

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: P830512

Luminaire Tested: **OHBL-48HE-W-UNV-L735-CD**

Issue Date: 5/3/2024



**Test Information**

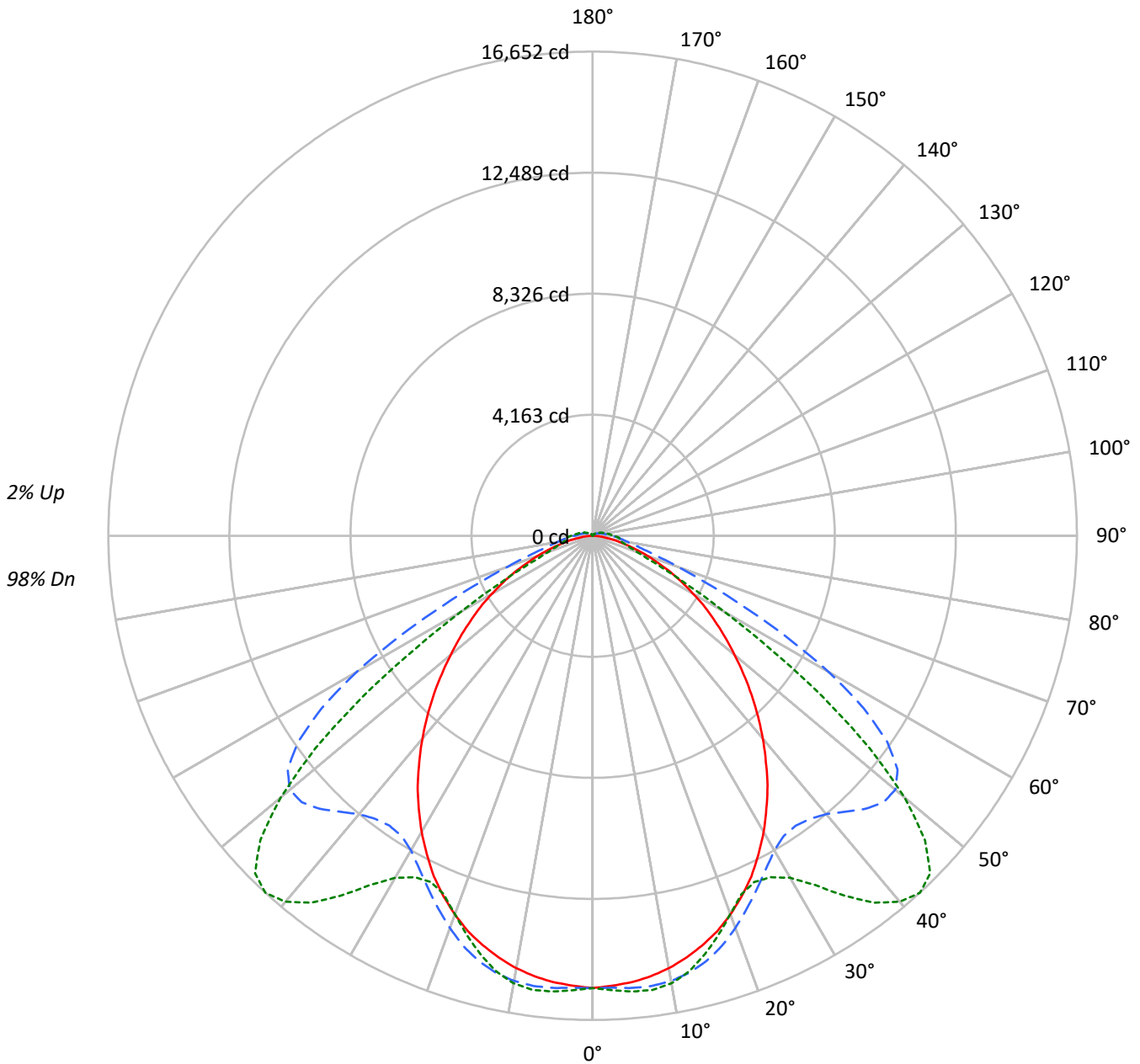
Test Method: LM-79-08  
Report Number: P830512  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-48HE-W-UNV-L735-CD  
Description: 48000 LUMEN OHBL HE LED LUMINAIRE WITH 70CRI, 3500K LEDS AND WIDE LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 46574.0 lumens  
Efficiency: N/A  
Efficacy: 175.1 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°	24600	24600	24600
5°	24371	24576	24775
10°	24064	24550	24700
15°	23595	24155	23805
20°	22952	23335	22538
25°	22091	22341	21983
30°	20947	21604	23537
35°	19641	22016	27393
40°	18126	23859	31475
45°	16542	27082	33599
50°	14889	29971	31016
55°	13336	29962	23471
60°	11755	25377	14178
65°	10085	17548	8455
70°	8194	11366	5975
75°	6233	8168	5364
80°	4474	7206	5731
85°	3037	7985	8076



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1486.4	3.2
10°-20°	4209.2	9.0
20°-30°	6159.4	13.2
30°-40°	7999.3	17.2
40°-50°	9768.1	21.0
50°-60°	8602.3	18.5
60°-70°	4482.7	9.6
70°-80°	1922.4	4.1
80°-90°	923.2	2.0
90°-100°	433.7	0.9
100°-110°	269.6	0.6
110°-120°	159.4	0.3
120°-130°	86.6	0.2
130°-140°	43.5	0.1
140°-150°	20.9	0.0
150°-160°	7.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	11855.0	25.5
0°-40°	19854.2	42.6
0°-60°	38224.7	82.1
0°-90°	45553.0	97.8
90°-120°	862.7	1.9
90°-150°	1013.7	2.2
90°-180°	1021.0	2.2
0°-180°	46574.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	15555	15555	15555	15555	15555	
5°	15411	15528	15612	15750	15733	###
15°	14582	14991	15135	15021	14900	4106
25°	12920	13612	13380	13128	13142	5929
35°	10487	11595	12175	14199	15108	6537
45°	7722	9716	13280	16078	16414	5954
55°	5141	8511	12367	10843	9638	4614
65°	2950	5896	5662	3148	2708	2918
75°	1188	2759	1819	1245	1181	1295
85°	252	983	926	906	916	281
90°	3	356	611	698	715	17
95°	7	208	487	570	587	5
105°	13	118	316	379	386	14
115°	20	67	195	238	245	21
125°	24	34	114	148	151	20
135°	20	20	54	91	94	16
145°	27	20	24	44	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°	15554.9	15554.9	15554.9	15554.9	15554.9
2.5°	15487.7	15554.9	15558.2	15652.2	15642.1
5°	15410.6	15528.0	15611.9	15749.5	15732.7
7.5°	15283.0	15467.6	15615.3	15766.3	15752.9
10°	15101.8	15353.5	15548.2	15672.3	15632.1
12.5°	14866.9	15199.1	15390.4	15417.3	15340.1
15°	14581.6	14991.1	15135.4	15021.3	14900.5
17.5°	14259.5	14739.4	14789.7	14541.4	14390.3
20°	13856.8	14403.8	14353.4	14011.1	13843.3
22.5°	13410.4	14034.6	13873.5	13514.4	13353.4
25°	12920.4	13611.8	13380.2	13128.5	13141.9
27.5°	12346.6	13131.9	12907.0	13021.1	13235.9
30°	11762.6	12628.5	12490.9	13155.4	13578.2
32.5°	11121.6	12111.7	12235.8	13548.0	14239.3
35°	10487.4	11594.8	12175.4	14199.1	15108.5
37.5°	9786.0	11071.3	12272.7	14950.8	15903.9
40°	9104.7	10561.2	12494.2	15625.3	16430.8
42.5°	8410.0	10104.8	12866.7	16024.7	16652.3
45°	7722.1	9715.5	13279.5	16078.4	16414.0
47.5°	7034.1	9386.6	13564.8	15652.2	15497.8
50°	6369.6	9094.6	13584.9	14628.6	13997.7
52.5°	5748.8	8826.2	13215.8	12997.6	12017.7
55°	5141.3	8510.7	12366.7	10843.1	9638.3
57.5°	4587.6	8074.4	11057.9	8527.5	7212.0
60°	4000.3	7483.8	9366.5	6238.7	5201.7
62.5°	3460.0	6748.8	7470.4	4342.6	3738.5
65°	2949.9	5896.4	5661.5	3147.9	2708.3
67.5°	2409.6	5013.8	4178.2	2295.5	2013.6
70°	1986.7	4194.9	3111.0	1785.4	1620.9
72.5°	1553.8	3416.4	2325.7	1449.8	1359.2
75°	1188.0	2758.6	1818.9	1245.1	1181.3
77.5°	875.9	2181.4	1463.2	1100.8	1040.3
80°	614.1	1718.3	1224.9	983.3	959.8
82.5°	412.8	1329.0	1043.7	936.3	939.7
85°	251.7	983.3	926.2	906.1	916.2
87.5°	120.8	698.0	795.4	825.6	835.6
90°	3.4	355.7	610.8	698.0	714.8
92.5°	0.0	271.8	537.0	624.2	641.0
95°	6.7	208.1	486.6	570.5	587.3
97.5°	6.7	171.2	436.3	523.5	533.6
100°	10.1	147.7	389.3	473.2	483.3
102.5°	10.1	130.9	349.0	422.9	429.6
105°	13.4	117.5	315.5	379.2	385.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	20.1	80.5	221.5	268.5	275.2
115°	20.1	67.1	194.6	238.3	245.0
117.5°	23.5	60.4	171.2	211.4	214.8
120°	23.5	50.3	147.7	187.9	191.3
122.5°	23.5	40.3	130.9	167.8	171.2
125°	23.5	33.6	114.1	147.7	151.0
127.5°	20.1	23.5	97.3	130.9	134.2
130°	20.1	20.1	80.5	114.1	120.8
132.5°	20.1	20.1	67.1	100.7	107.4
135°	20.1	20.1	53.7	90.6	94.0
137.5°	20.1	20.1	43.6	77.2	83.9
140°	20.1	20.1	33.6	67.1	70.5
142.5°	23.5	20.1	30.2	57.1	60.4
145°	26.8	20.1	23.5	43.6	50.3
147.5°	26.8	23.5	23.5	36.9	40.3
150°	26.8	26.8	20.1	26.8	33.6
152.5°	26.8	26.8	20.1	20.1	26.8
155°	26.8	26.8	20.1	20.1	20.1
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°	16.8	104.0	281.9	339.0	345.7
110°	16.8	90.6	248.3	302.0	308.7



(END OF REPORT)