

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: P830513

Luminaire Tested: **OHBL-48HE-W-UNV-L740-CD**

Issue Date: 5/3/2024



**Test Information**

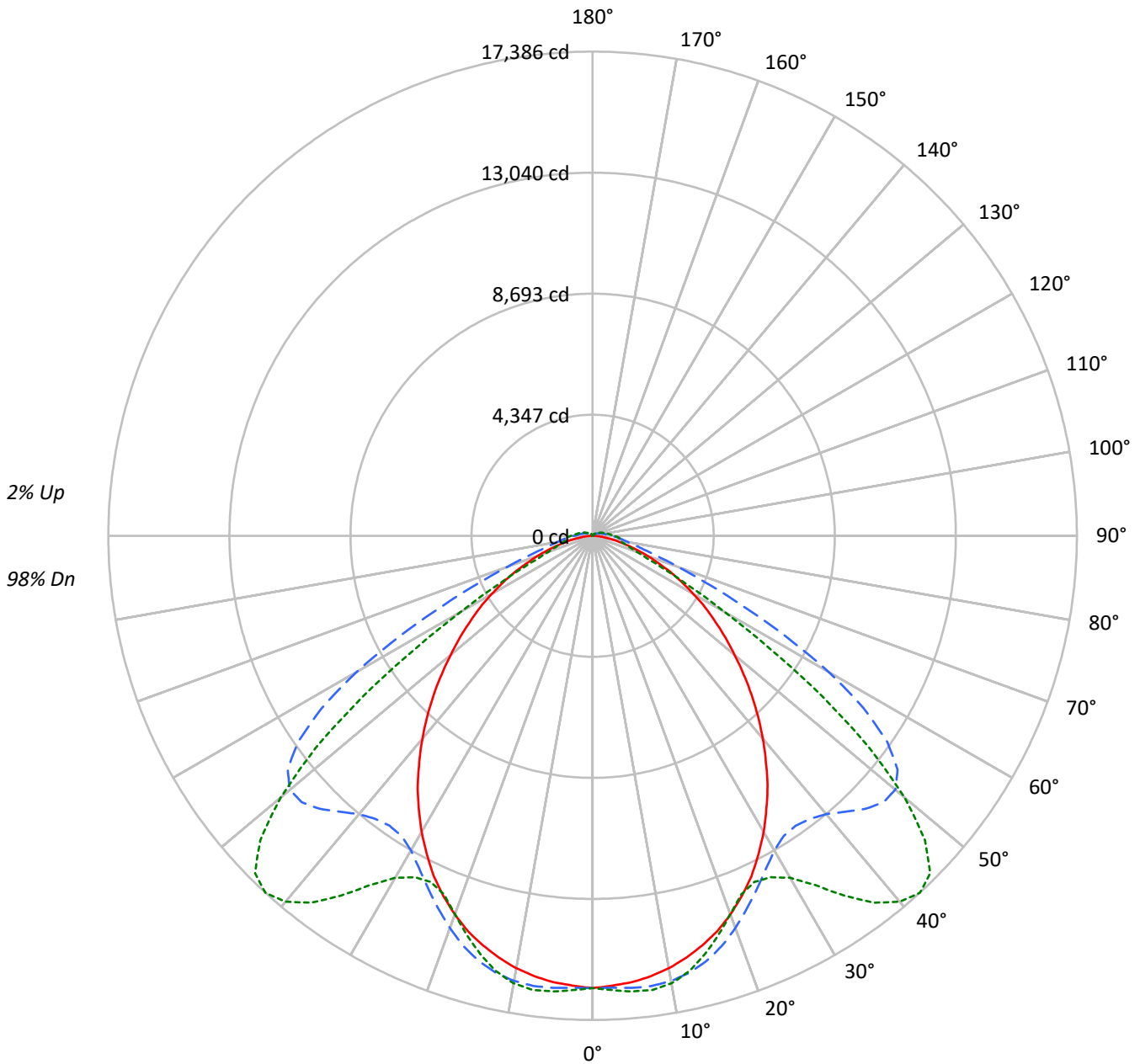
Test Method: LM-79-08  
Report Number: P830513  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-48HE-W-UNV-L740-CD  
Description: 48000 LUMEN OHBL HE LED LUMINAIRE WITH 70CRI, 4000K LEDS AND WIDE LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 48625.9 lumens  
Efficiency: N/A  
Efficacy: 182.8 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°	25683	25683	25683
5°	25444	25659	25867
10°	25125	25632	25788
15°	24635	25219	24854
20°	23964	24364	23531
25°	23065	23325	22951
30°	21870	22556	24574
35°	20506	22986	28599
40°	18925	24910	32862
45°	17270	28276	35079
50°	15545	31292	32382
55°	13924	31282	24505
60°	12273	26495	14803
65°	10530	18321	8828
70°	8555	11867	6238
75°	6508	8528	5600
80°	4672	7523	5984
85°	3171	8337	8431



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1551.9	3.2
10°-20°	4394.6	9.0
20°-30°	6430.8	13.2
30°-40°	8351.7	17.2
40°-50°	10198.5	21.0
50°-60°	8981.3	18.5
60°-70°	4680.2	9.6
70°-80°	2007.0	4.1
80°-90°	963.9	2.0
90°-100°	452.8	0.9
100°-110°	281.5	0.6
110°-120°	166.4	0.3
120°-130°	90.4	0.2
130°-140°	45.4	0.1
140°-150°	21.8	0.0
150°-160°	7.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	12377.3	25.5
0°-40°	20729.0	42.6
0°-60°	39908.8	82.1
0°-90°	47560.0	97.8
90°-120°	900.7	1.9
90°-150°	1058.4	2.2
90°-180°	1066.0	2.2
0°-180°	48625.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	16240	16240	16240	16240	16240	
5°	16090	16212	16300	16443	16426	###
15°	15224	15652	15802	15683	15557	4287
25°	13490	14212	13970	13707	13721	6191
35°	10949	12106	12712	14825	15774	6825
45°	8062	10144	13865	16787	17137	6217
55°	5368	8886	12912	11321	10063	4818
65°	3080	6156	5911	3287	2828	3047
75°	1240	2880	1899	1300	1233	1353
85°	263	1027	967	946	956	293
90°	4	371	638	729	746	18
95°	7	217	508	596	613	5
105°	14	123	329	396	403	15
115°	21	70	203	249	256	22
125°	24	35	119	154	158	21
135°	21	21	56	95	98	16
145°	28	21	24	46	53	16
155°	28	28	21	21	21	9
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°	16240.2	16240.2	16240.2	16240.2	16240.2
2.5°	16170.1	16240.2	16243.7	16341.8	16331.3
5°	16089.5	16212.2	16299.8	16443.4	16425.9
7.5°	15956.4	16149.1	16303.3	16460.9	16446.9
10°	15767.2	16030.0	16233.2	16362.8	16320.8
12.5°	15521.9	15868.8	16068.5	16096.5	16016.0
15°	15224.1	15651.6	15802.2	15683.1	15557.0
17.5°	14887.7	15388.8	15441.3	15182.0	15024.4
20°	14467.3	15038.4	14985.8	14628.4	14453.2
22.5°	14001.3	14653.0	14484.8	14109.9	13941.7
25°	13489.7	14211.5	13969.7	13706.9	13721.0
27.5°	12890.5	13710.4	13475.7	13594.8	13819.1
30°	12280.9	13184.9	13041.2	13735.0	14176.4
32.5°	11611.7	12645.3	12774.9	14144.9	14866.7
35°	10949.4	12105.7	12711.9	14824.7	15774.2
37.5°	10217.1	11559.1	12813.5	15609.5	16604.6
40°	9505.9	11026.5	13044.7	16313.8	17154.7
42.5°	8780.6	10550.0	13433.6	16730.7	17385.9
45°	8062.3	10143.6	13864.6	16786.8	17137.2
47.5°	7344.0	9800.2	14162.4	16341.8	16180.6
50°	6650.2	9495.3	14183.5	15273.1	14614.4
52.5°	6002.0	9215.0	13798.0	13570.3	12547.2
55°	5367.8	8885.7	12911.6	11320.8	10063.0
57.5°	4789.7	8430.2	11545.1	8903.2	7529.7
60°	4176.6	7813.5	9779.2	6513.6	5430.9
62.5°	3612.4	7046.2	7799.5	4533.9	3903.3
65°	3079.9	6156.2	5910.9	3286.6	2827.6
67.5°	2515.7	5234.7	4362.3	2396.6	2102.3
70°	2074.3	4379.8	3248.0	1864.0	1692.3
72.5°	1622.3	3566.9	2428.1	1513.6	1419.0
75°	1240.4	2880.1	1899.1	1299.9	1233.3
77.5°	914.5	2277.5	1527.7	1149.3	1086.2
80°	641.2	1794.0	1278.9	1026.6	1002.1
82.5°	431.0	1387.5	1089.7	977.6	981.1
85°	262.8	1026.6	967.1	946.0	956.5
87.5°	126.1	728.8	830.4	861.9	872.5
90°	3.5	371.4	637.7	728.8	746.3
92.5°	0.0	283.8	560.6	651.7	669.2
95°	7.0	217.2	508.1	595.6	613.2
97.5°	7.0	178.7	455.5	546.6	557.1
100°	10.5	154.2	406.4	494.0	504.5
102.5°	10.5	136.6	364.4	441.5	448.5
105°	14.0	122.6	329.4	395.9	402.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	21.0	84.1	231.3	280.3	287.3
115°	21.0	70.1	203.2	248.8	255.8
117.5°	24.5	63.1	178.7	220.7	224.2
120°	24.5	52.6	154.2	196.2	199.7
122.5°	24.5	42.0	136.6	175.2	178.7
125°	24.5	35.0	119.1	154.2	157.7
127.5°	21.0	24.5	101.6	136.6	140.2
130°	21.0	21.0	84.1	119.1	126.1
132.5°	21.0	21.0	70.1	105.1	112.1
135°	21.0	21.0	56.1	94.6	98.1
137.5°	21.0	21.0	45.5	80.6	87.6
140°	21.0	21.0	35.0	70.1	73.6
142.5°	24.5	21.0	31.5	59.6	63.1
145°	28.0	21.0	24.5	45.5	52.6
147.5°	28.0	24.5	24.5	38.5	42.0
150°	28.0	28.0	21.0	28.0	35.0
152.5°	28.0	28.0	21.0	21.0	28.0
155°	28.0	28.0	21.0	21.0	21.0
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°	17.5	108.6	294.3	353.9	360.9
110°	17.5	94.6	259.3	315.3	322.4



(END OF REPORT)