

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: P830517

Luminaire Tested: **OHBL-48HE-W-UNV-L840-CD**

Issue Date: 5/3/2024



**Test Information**

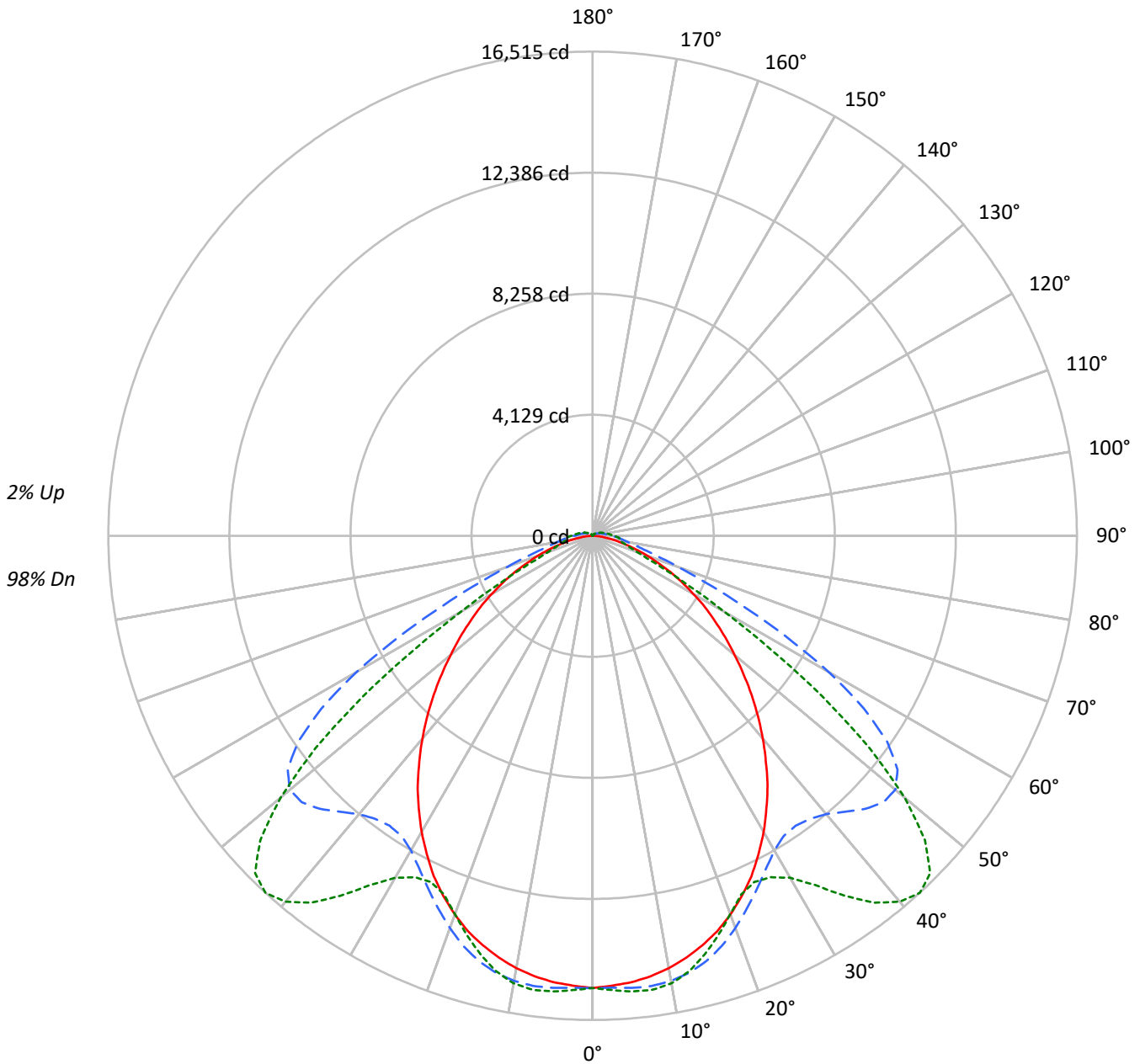
Test Method: LM-79-08  
Report Number: P830517  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-48HE-W-UNV-L840-CD  
Description: 48000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND WIDE LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 46189.1 lumens  
Efficiency: N/A  
Efficacy: 173.6 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62  
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 266  
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									
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	105	105	105	100	100	100	98																			
1	109	104	100	96	106	102	98	95	97	94	91	93	90	88	89	87	85	83																			
2	99	91	85	79	96	89	83	78	85	80	76	82	77	74	78	75	72	70																			
3	90	80	72	66	88	78	71	65	75	69	64	72	67	62	69	65	61	59																			
4	83	71	62	56	80	69	61	55	67	60	54	64	58	53	62	57	52	50																			
5	76	63	54	48	74	62	54	47	60	52	47	57	51	46	55	50	45	43																			
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	50	44	40	38																			
7	65	51	43	36	63	50	42	36	49	41	36	47	40	35	45	40	35	33																			
8	60	47	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29																			
9	56	43	34	29	55	42	34	29	41	34	28	39	33	28	38	32	28	26																			
10	52	39	31	26	51	39	31	26	38	31	26	36	30	26	35	30	25	24																			

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

	0°	45°	90°
0°	24396	24396	24396
5°	24169	24373	24570
10°	23866	24347	24496
15°	23400	23955	23608
20°	22762	23143	22352
25°	21909	22156	21801
30°	20774	21426	23343
35°	19479	21834	27166
40°	17976	23662	31215
45°	16405	26859	33321
50°	14766	29723	30760
55°	13226	29714	23277
60°	11658	25167	14061
65°	10002	17403	8385
70°	8126	11273	5925
75°	6182	8100	5320
80°	4438	7146	5684
85°	3012	7919	8009



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1474.2	3.2
10°-20°	4174.4	9.0
20°-30°	6108.5	13.2
30°-40°	7933.1	17.2
40°-50°	9687.3	21.0
50°-60°	8531.2	18.5
60°-70°	4445.7	9.6
70°-80°	1906.5	4.1
80°-90°	915.6	2.0
90°-100°	430.1	0.9
100°-110°	267.4	0.6
110°-120°	158.1	0.3
120°-130°	85.9	0.2
130°-140°	43.1	0.1
140°-150°	20.7	0.0
150°-160°	7.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	11757.0	25.5
0°-40°	19690.1	42.6
0°-60°	37908.7	82.1
0°-90°	45176.4	97.8
90°-120°	855.6	1.9
90°-150°	1005.4	2.2
90°-180°	1013.0	2.2
0°-180°	46189.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	15426	15426	15426	15426	15426	
5°	15283	15400	15483	15619	15603	###
15°	14461	14867	15010	14897	14777	4072
25°	12814	13499	13270	13020	13033	5880
35°	10401	11499	12075	14082	14984	6483
45°	7658	9635	13170	15946	16278	5905
55°	5099	8440	12264	10754	9559	4576
65°	2926	5848	5615	3122	2686	2894
75°	1178	2736	1804	1235	1172	1285
85°	250	975	919	899	909	278
90°	3	353	606	692	709	17
95°	7	206	483	566	582	5
105°	13	116	313	376	383	14
115°	20	67	193	236	243	21
125°	23	33	113	146	150	20
135°	20	20	53	90	93	15
145°	27	20	23	43	50	16
155°	27	27	20	20	20	8
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	15426.3	15426.3	15426.3	15426.3	15426.3
2.5°	15359.7	15426.3	15429.6	15522.8	15512.8
5°	15283.2	15399.7	15482.9	15619.3	15602.7
7.5°	15156.7	15339.7	15486.2	15636.0	15622.6
10°	14977.0	15226.6	15419.6	15542.8	15502.8
12.5°	14744.0	15073.5	15263.2	15289.8	15213.3
15°	14461.1	14867.1	15010.3	14897.1	14777.3
17.5°	14141.6	14617.5	14667.4	14421.2	14271.4
20°	13742.2	14284.7	14234.8	13895.3	13728.9
22.5°	13299.6	13918.6	13758.8	13402.7	13243.0
25°	12813.6	13499.2	13269.6	13020.0	13033.3
27.5°	12244.5	13023.3	12800.3	12913.5	13126.5
30°	11665.4	12524.1	12387.6	13046.6	13466.0
32.5°	11029.7	12011.5	12134.7	13436.0	14121.6
35°	10400.7	11499.0	12074.8	14081.7	14983.6
37.5°	9705.1	10979.8	12171.3	14827.2	15772.4
40°	9029.5	10473.9	12390.9	15496.2	16294.9
42.5°	8340.5	10021.3	12760.4	15892.2	16514.6
45°	7658.2	9635.2	13169.8	15945.5	16278.3
47.5°	6975.9	9309.0	13452.7	15522.8	15369.7
50°	6317.0	9019.5	13472.6	14507.7	13882.0
52.5°	5701.2	8753.2	13106.5	12890.2	11918.3
55°	5098.8	8440.4	12264.5	10753.5	9558.6
57.5°	4549.7	8007.7	10966.5	8457.0	7152.3
60°	3967.2	7421.9	9289.1	6187.2	5158.7
62.5°	3431.4	6693.0	7408.6	4306.7	3707.6
65°	2925.5	5847.7	5614.7	3121.9	2685.9
67.5°	2389.7	4972.4	4143.6	2276.5	1996.9
70°	1970.3	4160.3	3085.3	1770.6	1607.5
72.5°	1541.0	3388.1	2306.5	1437.8	1347.9
75°	1178.2	2735.8	1803.9	1234.8	1171.5
77.5°	868.7	2163.3	1451.1	1091.7	1031.7
80°	609.1	1704.0	1214.8	975.2	951.9
82.5°	409.4	1318.0	1035.1	928.6	931.9
85°	249.6	975.2	918.6	898.6	908.6
87.5°	119.8	692.3	788.8	818.7	828.7
90°	3.3	352.8	605.7	692.3	708.9
92.5°	0.0	269.6	532.5	619.0	635.7
95°	6.7	206.3	482.6	565.8	582.4
97.5°	6.7	169.7	432.7	519.2	529.2
100°	10.0	146.4	386.1	469.3	479.3
102.5°	10.0	129.8	346.1	419.4	426.0
105°	13.3	116.5	312.9	376.1	382.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	20.0	79.9	219.7	266.3	272.9
115°	20.0	66.6	193.0	236.3	243.0
117.5°	23.3	59.9	169.7	209.7	213.0
120°	23.3	49.9	146.4	186.4	189.7
122.5°	23.3	39.9	129.8	166.4	169.7
125°	23.3	33.3	113.2	146.4	149.8
127.5°	20.0	23.3	96.5	129.8	133.1
130°	20.0	20.0	79.9	113.2	119.8
132.5°	20.0	20.0	66.6	99.8	106.5
135°	20.0	20.0	53.3	89.9	93.2
137.5°	20.0	20.0	43.3	76.5	83.2
140°	20.0	20.0	33.3	66.6	69.9
142.5°	23.3	20.0	30.0	56.6	59.9
145°	26.6	20.0	23.3	43.3	49.9
147.5°	26.6	23.3	23.3	36.6	39.9
150°	26.6	26.6	20.0	26.6	33.3
152.5°	26.6	26.6	20.0	20.0	26.6
155°	26.6	26.6	20.0	20.0	20.0
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°	16.6	103.2	279.6	336.1	342.8
110°	16.6	89.9	246.3	299.5	306.2



(END OF REPORT)