

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: P830502

Luminaire Tested: **OHBL-48HE-NL-UNV-L750-CD**

Issue Date: 5/3/2024



**Test Information**

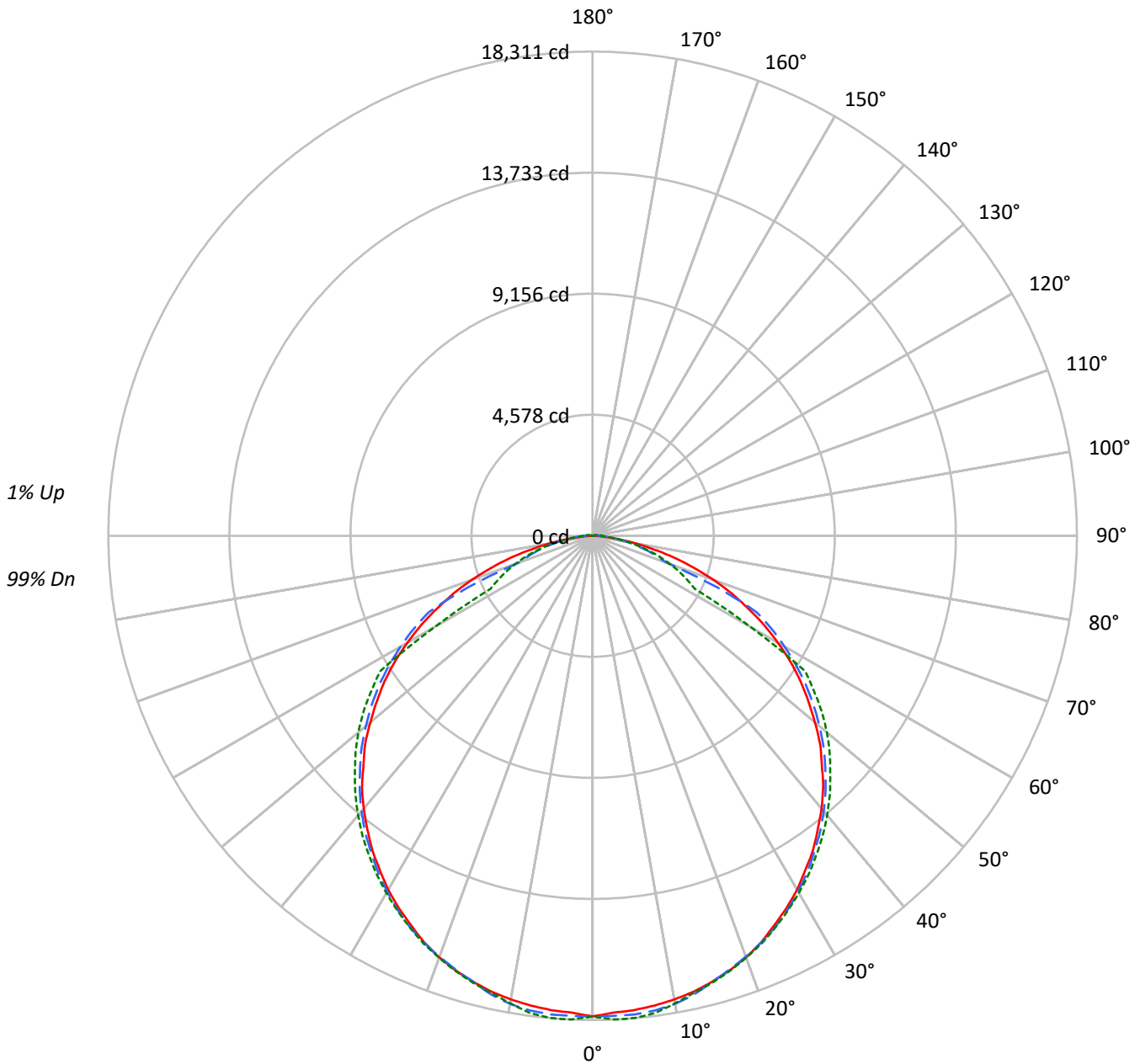
Test Method: LM-79-08  
Report Number: P830502  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P472951)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-48HE-NL-UNV-L750-CD  
Description: 48000 LUMEN OHBL HE LED LUMINAIRE WITH 70CRI, 5000K LEDS AND NO LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 51034.0 lumens  
Efficiency: N/A  
Efficacy: 191.9 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39  
Luminous Opening: Rectangular (W 1.8' x L: 3.78' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 266  
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102					99															
1	109	105	100	97	106	102	99	95	98	95	92	94	91	89	90	88	86					84															
2	99	92	85	79	97	90	84	78	86	81	76	83	78	75	80	76	73					71															
3	91	81	73	66	88	79	72	66	76	70	64	73	68	63	70	66	62					60															
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53					51															
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46					44															
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	45	41					39															
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36					34															
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32					30															
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29					27															
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26					25															

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

	0°	45°	90°
0°	28746	28746	28746
5°	28588	28846	29064
10°	28596	28867	28832
15°	28591	28586	28648
20°	28552	28509	28578
25°	28357	28501	28523
30°	28225	28371	28482
35°	28042	28196	28461
40°	27800	28064	28479
45°	27399	27813	28420
50°	26986	27536	28446
55°	26470	27156	28133
60°	25584	26491	21902
65°	24205	25612	14740
70°	22388	13597	14305
75°	19527	12921	13662
80°	15017	11852	12520
85°	7579	11980	12266



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1726.9	3.4
10°-20°	4944.5	9.7
20°-30°	7523.5	14.7
30°-40°	9147.6	17.9
40°-50°	9618.2	18.8
50°-60°	8782.6	17.2
60°-70°	5630.1	11.0
70°-80°	2659.6	5.2
80°-90°	737.5	1.4
90°-100°	195.3	0.4
100°-110°	53.5	0.1
110°-120°	14.8	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	14194.9	27.8
0°-40°	23342.5	45.7
0°-60°	41743.3	81.8
0°-90°	50770.4	99.5
90°-120°	263.6	0.5
90°-150°	263.6	0.5
90°-180°	264.0	0.5
0°-180°	51034.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	18177	18177	18177	18177	18177	
5°	18008	18078	18171	18270	18308	###
15°	17462	17593	17459	17485	17498	4930
25°	16250	16276	16333	16359	16346	7498
35°	14525	14439	14605	14783	14742	9077
45°	12251	12228	12436	12729	12707	9469
55°	9600	9527	9849	10178	10203	8562
65°	6468	6468	6844	3926	3939	6413
75°	3196	3257	2115	2226	2236	3369
85°	418	530	660	714	676	617
90°	0	179	293	348	341	18
95°	10	92	211	284	284	5
105°	16	35	51	51	48	16
115°	16	22	32	22	3	11
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P830502

CATALOG NUMBER: OHBL-48HE-NL-UNV-L750-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	18177.0	18177.0	18177.0	18177.0	18177.0
2.5°	18049.4	18110.1	18177.0	18263.1	18310.7
5°	18007.8	18078.1	18170.6	18269.5	18307.7
7.5°	17918.7	18017.3	18106.8	18177.0	18199.3
10°	17806.9	17925.1	17976.1	17969.7	17953.8
12.5°	17657.0	17781.6	17765.7	17692.1	17704.9
15°	17462.5	17593.1	17459.4	17484.8	17497.6
17.5°	17232.8	17360.5	17204.1	17255.1	17258.5
20°	16965.1	17060.6	16939.4	16980.9	16980.9
22.5°	16642.9	16709.8	16658.8	16687.5	16693.9
25°	16250.5	16275.9	16333.3	16358.9	16346.1
27.5°	15874.4	15842.3	15954.0	16014.5	15982.4
30°	15456.3	15405.3	15536.0	15634.9	15596.8
32.5°	14977.8	14946.1	15096.0	15213.9	15191.6
35°	14525.0	14438.9	14604.7	14783.3	14741.8
37.5°	13989.1	13938.1	14126.2	14314.6	14292.3
40°	13466.0	13379.9	13593.7	13816.9	13794.6
42.5°	12904.8	12802.5	13035.5	13303.6	13277.9
45°	12250.7	12228.4	12435.8	12729.2	12706.9
47.5°	11670.6	11558.8	11848.9	12132.9	12158.5
50°	10968.5	10927.3	11192.1	11536.5	11561.8
52.5°	10283.0	10254.3	10531.6	10879.4	10924.0
55°	9600.3	9527.0	9849.1	10177.7	10203.4
57.5°	8870.2	8793.5	9122.1	9479.4	9533.4
60°	8088.5	8015.2	8375.5	8707.4	6924.5
62.5°	7307.1	7256.1	7632.6	5406.3	4357.1
65°	6468.3	6468.3	6844.4	3926.2	3939.0
67.5°	5683.8	5632.8	5103.4	3527.4	3527.4
70°	4841.7	4860.9	2940.5	3090.8	3093.8
72.5°	3996.4	4066.7	2539.0	2659.9	2666.3
75°	3195.8	3256.6	2114.6	2226.3	2235.8
77.5°	2347.6	1805.2	1699.9	1786.3	1789.4
80°	1648.9	1138.7	1301.4	1384.2	1374.7
82.5°	963.1	797.3	953.6	1014.4	1011.0
85°	417.7	529.5	660.2	714.5	676.0
87.5°	133.7	328.6	411.3	443.4	440.0
90°	0.0	178.6	293.4	347.5	341.4
92.5°	0.0	140.1	255.3	319.1	322.1
95°	9.5	92.5	210.7	284.0	284.0
97.5°	6.4	66.9	149.9	223.2	229.6
100°	6.4	54.0	98.9	159.4	162.8
102.5°	15.9	44.6	60.4	102.0	105.4
105°	15.9	35.1	51.0	51.0	48.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	19.2	25.7	35.1	25.7	3.0
115°	15.9	22.3	31.7	22.3	3.0
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
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°	15.9	31.7	44.6	28.7	9.5
110°	19.2	28.7	38.2	25.7	3.0



(END OF REPORT)