

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: P830467

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830467
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-200-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-48HE-MCL-UNV-L830-CD
Description: 48000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 3000K LEDS AND MEDIUM CLEAR LENS
Light Source: -
Ballast/Driver: -

Summary

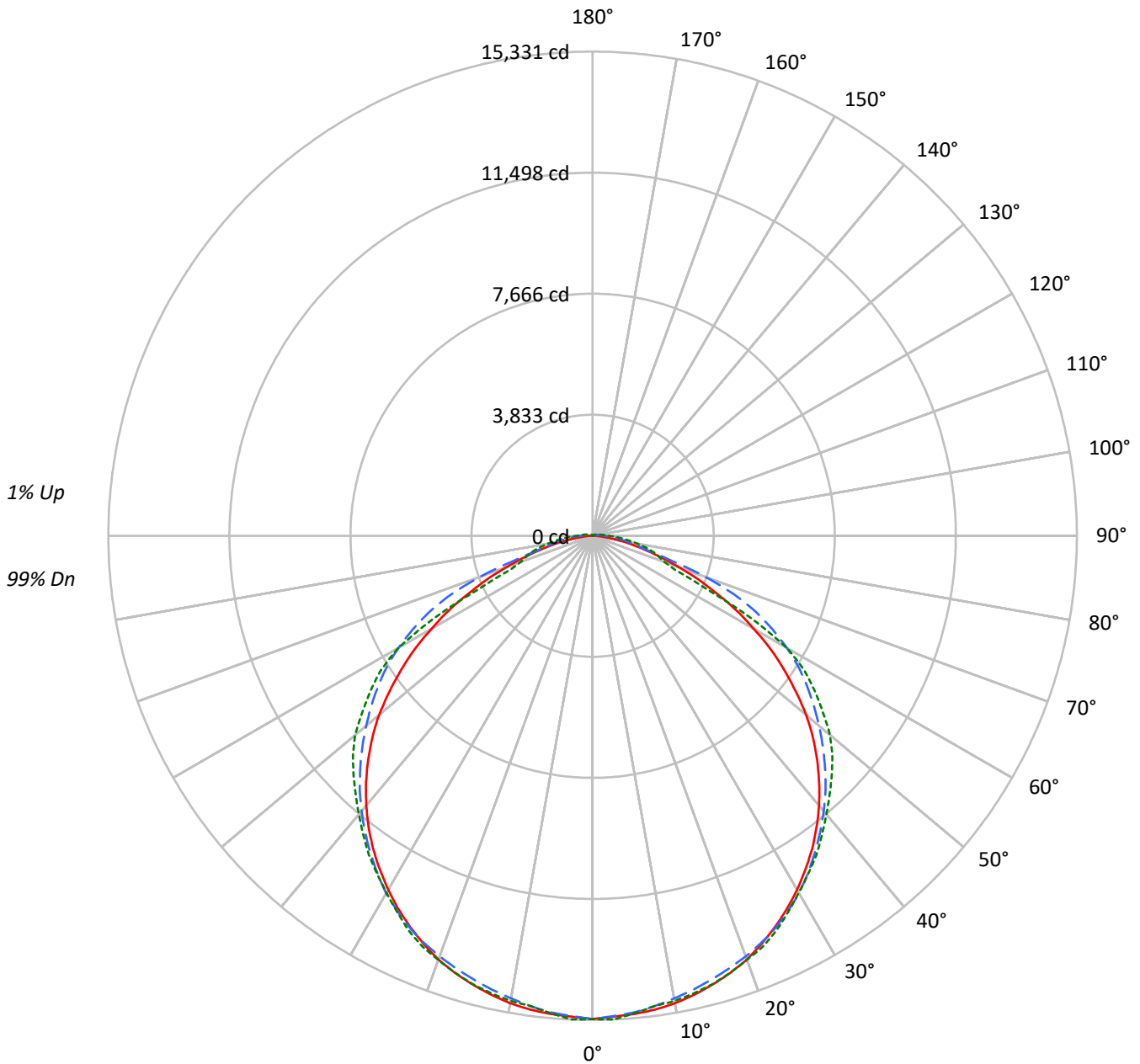
Lumens per Lamp: N/A
Luminaire Lumens: 43245.9 lumens
Efficiency: N/A
Efficacy: 162.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 266
Input Voltage (V): NR
Input Current (A_{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	110	110	110	106	106	106	101	101	101				99																
1	109	104	100	96	106	102	98	95	97	94	91	93	91	88	90	87	86				83																
2	99	91	84	79	96	89	83	78	85	80	76	82	78	74	79	75	72				70																
3	91	80	72	66	88	79	71	65	75	69	64	72	67	63	70	65	61				59																
4	83	71	62	56	81	70	62	55	67	60	54	65	59	54	62	57	53				51																
5	76	64	55	48	74	62	54	48	60	53	47	58	52	46	56	50	46				44																
6	70	57	48	42	68	56	48	42	54	47	41	52	46	41	51	45	40				38																
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36				34																
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	42	36	32				30																
9	57	43	35	30	55	43	35	29	41	34	29	40	34	29	39	33	29				27																
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	36	30	26				24																

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	24197	24197	24197
5°	24039	23846	23896
10°	23951	23485	23630
15°	23799	23215	23472
20°	23647	23044	23264
25°	23362	22873	23059
30°	23051	22603	22622
35°	22680	22174	22382
40°	22198	21731	22054
45°	21529	21219	21909
50°	20624	20636	21736
55°	19184	20062	20924
60°	17299	19223	19345
65°	14840	17665	12260
70°	11953	13790	8888
75°	8961	8186	9021
80°	6238	6806	8613
85°	3550	6236	8073



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1442.7	3.3
10°-20°	4137.0	9.6
20°-30°	6318.4	14.6
30°-40°	7666.4	17.7
40°-50°	8035.2	18.6
50°-60°	7281.1	16.8
60°-70°	4881.7	11.3
70°-80°	2192.1	5.1
80°-90°	795.5	1.8
90°-100°	239.4	0.6
100°-110°	113.0	0.3
110°-120°	56.6	0.1
120°-130°	31.2	0.1
130°-140°	21.5	0.0
140°-150°	14.4	0.0
150°-160°	10.7	0.0
160°-170°	6.9	0.0
170°-180°	2.2	0.0
0°-30°	11898.1	27.5
0°-40°	19564.5	45.2
0°-60°	34880.8	80.7
0°-90°	42750.0	98.9
90°-120°	409.0	0.9
90°-150°	476.2	1.1
90°-180°	496.0	1.1
0°-180°	43245.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	15300	15300	15300	15300	15300	
5°	15201	15254	15148	15194	15174	###
15°	14708	14650	14546	14674	14692	4153
25°	13663	13604	13699	13825	13785	6298
35°	12110	12139	12263	12394	12345	7569
45°	10051	10214	10405	10670	10703	7742
55°	7396	7752	8281	8613	8593	6602
65°	4341	5020	5699	4810	3927	4325
75°	1708	2478	1823	1865	1987	1866
85°	294	564	723	874	916	359
90°	2	188	374	469	491	18
95°	2	117	257	312	321	3
105°	9	51	126	153	159	10
115°	18	26	64	82	86	16
125°	16	18	40	46	49	15
135°	20	22	24	35	38	16
145°	20	22	22	24	26	13
155°	22	24	24	24	22	10
165°	24	24	24	24	24	7
175°	24	24	22	20	20	2
180°	22	22	22	22	22	



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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	15300.5	15300.5	15300.5	15300.5	15300.5
2.5°	15238.5	15302.7	15223.0	15309.3	15331.4
5°	15200.9	15254.0	15147.8	15194.3	15174.4
7.5°	15132.3	15150.0	15023.9	15061.5	15021.7
10°	15030.6	15021.7	14873.5	14946.5	14955.3
12.5°	14880.1	14853.6	14720.8	14831.5	14833.7
15°	14707.6	14650.0	14546.1	14674.4	14692.1
17.5°	14508.5	14433.2	14364.7	14530.6	14504.0
20°	14276.2	14187.7	14174.4	14355.8	14289.4
22.5°	13988.6	13920.0	13951.0	14123.5	14081.5
25°	13663.3	13603.6	13698.7	13824.8	13785.0
27.5°	13320.4	13285.0	13393.4	13490.8	13413.4
30°	12944.3	12924.4	13068.2	13147.9	13050.5
32.5°	12535.1	12541.7	12678.9	12787.3	12696.6
35°	12110.3	12139.1	12262.9	12393.5	12344.8
37.5°	11643.5	11707.6	11831.5	11979.8	11928.9
40°	11150.1	11243.1	11380.2	11559.4	11513.0
42.5°	10617.0	10734.2	10911.2	11110.3	11105.9
45°	10050.6	10214.3	10404.6	10670.1	10703.3
47.5°	9462.1	9645.8	9886.9	10240.9	10291.8
50°	8822.8	9052.9	9353.7	9778.5	9809.5
52.5°	8110.4	8424.6	8822.8	9229.8	9192.2
55°	7395.8	7752.0	8280.7	8612.6	8592.7
57.5°	6683.4	7083.9	7725.5	7962.2	7960.0
60°	5887.0	6393.6	7094.9	7274.1	7097.2
62.5°	5150.3	5694.5	6422.4	6291.9	5685.7
65°	4340.6	5019.8	5699.0	4809.6	3926.9
67.5°	3621.6	4329.5	4840.6	3294.2	2820.7
70°	2898.2	3679.1	3774.2	2444.6	2411.4
72.5°	2256.6	3088.4	2603.9	2092.9	2199.1
75°	1707.9	2477.8	1823.0	1865.0	1986.7
77.5°	1245.5	1902.6	1418.1	1634.9	1734.5
80°	856.2	1347.3	1157.0	1373.9	1442.4
82.5°	537.6	889.4	927.0	1106.2	1177.0
85°	294.2	564.1	723.4	873.9	915.9
87.5°	121.7	340.7	553.1	674.8	710.2
90°	2.2	188.0	373.9	469.0	491.1
92.5°	2.2	143.8	305.3	378.3	393.8
95°	2.2	117.3	256.6	311.9	320.8
97.5°	4.4	92.9	214.6	258.8	267.7
100°	6.6	77.4	179.2	216.8	223.4
102.5°	8.8	61.9	150.4	181.4	188.0
105°	8.8	50.9	126.1	152.7	159.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	15.5	31.0	75.2	95.1	99.6
115°	17.7	26.5	64.2	81.9	86.3
117.5°	17.7	22.1	55.3	68.6	73.0
120°	17.7	19.9	48.7	59.7	61.9
122.5°	17.7	17.7	42.0	53.1	55.3
125°	15.5	17.7	39.8	46.5	48.7
127.5°	17.7	17.7	35.4	42.0	44.2
130°	17.7	19.9	31.0	39.8	39.8
132.5°	19.9	22.1	28.8	37.6	37.6
135°	19.9	22.1	24.3	35.4	37.6
137.5°	22.1	22.1	22.1	33.2	35.4
140°	22.1	22.1	19.9	28.8	31.0
142.5°	19.9	22.1	19.9	26.5	28.8
145°	19.9	22.1	22.1	24.3	26.5
147.5°	22.1	22.1	22.1	22.1	24.3
150°	22.1	22.1	22.1	22.1	22.1
152.5°	22.1	22.1	22.1	22.1	22.1
155°	22.1	24.3	24.3	24.3	22.1
157.5°	22.1	24.3	24.3	24.3	24.3
160°	22.1	24.3	24.3	24.3	24.3
162.5°	24.3	24.3	24.3	24.3	24.3
165°	24.3	24.3	24.3	24.3	24.3
167.5°	24.3	26.5	24.3	24.3	24.3
170°	24.3	24.3	24.3	22.1	22.1
172.5°	24.3	24.3	24.3	22.1	22.1
175°	24.3	24.3	22.1	19.9	19.9
177.5°	26.5	24.3	22.1	19.9	17.7
180°	22.1	22.1	22.1	22.1	22.1



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







107.5°	11.1	42.0	108.4	130.5	<i>135.0</i>
110°	13.3	35.4	90.7	110.6	<i>115.0</i>



(END OF REPORT)