

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: P830506

Luminaire Tested: **OHBL-48HE-NL-UNV-L850-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830506
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-L850-CD
Description: 48000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 5000K LEDS AND NO LENS
Light Source: -
Ballast/Driver: -

Summary

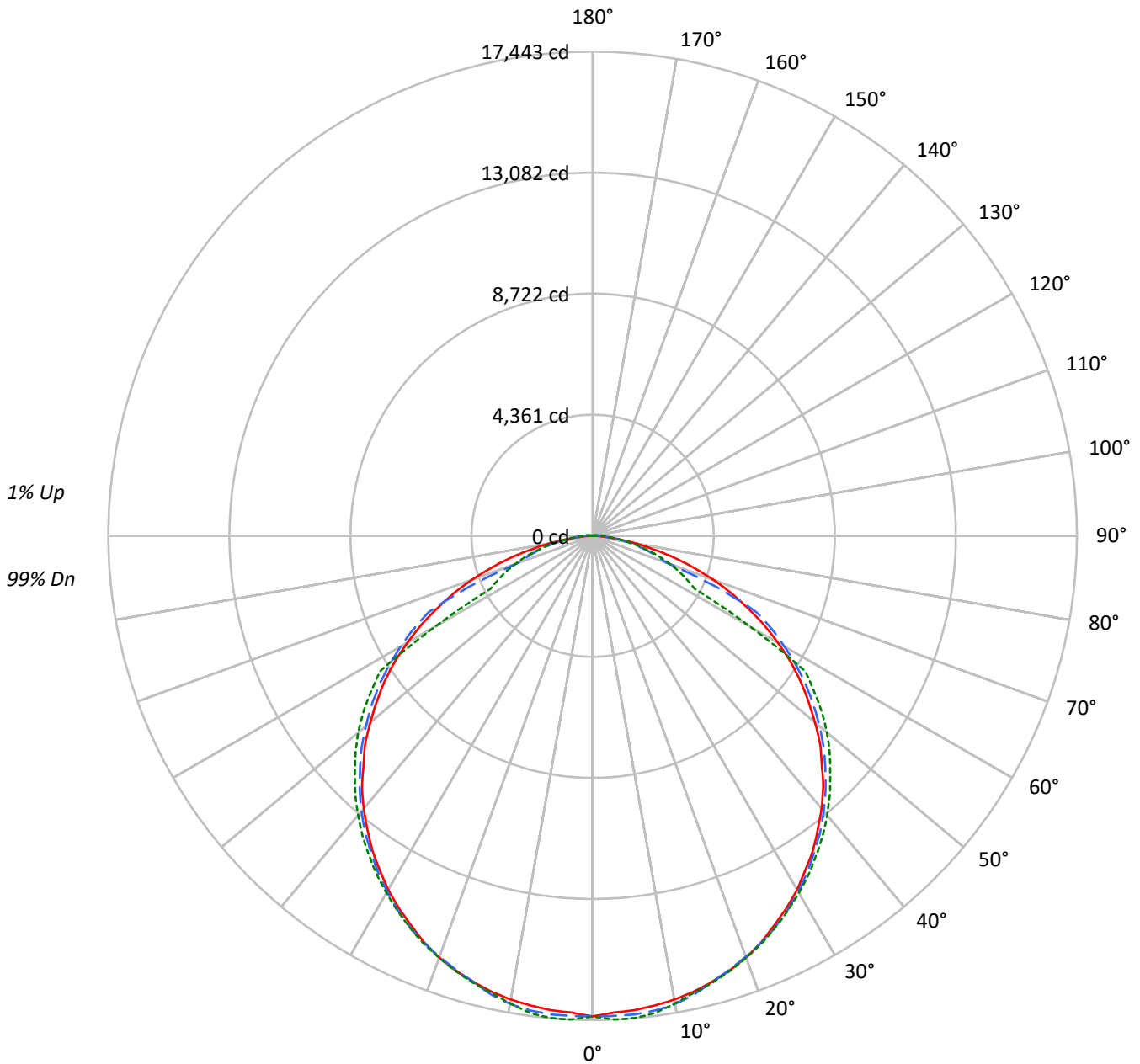
Lumens per Lamp: N/A
Luminaire Lumens: 48616.0 lumens
Efficiency: N/A
Efficacy: 182.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular (W 1.8' x L: 3.78' x H: 0')
CIE Type: Direct

Input Watts (W): 266
Input Voltage (V): NR
Input Current (A_{in}): 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°	27385	27385	27385
5°	27233	27479	27687
10°	27241	27500	27465
15°	27236	27231	27291
20°	27199	27158	27224
25°	27013	27151	27172
30°	26888	27027	27132
35°	26714	26860	27112
40°	26483	26734	27129
45°	26101	26495	27073
50°	25708	26232	27098
55°	25216	25870	26800
60°	24371	25236	20864
65°	23058	24399	14042
70°	21327	12953	13628
75°	18602	12309	13014
80°	14306	11291	11927
85°	7220	11412	11686



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1645.1	3.4
10°-20°	4710.3	9.7
20°-30°	7167.1	14.7
30°-40°	8714.1	17.9
40°-50°	9162.5	18.8
50°-60°	8366.5	17.2
60°-70°	5363.3	11.0
70°-80°	2533.6	5.2
80°-90°	702.5	1.4
90°-100°	186.0	0.4
100°-110°	50.9	0.1
110°-120°	14.1	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°	13522.4	27.8
0°-40°	22236.5	45.7
0°-60°	39765.5	81.8
0°-90°	48364.9	99.5
90°-120°	251.1	0.5
90°-150°	251.1	0.5
90°-180°	251.0	0.5
0°-180°	48616.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	17316	17316	17316	17316	17316	
5°	17155	17222	17310	17404	17440	###
15°	16635	16760	16632	16656	16668	4696
25°	15481	15505	15559	15584	15572	7143
35°	13837	13755	13913	14083	14043	8647
45°	11670	11649	11846	12126	12105	9020
55°	9145	9076	9382	9696	9720	8156
65°	6162	6162	6520	3740	3752	6109
75°	3044	3102	2014	2121	2130	3209
85°	398	504	629	681	644	588
90°	0	170	280	331	325	17
95°	9	88	201	270	270	5
105°	15	34	49	49	46	15
115°	15	21	30	21	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	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	17315.8	17315.8	17315.8	17315.8	17315.8
2.5°	17194.2	17252.1	17315.8	17397.8	17443.2
5°	17154.6	17221.5	17309.7	17403.9	17440.3
7.5°	17069.7	17163.6	17248.9	17315.8	17337.0
10°	16963.2	17075.8	17124.4	17118.3	17103.1
12.5°	16820.4	16939.1	16924.0	16853.8	16866.1
15°	16635.1	16759.6	16632.2	16656.3	16668.5
17.5°	16416.3	16537.9	16389.0	16437.6	16440.8
20°	16161.3	16252.3	16136.8	16176.4	16176.4
22.5°	15854.4	15918.1	15869.5	15896.8	15902.9
25°	15480.6	15504.7	15559.4	15583.8	15571.6
27.5°	15122.2	15091.7	15198.1	15255.7	15225.2
30°	14724.0	14675.4	14799.9	14894.2	14857.8
32.5°	14268.2	14237.9	14380.8	14493.0	14471.8
35°	13836.8	13754.8	13912.7	14082.9	14043.3
37.5°	13326.3	13277.7	13456.9	13636.4	13615.1
40°	12828.0	12746.0	12949.6	13162.2	13141.0
42.5°	12293.4	12195.9	12417.9	12673.3	12648.8
45°	11670.3	11649.0	11846.5	12126.1	12104.9
47.5°	11117.6	11011.1	11287.5	11558.0	11582.4
50°	10448.8	10409.6	10661.8	10989.9	11014.0
52.5°	9795.8	9768.5	10032.6	10363.9	10406.4
55°	9145.4	9075.6	9382.5	9695.5	9719.9
57.5°	8449.9	8376.9	8689.9	9030.2	9081.7
60°	7705.2	7635.4	7978.7	8294.9	6596.4
62.5°	6960.9	6912.3	7271.0	5150.1	4150.7
65°	6161.8	6161.8	6520.2	3740.2	3752.4
67.5°	5414.5	5366.0	4861.6	3360.3	3360.3
70°	4612.3	4630.6	2801.2	2944.3	2947.2
72.5°	3807.1	3874.0	2418.7	2533.9	2540.0
75°	3044.4	3102.3	2014.4	2120.8	2129.9
77.5°	2236.3	1719.7	1619.3	1701.7	1704.6
80°	1570.8	1084.7	1239.8	1318.6	1309.6
82.5°	917.4	759.5	908.4	966.3	963.1
85°	397.9	504.4	628.9	680.7	644.0
87.5°	127.4	313.0	391.8	422.4	419.2
90°	0.0	170.2	279.5	331.0	325.2
92.5°	0.0	133.5	243.2	304.0	306.9
95°	9.0	88.1	200.7	270.5	270.5
97.5°	6.1	63.7	142.8	212.6	218.7
100°	6.1	51.5	94.3	151.8	155.1
102.5°	15.1	42.5	57.6	97.1	100.4
105°	15.1	33.5	48.6	48.6	45.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	18.3	24.4	33.5	24.4	2.9
115°	15.1	21.2	30.2	21.2	2.9
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°	15.1	30.2	42.5	27.3	9.0
110°	18.3	27.3	36.3	24.4	2.9



(END OF REPORT)