

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: P830472

Luminaire Tested: **OHBL-48HE-MCL-UNV-L935-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830472
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-L935-CD
Description: 48000 LUMEN OHBL HE LED LUMINAIRE WITH 90CRI, 3500K LEDS AND MEDIUM CLEAR LENS
Light Source: -
Ballast/Driver: -

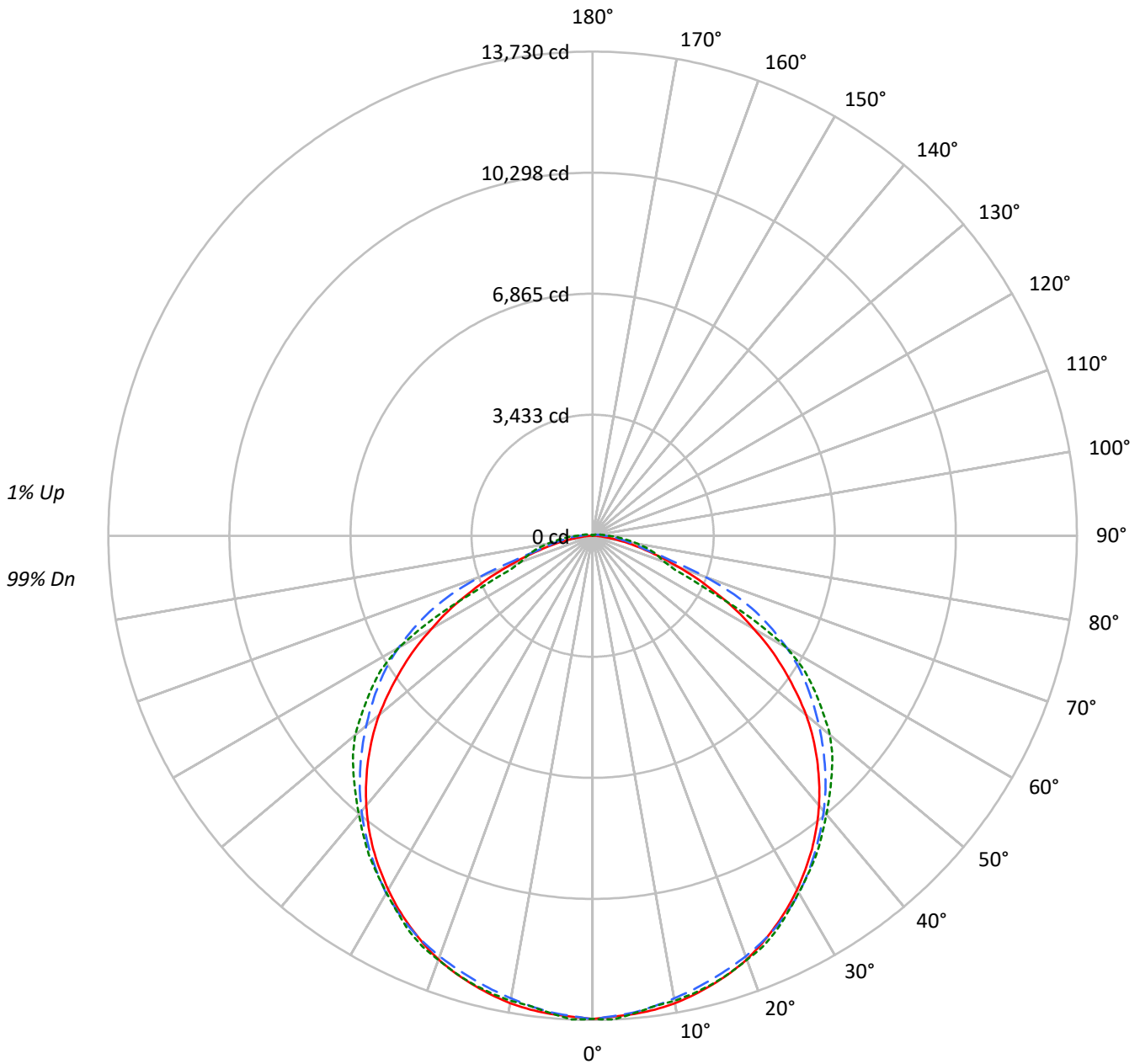
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38728.0 lumens
Efficiency: N/A
Efficacy: 145.6 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

TEST NUMBER: P830472
CATALOG NUMBER: OHBL-48HE-MCL-UNV-L935-CD

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°	21669	21669	21669
5°	21528	21355	21400
10°	21449	21031	21162
15°	21313	20789	21020
20°	21176	20637	20834
25°	20921	20483	20650
30°	20643	20242	20259
35°	20311	19858	20043
40°	19879	19461	19750
45°	19280	19002	19620
50°	18469	18480	19465
55°	17180	17966	18738
60°	15492	17214	17324
65°	13289	15819	10979
70°	10704	12349	7960
75°	8025	7331	8079
80°	5586	6096	7713
85°	3179	5585	7230



TEST NUMBER: P830472

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1292.0	3.3
10°-20°	3704.8	9.6
20°-30°	5658.3	14.6
30°-40°	6865.5	17.7
40°-50°	7195.7	18.6
50°-60°	6520.4	16.8
60°-70°	4371.7	11.3
70°-80°	1963.1	5.1
80°-90°	712.4	1.8
90°-100°	214.4	0.6
100°-110°	101.2	0.3
110°-120°	50.7	0.1
120°-130°	28.0	0.1
130°-140°	19.2	0.0
140°-150°	12.9	0.0
150°-160°	9.6	0.0
160°-170°	6.2	0.0
170°-180°	2.0	0.0
0°-30°	10655.1	27.5
0°-40°	17520.6	45.2
0°-60°	31236.7	80.7
0°-90°	38283.8	98.9
90°-120°	366.3	0.9
90°-150°	426.4	1.1
90°-180°	444.0	1.1
0°-180°	38728.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13702	13702	13702	13702	13702	
5°	13613	13660	13565	13607	13589	###
15°	13171	13120	13026	13141	13157	3719
25°	12236	12182	12268	12380	12345	5640
35°	10845	10871	10982	11099	11055	6779
45°	9001	9147	9318	9555	9585	6934
55°	6623	6942	7416	7713	7695	5912
65°	3887	4495	5104	4307	3517	3873
75°	1530	2219	1632	1670	1779	1671
85°	264	505	648	783	820	322
90°	2	168	335	420	440	16
95°	2	105	230	279	287	3
105°	8	46	113	137	143	9
115°	16	24	58	73	77	15
125°	14	16	36	42	44	14
135°	18	20	22	32	34	14
145°	18	20	20	22	24	12
155°	20	22	22	22	20	9
165°	22	22	22	22	22	6
175°	22	22	20	18	18	2
180°	20	20	20	20	20	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	13702.0	13702.0	13702.0	13702.0	13702.0
2.5°	13646.5	13704.0	13632.7	13709.9	13729.7
5°	13612.8	13660.4	13565.3	13606.9	13589.1
7.5°	13551.4	13567.3	13454.3	13488.0	13452.4
10°	13460.3	13452.4	13319.6	13385.0	13392.9
12.5°	13325.6	13301.8	13182.9	13282.0	13284.0
15°	13171.0	13119.5	13026.4	13141.3	13157.2
17.5°	12992.7	12925.4	12864.0	13012.5	12988.8
20°	12784.7	12705.5	12693.6	12856.0	12796.6
22.5°	12527.1	12465.7	12493.5	12648.0	12610.4
25°	12235.9	12182.4	12267.6	12380.5	12344.9
27.5°	11928.8	11897.1	11994.2	12081.4	12012.0
30°	11592.0	11574.2	11703.0	11774.3	11687.1
32.5°	11225.5	11231.4	11354.3	11451.4	11370.1
35°	10845.1	10870.9	10981.8	11098.7	11055.1
37.5°	10427.1	10484.5	10595.5	10728.2	10682.6
40°	9985.3	10068.5	10191.3	10351.8	10310.2
42.5°	9507.8	9612.8	9771.3	9949.6	9945.6
45°	9000.6	9147.2	9317.6	9555.3	9585.1
47.5°	8473.6	8638.0	8854.0	9171.0	9216.6
50°	7901.0	8107.1	8376.5	8756.9	8784.7
52.5°	7263.1	7544.4	7901.0	8265.6	8231.9
55°	6623.2	6942.1	7415.6	7712.8	7695.0
57.5°	5985.2	6343.8	6918.4	7130.3	7128.4
60°	5272.0	5725.7	6353.7	6514.2	6355.7
62.5°	4612.2	5099.6	5751.4	5634.5	5091.7
65°	3887.1	4495.3	5103.6	4307.1	3516.6
67.5°	3243.2	3877.2	4334.9	2950.0	2526.0
70°	2595.4	3294.7	3379.9	2189.2	2159.5
72.5°	2020.8	2765.8	2331.9	1874.2	1969.3
75°	1529.5	2218.9	1632.5	1670.2	1779.1
77.5°	1115.4	1703.8	1270.0	1464.1	1553.3
80°	766.7	1206.6	1036.2	1230.3	1291.7
82.5°	481.4	796.4	830.1	990.6	1054.0
85°	263.5	505.2	647.9	782.6	820.2
87.5°	109.0	305.1	495.3	604.3	636.0
90°	2.0	168.4	334.8	420.0	439.8
92.5°	2.0	128.8	273.4	338.8	352.7
95°	2.0	105.0	229.8	279.3	287.3
97.5°	4.0	83.2	192.2	231.8	239.7
100°	5.9	69.3	160.5	194.2	200.1
102.5°	7.9	55.5	134.7	162.5	168.4
105°	7.9	45.6	112.9	136.7	142.6



TEST NUMBER: P830472

CATALOG NUMBER: OHBL-48HE-MCL-UNV-L935-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	13.9	27.7	67.4	85.2	89.2
115°	15.8	23.8	57.5	73.3	77.3
117.5°	15.8	19.8	49.5	61.4	65.4
120°	15.8	17.8	43.6	53.5	55.5
122.5°	15.8	15.8	37.6	47.5	49.5
125°	13.9	15.8	35.7	41.6	43.6
127.5°	15.8	15.8	31.7	37.6	39.6
130°	15.8	17.8	27.7	35.7	35.7
132.5°	17.8	19.8	25.8	33.7	33.7
135°	17.8	19.8	21.8	31.7	33.7
137.5°	19.8	19.8	19.8	29.7	31.7
140°	19.8	19.8	17.8	25.8	27.7
142.5°	17.8	19.8	17.8	23.8	25.8
145°	17.8	19.8	19.8	21.8	23.8
147.5°	19.8	19.8	19.8	19.8	21.8
150°	19.8	19.8	19.8	19.8	19.8
152.5°	19.8	19.8	19.8	19.8	19.8
155°	19.8	21.8	21.8	21.8	19.8
157.5°	19.8	21.8	21.8	21.8	21.8
160°	19.8	21.8	21.8	21.8	21.8
162.5°	21.8	21.8	21.8	21.8	21.8
165°	21.8	21.8	21.8	21.8	21.8
167.5°	21.8	23.8	21.8	21.8	21.8
170°	21.8	21.8	21.8	19.8	19.8
172.5°	21.8	21.8	21.8	19.8	19.8
175°	21.8	21.8	19.8	17.8	17.8
177.5°	23.8	21.8	19.8	17.8	15.8
180°	19.8	19.8	19.8	19.8	19.8



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	9.9	37.6	97.1	116.9	<i>120.9</i>
110°	11.9	31.7	81.2	99.1	<i>103.0</i>



(END OF REPORT)