

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: P829679

Luminaire Tested: **OHBL-100SE-MCL-UNV-L930-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829679
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-L930-CD
Description: 100000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 3000K LEDS AND MEDIUM CLEAR LENS
Light Source: -
Ballast/Driver: -

Summary

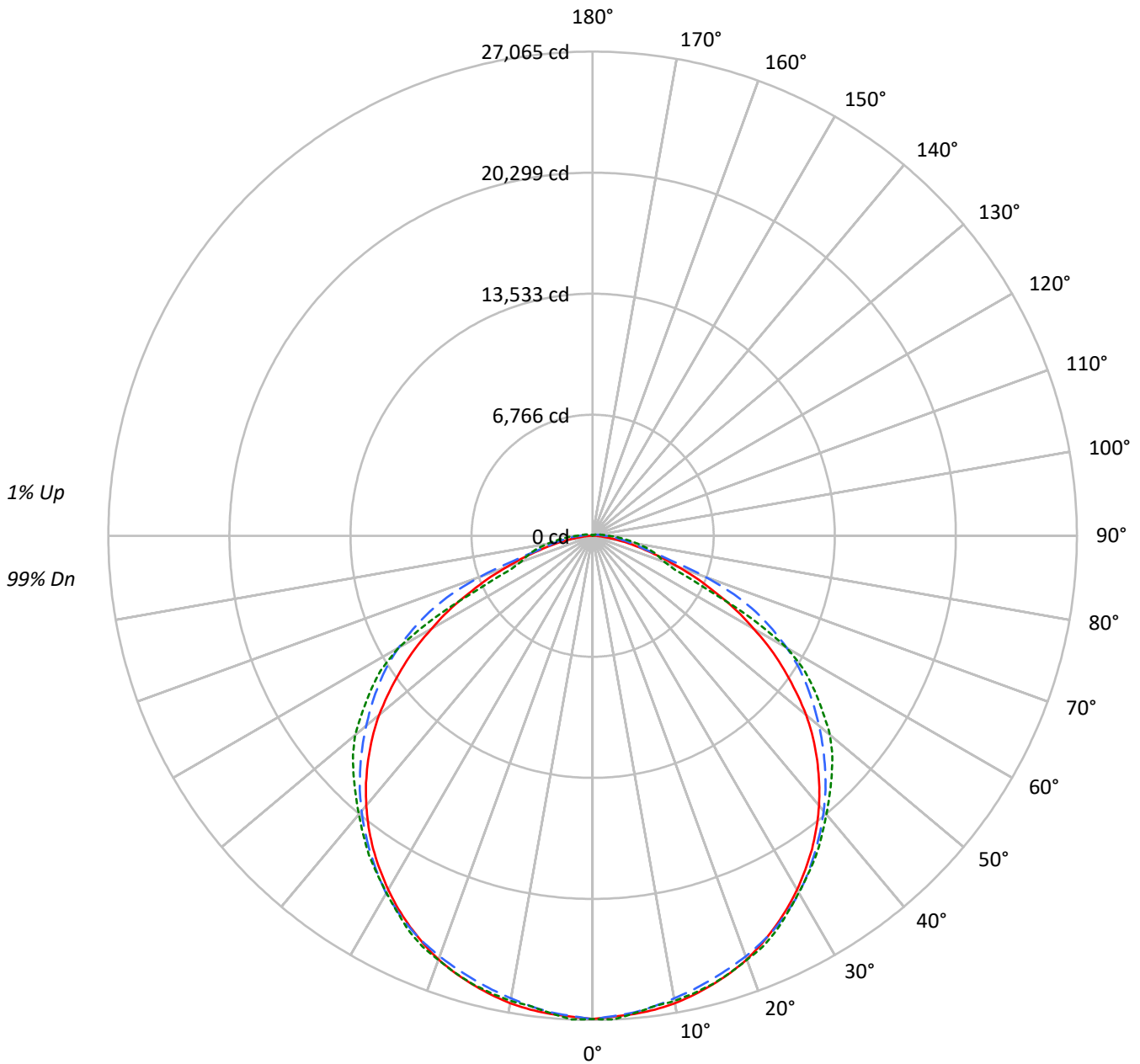
Lumens per Lamp: N/A
Luminaire Lumens: 76344.0 lumens
Efficiency: N/A
Efficacy: 129.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

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°	42717	42717	42717
5°	42437	42096	42185
10°	42282	41458	41716
15°	42013	40982	41437
20°	41745	40681	41070
25°	41242	40379	40706
30°	40693	39902	39936
35°	40038	39145	39512
40°	39187	38364	38933
45°	38007	37459	38677
50°	36407	36430	38371
55°	33867	35417	36939
60°	30539	33935	34150
65°	26197	31184	21643
70°	21101	24343	15691
75°	15820	14451	15926
80°	11012	12016	15205
85°	6267	11010	14252



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2546.9	3.3
10°-20°	7303.2	9.6
20°-30°	11154.2	14.6
30°-40°	13533.9	17.7
40°-50°	14184.8	18.6
50°-60°	12853.6	16.8
60°-70°	8617.8	11.3
70°-80°	3869.8	5.1
80°-90°	1404.3	1.8
90°-100°	422.7	0.6
100°-110°	199.4	0.3
110°-120°	100.0	0.1
120°-130°	55.1	0.1
130°-140°	37.9	0.0
140°-150°	25.5	0.0
150°-160°	19.0	0.0
160°-170°	12.2	0.0
170°-180°	3.9	0.0
0°-30°	21004.2	27.5
0°-40°	34538.1	45.2
0°-60°	61576.5	80.7
0°-90°	75468.3	98.9
90°-120°	722.1	0.9
90°-150°	840.7	1.1
90°-180°	876.0	1.1
0°-180°	76344.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	27011	27011	27011	27011	27011	
5°	26835	26929	26741	26823	26788	###
15°	25964	25862	25679	25905	25937	7331
25°	24120	24015	24183	24406	24335	11118
35°	21379	21430	21648	21879	21793	13362
45°	17743	18032	18368	18836	18895	13668
55°	13056	13685	14618	15204	15169	11654
65°	7663	8862	10061	8491	6932	7635
75°	3015	4374	3218	3292	3507	3295
85°	519	996	1277	1543	1617	634
90°	4	332	660	828	867	31
95°	4	207	453	551	566	5
105°	16	90	223	270	281	18
115°	31	47	113	144	152	29
125°	27	31	70	82	86	27
135°	35	39	43	62	66	28
145°	35	39	39	43	47	23
155°	39	43	43	43	39	18
165°	43	43	43	43	43	12
175°	43	43	39	35	35	4
180°	39	39	39	39	39	



TEST NUMBER: P829679

CATALOG NUMBER: OHBL-100SE-MCL-UNV-L930-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	27010.6	27010.6	27010.6	27010.6	27010.6
2.5°	26901.2	27014.5	26873.9	27026.2	27065.2
5°	26834.8	26928.6	26741.1	26823.1	26788.0
7.5°	26713.8	26745.0	26522.4	26588.8	26518.5
10°	26534.1	26518.5	26256.8	26385.7	26401.3
12.5°	26268.5	26221.7	25987.3	26182.6	26186.5
15°	25963.9	25862.3	25678.8	25905.3	25936.6
17.5°	25612.4	25479.6	25358.5	25651.5	25604.6
20°	25202.3	25046.1	25022.7	25342.9	25225.7
22.5°	24694.6	24573.5	24628.2	24932.8	24858.6
25°	24120.5	24015.0	24183.0	24405.6	24335.3
27.5°	23515.1	23452.6	23644.0	23815.9	23679.2
30°	22851.2	22816.0	23069.9	23210.5	23038.7
32.5°	22128.7	22140.4	22382.5	22573.9	22413.8
35°	21378.8	21429.6	21648.3	21878.7	21792.8
37.5°	20554.7	20668.0	20886.7	21148.4	21058.6
40°	19683.8	19847.8	20090.0	20406.3	20324.3
42.5°	18742.6	18949.6	19262.0	19613.5	19605.7
45°	17742.8	18031.8	18367.7	18836.3	18894.9
47.5°	16703.9	17028.1	17453.8	18078.6	18168.5
50°	15575.2	15981.4	16512.5	17262.4	17317.1
52.5°	14317.6	14872.2	15575.2	16293.8	16227.4
55°	13056.2	13684.9	14618.4	15204.2	15169.0
57.5°	11798.6	12505.5	13638.1	14056.0	14052.1
60°	10392.6	11287.0	12525.0	12841.3	12528.9
62.5°	9092.0	10052.8	11337.7	11107.3	10037.2
65°	7662.6	8861.6	10060.6	8490.6	6932.3
67.5°	6393.3	7643.1	8545.3	5815.3	4979.5
70°	5116.2	6494.9	6662.8	4315.6	4257.0
72.5°	3983.6	5452.1	4596.8	3694.6	3882.1
75°	3015.1	4374.2	3218.1	3292.4	3507.2
77.5°	2198.8	3358.7	2503.4	2886.2	3061.9
80°	1511.4	2378.5	2042.6	2425.3	2546.4
82.5°	949.0	1570.0	1636.4	1952.8	2077.7
85°	519.4	995.9	1277.1	1542.7	1616.9
87.5°	214.8	601.4	976.4	1191.2	1253.7
90°	3.9	332.0	660.0	828.0	867.0
92.5°	3.9	253.9	539.0	667.8	695.2
95°	3.9	207.0	453.0	550.7	566.3
97.5°	7.8	164.0	378.8	456.9	472.6
100°	11.7	136.7	316.3	382.7	394.5
102.5°	15.6	109.4	265.6	320.3	332.0
105°	15.6	89.8	222.6	269.5	281.2



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CATALOG NUMBER: OHBL-100SE-MCL-UNV-L930-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	27.3	54.7	132.8	167.9	175.7
115°	31.2	46.9	113.3	144.5	152.3
117.5°	31.2	39.1	97.6	121.1	128.9
120°	31.2	35.1	85.9	105.4	109.4
122.5°	31.2	31.2	74.2	93.7	97.6
125°	27.3	31.2	70.3	82.0	85.9
127.5°	31.2	31.2	62.5	74.2	78.1
130°	31.2	35.1	54.7	70.3	70.3
132.5°	35.1	39.1	50.8	66.4	66.4
135°	35.1	39.1	43.0	62.5	66.4
137.5°	39.1	39.1	39.1	58.6	62.5
140°	39.1	39.1	35.1	50.8	54.7
142.5°	35.1	39.1	35.1	46.9	50.8
145°	35.1	39.1	39.1	43.0	46.9
147.5°	39.1	39.1	39.1	39.1	43.0
150°	39.1	39.1	39.1	39.1	39.1
152.5°	39.1	39.1	39.1	39.1	39.1
155°	39.1	43.0	43.0	43.0	39.1
157.5°	39.1	43.0	43.0	43.0	43.0
160°	39.1	43.0	43.0	43.0	43.0
162.5°	43.0	43.0	43.0	43.0	43.0
165°	43.0	43.0	43.0	43.0	43.0
167.5°	43.0	46.9	43.0	43.0	43.0
170°	43.0	43.0	43.0	39.1	39.1
172.5°	43.0	43.0	43.0	39.1	39.1
175°	43.0	43.0	39.1	35.1	35.1
177.5°	46.9	43.0	39.1	35.1	31.2
180°	39.1	39.1	39.1	39.1	39.1



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	19.5	74.2	191.4	230.4	238.2
110°	23.4	62.5	160.1	195.3	203.1



(END OF REPORT)