

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: P829671

Luminaire Tested: **OHBL-100SE-MCL-UNV-L730-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829671
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-100SE-MCL-UNV-L730-CD
Description: 100000 LUMEN OHBL SE LED LUMINAIRE WITH 70CRI, 3000K LEDS AND MEDIUM CLEAR LENS
Light Source: -
Ballast/Driver: -

Summary

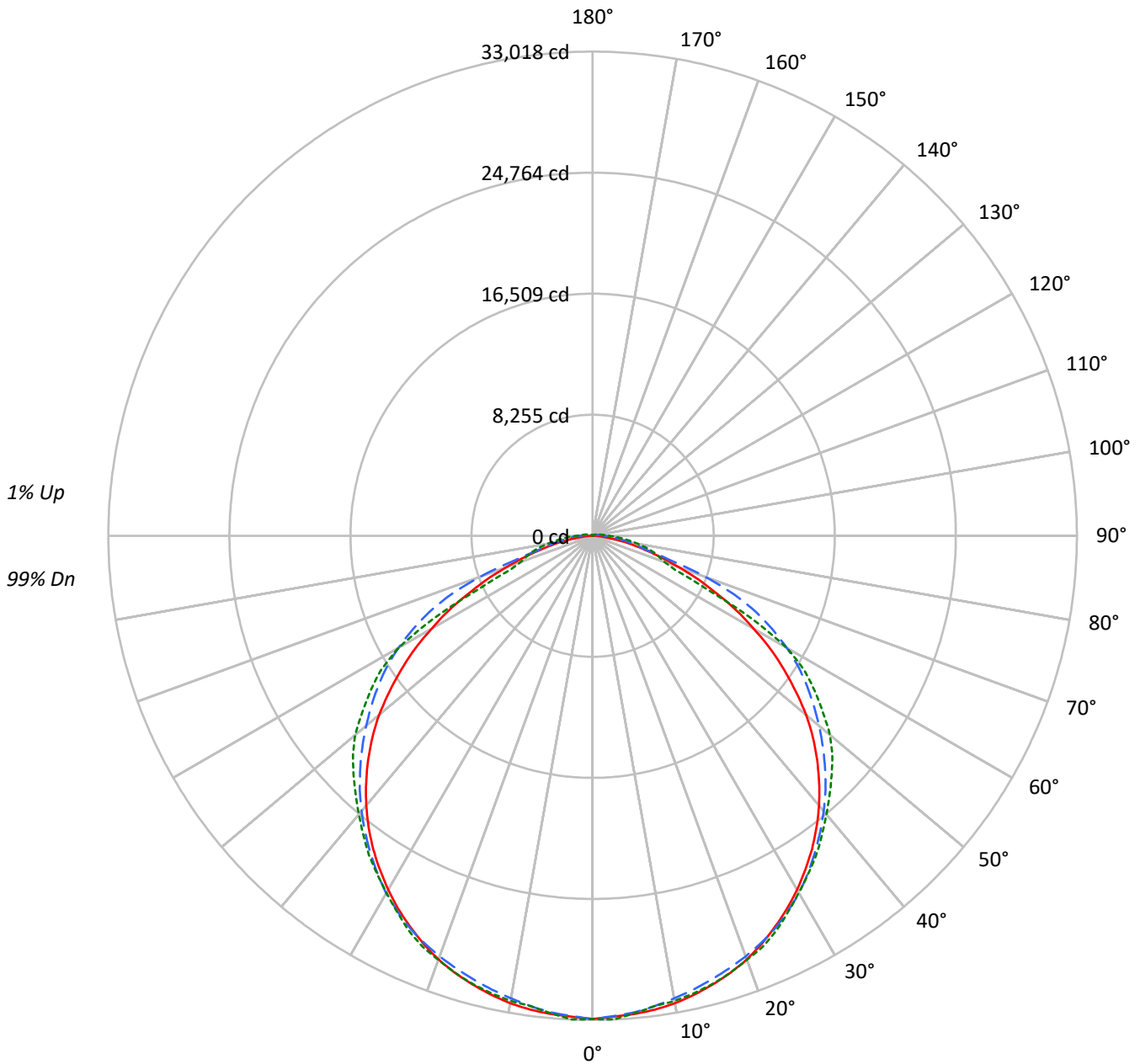
Lumens per Lamp: N/A
Luminaire Lumens: 93134.9 lumens
Efficiency: N/A
Efficacy: 157.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 590.1
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°	52112	52112	52112
5°	51771	51354	51463
10°	51581	50577	50891
15°	51254	49995	50550
20°	50926	49629	50103
25°	50312	49259	49659
30°	49644	48678	48720
35°	48844	47755	48202
40°	47806	46801	47496
45°	46366	45698	47184
50°	44415	44442	46810
55°	41315	43206	45063
60°	37256	41398	41661
65°	31959	38042	26403
70°	25742	29697	19143
75°	19300	17629	19428
80°	13434	14658	18549
85°	7646	13431	17387



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3107.0	3.3
10°-20°	8909.4	9.6
20°-30°	13607.5	14.6
30°-40°	16510.5	17.7
40°-50°	17304.6	18.6
50°-60°	15680.6	16.8
60°-70°	10513.2	11.3
70°-80°	4720.9	5.1
80°-90°	1713.1	1.8
90°-100°	515.7	0.6
100°-110°	243.3	0.3
110°-120°	121.9	0.1
120°-130°	67.3	0.1
130°-140°	46.2	0.0
140°-150°	31.1	0.0
150°-160°	23.1	0.0
160°-170°	14.9	0.0
170°-180°	4.7	0.0
0°-30°	25623.9	27.5
0°-40°	42134.4	45.2
0°-60°	75119.5	80.7
0°-90°	92066.8	98.9
90°-120°	880.9	0.9
90°-150°	1025.5	1.1
90°-180°	1068.0	1.1
0°-180°	93134.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	32951	32951	32951	32951	32951	
5°	32737	32851	32622	32722	32680	###
15°	31674	31550	31326	31603	31641	8943
25°	29426	29297	29502	29773	29688	13564
35°	26081	26143	26410	26691	26586	16301
45°	21645	21998	22407	22979	23051	16674
55°	15928	16695	17834	18548	18505	14217
65°	9348	10811	12273	10358	8457	9314
75°	3678	5336	3926	4016	4278	4020
85°	634	1215	1558	1882	1972	773
90°	5	405	805	1010	1058	38
95°	5	252	553	672	691	6
105°	19	110	272	329	343	22
115°	38	57	138	176	186	35
125°	33	38	86	100	105	33
135°	43	48	52	76	81	34
145°	43	48	48	52	57	28
155°	48	52	52	52	48	22
165°	52	52	52	52	52	15
175°	52	52	48	43	43	5
180°	48	48	48	48	48	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	32951.2	32951.2	32951.2	32951.2	<i>32951.2</i>
2.5°	<i>32817.8</i>	<i>32956.0</i>	<i>32784.5</i>	<i>32970.3</i>	<i>33017.9</i>
5°	32736.8	32851.2	32622.5	32722.5	<i>32679.7</i>
7.5°	32589.1	32627.3	32355.7	32436.7	<i>32350.9</i>
10°	32370.0	32350.9	32031.7	32188.9	<i>32208.0</i>
12.5°	32046.0	31988.8	31702.9	31941.2	<i>31945.9</i>
15°	31674.4	31550.5	31326.5	31602.9	<i>31641.0</i>
17.5°	31245.6	31083.6	30935.9	31293.2	<i>31236.0</i>
20°	30745.3	30554.7	30526.1	30916.8	<i>30773.9</i>
22.5°	30125.9	29978.2	30044.9	30416.5	<i>30326.0</i>
25°	29425.5	29296.9	29501.7	29773.3	<i>29687.6</i>
27.5°	28687.0	28610.8	28844.2	29053.9	<i>28887.1</i>
30°	27877.1	27834.2	28143.9	28315.4	<i>28105.8</i>
32.5°	26995.6	27009.9	27305.3	27538.8	<i>27343.4</i>
35°	26080.8	26142.8	26409.6	26690.7	<i>26585.9</i>
37.5°	25075.5	25213.7	25480.5	25799.7	<i>25690.2</i>
40°	24013.1	24213.2	24508.6	24894.5	<i>24794.4</i>
42.5°	22864.8	23117.3	23498.5	23927.3	<i>23917.8</i>
45°	21645.1	21997.7	22407.4	22979.2	<i>23050.6</i>
47.5°	20377.7	20773.2	21292.5	22054.8	<i>22164.4</i>
50°	19000.8	19496.3	20144.3	21059.1	<i>21125.8</i>
52.5°	17466.6	18143.2	19000.8	19877.5	<i>19796.5</i>
55°	15927.7	16694.8	17833.5	18548.2	<i>18505.3</i>
57.5°	14393.5	15255.9	16637.6	17147.4	<i>17142.6</i>
60°	12678.3	13769.4	15279.7	15665.7	<i>15284.5</i>
62.5°	11091.7	12263.8	13831.3	13550.2	<i>12244.7</i>
65°	9347.9	10810.6	12273.3	10358.0	<i>8457.0</i>
67.5°	7799.5	9324.1	10424.7	7094.3	<i>6074.7</i>
70°	6241.5	7923.4	8128.2	5264.8	<i>5193.3</i>
72.5°	4859.8	6651.2	5607.8	4507.2	<i>4735.9</i>
75°	3678.2	5336.2	3925.9	4016.5	<i>4278.5</i>
77.5°	2682.4	4097.5	3054.0	3521.0	<i>3735.4</i>
80°	1843.9	2901.6	2491.8	2958.8	<i>3106.5</i>
82.5°	1157.8	1915.3	1996.3	2382.2	<i>2534.7</i>
85°	633.7	1214.9	1558.0	1882.0	<i>1972.5</i>
87.5°	262.0	733.7	1191.1	1453.2	<i>1529.4</i>
90°	4.8	405.0	805.2	1010.1	<i>1057.7</i>
92.5°	4.8	309.7	657.5	814.7	<i>848.1</i>
95°	4.8	252.5	552.7	671.8	<i>690.9</i>
97.5°	9.5	200.1	462.2	557.4	<i>576.5</i>
100°	14.3	166.8	385.9	466.9	<i>481.2</i>
102.5°	19.1	133.4	324.0	390.7	<i>405.0</i>
105°	19.1	109.6	271.6	328.8	<i>343.0</i>



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	33.4	66.7	162.0	204.9	214.4
115°	38.1	57.2	138.2	176.3	185.8
117.5°	38.1	47.6	119.1	147.7	157.2
120°	38.1	42.9	104.8	128.6	133.4
122.5°	38.1	38.1	90.5	114.3	119.1
125°	33.4	38.1	85.8	100.1	104.8
127.5°	38.1	38.1	76.2	90.5	95.3
130°	38.1	42.9	66.7	85.8	85.8
132.5°	42.9	47.6	61.9	81.0	81.0
135°	42.9	47.6	52.4	76.2	81.0
137.5°	47.6	47.6	47.6	71.5	76.2
140°	47.6	47.6	42.9	61.9	66.7
142.5°	42.9	47.6	42.9	57.2	61.9
145°	42.9	47.6	47.6	52.4	57.2
147.5°	47.6	47.6	47.6	47.6	52.4
150°	47.6	47.6	47.6	47.6	47.6
152.5°	47.6	47.6	47.6	47.6	47.6
155°	47.6	52.4	52.4	52.4	47.6
157.5°	47.6	52.4	52.4	52.4	52.4
160°	47.6	52.4	52.4	52.4	52.4
162.5°	52.4	52.4	52.4	52.4	52.4
165°	52.4	52.4	52.4	52.4	52.4
167.5°	52.4	57.2	52.4	52.4	52.4
170°	52.4	52.4	52.4	47.6	47.6
172.5°	52.4	52.4	52.4	47.6	47.6
175°	52.4	52.4	47.6	42.9	42.9
177.5°	57.2	52.4	47.6	42.9	38.1
180°	47.6	47.6	47.6	47.6	47.6



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	23.8	90.5	233.5	281.1	290.6
110°	28.6	76.2	195.3	238.2	247.8



(END OF REPORT)