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0°-30°	7504.1	35.9
0°-40°	11230.5	53.8
0°-60°	17042.5	81.6
0°-90°	20174.5	96.6
90°-120°	599.2	2.9
90°-150°	699.1	3.3
90°-180°	706.0	3.4
0°-180°	20880.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	14147	14147	14147	14147	14147	
5°	14119	13757	12949	12348	12037	###
15°	14227	11596	9210	8190	7819	4035
25°	14321	8966	6167	5473	5300	6616
35°	13808	5961	4476	4336	4334	8584
45°	10916	3776	3244	3322	3378	8316
55°	5779	2340	2117	2296	2378	5222
65°	2067	1357	1225	1570	1745	2151
75°	638	731	823	1278	1354	711
85°	112	303	602	838	769	134
90°	0	127	349	492	496	7
95°	5	89	307	417	436	5
105°	11	59	224	296	304	11
115°	15	42	151	188	192	15
125°	16	22	77	97	96	14
135°	14	16	34	52	52	11
145°	16	18	20	31	30	10
155°	16	20	22	23	20	5
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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CATALOG NUMBER: OHBL-24HE-N-UNV-L950-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	14147.3	14147.3	14147.3	14147.3	14147.3
2.5°	14117.7	14036.9	13785.1	13631.6	13502.4
5°	14119.0	13756.8	12949.0	12348.4	12037.4
7.5°	14139.2	13334.0	11878.5	11002.0	10660.0
10°	14170.2	12810.3	10879.4	9945.0	9625.9
12.5°	14193.1	12220.5	10000.2	9040.2	8690.1
15°	14226.8	11595.8	9209.8	8190.5	7818.9
17.5°	14257.7	11007.4	8428.9	7363.8	6950.5
20°	14288.7	10373.2	7647.9	6550.6	6209.9
22.5°	14318.3	9704.0	6885.8	5919.1	5686.1
25°	14321.0	8966.1	6166.8	5473.4	5299.7
27.5°	14286.0	8201.3	5583.8	5100.4	4992.7
30°	14225.4	7459.4	5131.4	4831.1	4754.4
32.5°	14074.6	6702.7	4781.3	4571.3	4526.8
35°	13808.0	5960.8	4475.7	4335.6	4334.3
37.5°	13387.9	5302.4	4144.4	4120.2	4149.8
40°	12767.2	4726.1	3830.7	3895.3	3895.3
42.5°	11939.1	4225.2	3546.6	3612.6	3595.1
45°	10915.8	3775.5	3243.6	3321.7	3378.3
47.5°	9729.6	3379.6	2933.9	3084.8	3162.8
50°	8439.6	3002.6	2651.2	2843.7	2932.6
52.5°	7087.8	2653.9	2375.2	2596.0	2667.3
55°	5779.0	2340.2	2116.6	2295.7	2377.9
57.5°	4594.1	2041.2	1863.5	2033.2	2202.8
60°	3574.9	1784.1	1625.2	1867.5	2037.2
62.5°	2730.6	1555.2	1401.7	1712.7	1882.4
65°	2066.8	1357.2	1225.3	1570.0	1745.0
67.5°	1557.9	1186.2	1087.9	1466.3	1637.3
70°	1170.1	1020.6	977.5	1401.7	1555.2
72.5°	864.4	868.5	890.0	1345.1	1462.3
75°	638.2	731.1	822.7	1277.8	1354.5
77.5°	456.5	605.9	762.1	1197.0	1223.9
80°	316.4	494.2	698.8	1090.6	1067.7
82.5°	197.9	395.9	642.3	973.5	910.2
85°	111.8	303.0	601.9	837.5	768.8
87.5°	49.8	226.2	526.5	653.0	609.9
90°	0.0	126.6	348.7	491.5	495.5
92.5°	2.7	105.0	321.8	449.7	463.2
95°	5.4	88.9	307.0	417.4	436.3
97.5°	6.7	78.1	288.1	387.8	403.9
100°	8.1	70.0	265.3	356.8	370.3
102.5°	9.4	64.6	243.7	324.5	335.3
105°	10.8	59.2	223.5	296.2	304.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	13.5	45.8	168.3	212.7	219.5
115°	14.8	41.7	150.8	188.5	192.5
117.5°	16.2	36.4	132.0	165.6	167.0
120°	16.2	32.3	113.1	141.4	141.4
122.5°	16.2	26.9	94.3	117.1	115.8
125°	16.2	21.5	76.7	96.9	95.6
127.5°	14.8	17.5	61.9	80.8	79.4
130°	14.8	17.5	49.8	68.7	68.7
132.5°	13.5	16.2	40.4	59.2	59.2
135°	13.5	16.2	33.7	52.5	52.5
137.5°	13.5	17.5	28.3	45.8	45.8
140°	13.5	16.2	24.2	40.4	40.4
142.5°	14.8	16.2	21.5	35.0	35.0
145°	16.2	17.5	20.2	31.0	29.6
147.5°	16.2	18.9	20.2	26.9	25.6
150°	16.2	20.2	20.2	24.2	22.9
152.5°	16.2	20.2	20.2	22.9	21.5
155°	16.2	20.2	21.5	22.9	20.2
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°	10.8	55.2	204.7	265.3	274.7
110°	12.1	49.8	187.2	237.0	246.4



(END OF REPORT)