

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: P830503

Luminaire Tested: **OHBL-48HE-NL-UNV-L830-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830503
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-L830-CD
Description: 48000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 3000K LEDS AND NO LENS
Light Source: -
Ballast/Driver: -

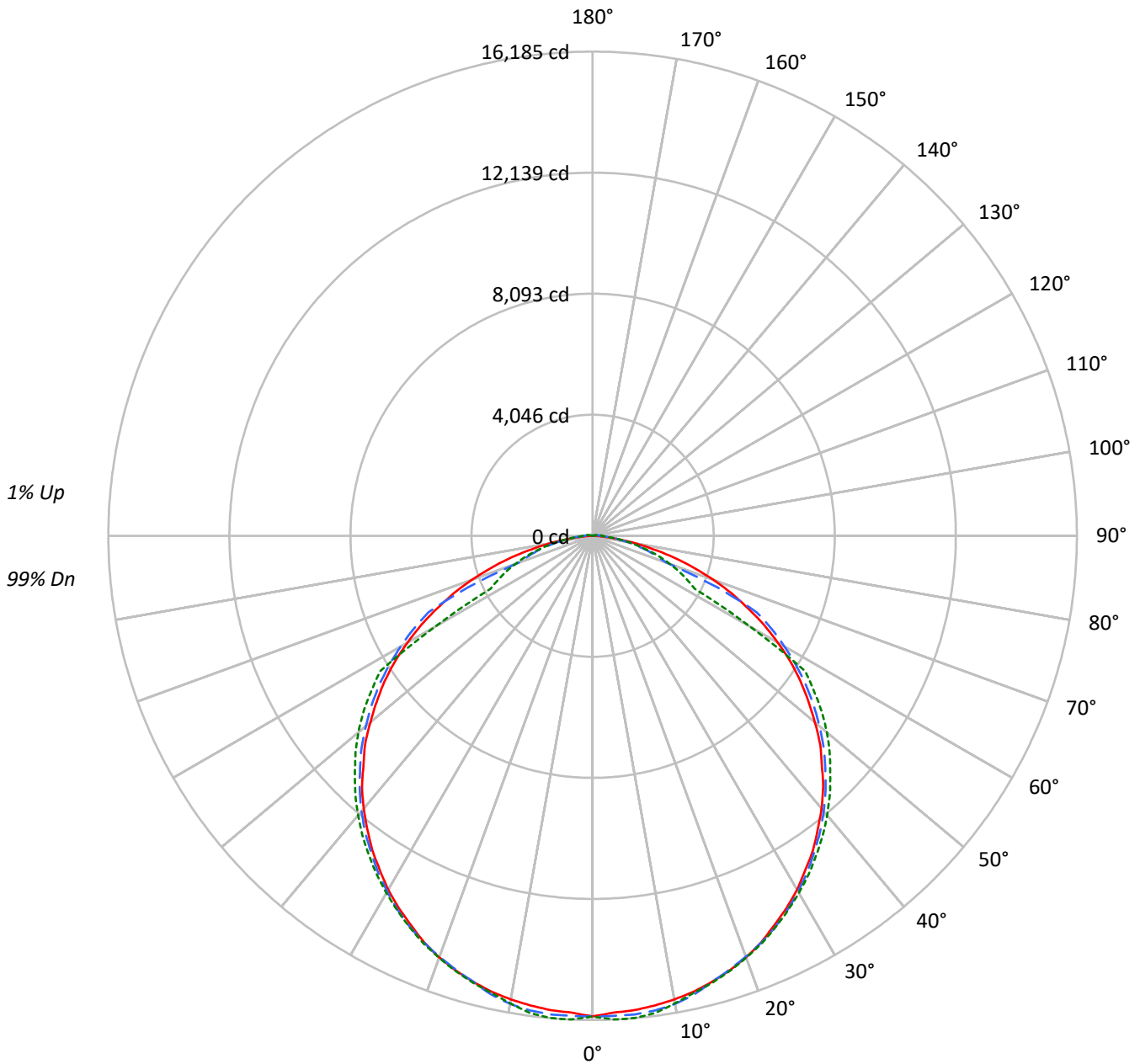
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45109.0 lumens
Efficiency: N/A
Efficacy: 169.6 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°	25409	25409	25409
5°	25269	25497	25690
10°	25276	25516	25484
15°	25271	25267	25322
20°	25237	25199	25261
25°	25064	25192	25212
30°	24948	25077	25175
35°	24787	24923	25157
40°	24573	24805	25172
45°	24218	24584	25120
50°	23853	24339	25143
55°	23397	24003	24867
60°	22613	23416	19359
65°	21395	22639	13029
70°	19788	12018	12645
75°	17261	11421	12075
80°	13274	10476	11066
85°	6699	10588	10842



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1526.4	3.4
10°-20°	4370.5	9.7
20°-30°	6650.1	14.7
30°-40°	8085.5	17.9
40°-50°	8501.5	18.8
50°-60°	7762.9	17.2
60°-70°	4976.4	11.0
70°-80°	2350.8	5.2
80°-90°	651.8	1.4
90°-100°	172.6	0.4
100°-110°	47.3	0.1
110°-120°	13.1	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°	12546.9	27.8
0°-40°	20632.4	45.7
0°-60°	36896.9	81.8
0°-90°	44876.0	99.5
90°-120°	233.0	0.5
90°-150°	233.0	0.5
90°-180°	233.0	0.5
0°-180°	45109.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16067	16067	16067	16067	16067	
5°	15917	15979	16061	16148	16182	###
15°	15435	15551	15432	15455	15466	4358
25°	14364	14386	14437	14460	14448	6628
35°	12839	12762	12909	13067	13030	8023
45°	10828	10809	10992	11251	11232	8370
55°	8486	8421	8706	8996	9019	7568
65°	5717	5717	6050	3470	3482	5668
75°	2825	2878	1869	1968	1976	2978
85°	369	468	584	632	598	546
90°	0	158	259	307	302	16
95°	8	82	186	251	251	5
105°	14	31	45	45	42	14
115°	14	20	28	20	3	10
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



TEST NUMBER: P830503

CATALOG NUMBER: OHBL-48HE-NL-UNV-L830-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	16066.7	16066.7	16066.7	16066.7	16066.7
2.5°	15953.8	16007.6	16066.7	16142.8	16184.9
5°	15917.1	15979.2	16061.0	16148.4	16182.2
7.5°	15838.3	15925.5	16004.6	16066.7	16086.4
10°	15739.5	15844.0	15889.1	15883.4	15869.4
12.5°	15607.0	15717.1	15703.1	15638.1	15649.4
15°	15435.1	15550.6	15432.4	15454.8	15466.1
17.5°	15232.1	15344.9	15206.8	15251.8	15254.8
20°	14995.4	15079.9	14972.8	15009.5	15009.5
22.5°	14710.7	14769.8	14724.7	14750.1	14755.8
25°	14363.9	14386.2	14437.0	14459.7	14448.3
27.5°	14031.4	14003.0	14101.8	14155.2	14126.9
30°	13661.8	13616.8	13732.3	13819.7	13786.0
32.5°	13238.9	13210.8	13343.4	13447.5	13427.8
35°	12838.6	12762.5	12909.1	13067.0	13030.3
37.5°	12365.0	12319.9	12486.1	12652.7	12633.0
40°	11902.6	11826.5	12015.4	12212.7	12193.0
42.5°	11406.6	11316.1	11522.1	11759.1	11736.4
45°	10828.4	10808.7	10992.0	11251.4	11231.7
47.5°	10315.6	10216.8	10473.2	10724.2	10746.9
50°	9695.1	9658.7	9892.7	10197.1	10219.5
52.5°	9089.2	9063.8	9308.9	9616.3	9655.7
55°	8485.7	8420.9	8705.6	8996.1	9018.8
57.5°	7840.4	7772.6	8063.0	8378.8	8426.6
60°	7149.4	7084.6	7403.1	7696.5	6120.5
62.5°	6458.7	6413.7	6746.5	4778.6	3851.2
65°	5717.3	5717.3	6049.8	3470.4	3481.7
67.5°	5023.9	4978.9	4510.9	3117.9	3117.9
70°	4279.5	4296.6	2599.1	2732.0	2734.6
72.5°	3532.5	3594.5	2244.2	2351.1	2356.8
75°	2824.8	2878.5	1869.1	1967.9	1976.2
77.5°	2075.0	1595.7	1502.5	1578.9	1581.6
80°	1457.5	1006.5	1150.3	1223.5	1215.1
82.5°	851.3	704.7	842.9	896.6	893.6
85°	369.2	468.0	583.5	631.6	597.5
87.5°	118.2	290.4	363.5	391.9	388.9
90°	0.0	157.9	259.4	307.1	301.8
92.5°	0.0	123.9	225.6	282.1	284.7
95°	8.4	81.8	186.2	251.0	251.0
97.5°	5.7	59.1	132.5	197.3	203.0
100°	5.7	47.8	87.5	140.9	143.9
102.5°	14.0	39.4	53.4	90.1	93.1
105°	14.0	31.0	45.1	45.1	42.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	17.0	22.7	31.0	22.7	2.7
115°	14.0	19.7	28.1	19.7	2.7
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°	14.0	28.1	39.4	25.4	8.4
110°	17.0	25.4	33.7	22.7	2.7



(END OF REPORT)