

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: P829715

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829715
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-100SE-NL-UNV-L930-CD
Description: 100000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 3000K LEDS AND NO LENS
Light Source: -
Ballast/Driver: -

Summary

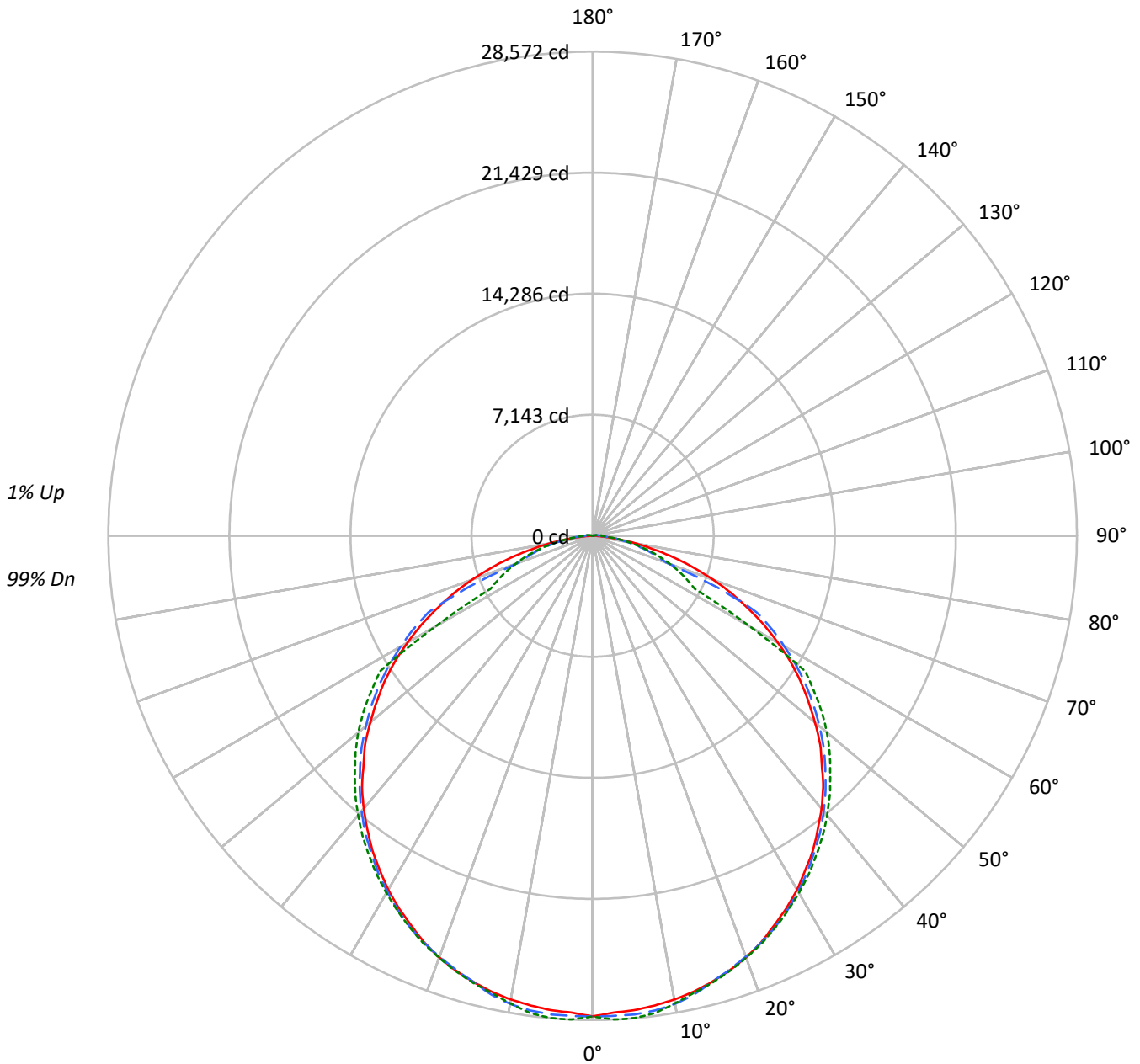
Lumens per Lamp: N/A
Luminaire Lumens: 79633.0 lumens
Efficiency: N/A
Efficacy: 134.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular (W 1.8' x L: 3.78' x H: 0')
CIE Type: Direct

Input Watts (W): 590.1
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°	44856	44856	44856
5°	44608	45011	45351
10°	44620	45044	44988
15°	44613	44605	44702
20°	44552	44484	44594
25°	44247	44473	44508
30°	44042	44269	44443
35°	43757	43997	44410
40°	43379	43790	44437
45°	42754	43399	44346
50°	42109	42967	44387
55°	41303	42374	43898
60°	39920	41337	34175
65°	37769	39966	23000
70°	34933	21216	22322
75°	30470	20161	21317
80°	23432	18494	19536
85°	11827	18692	19142



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2694.6	3.4
10°-20°	7715.4	9.7
20°-30°	11739.6	14.7
30°-40°	14273.8	17.9
40°-50°	15008.2	18.8
50°-60°	13704.3	17.2
60°-70°	8785.1	11.0
70°-80°	4150.0	5.2
80°-90°	1150.7	1.4
90°-100°	304.7	0.4
100°-110°	83.5	0.1
110°-120°	23.1	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°	22149.7	27.8
0°-40°	36423.4	45.7
0°-60°	65135.9	81.8
0°-90°	79221.7	99.5
90°-120°	411.3	0.5
90°-150°	411.3	0.5
90°-180°	411.0	0.5
0°-180°	79633.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	28363	28363	28363	28363	28363	
5°	28099	28209	28353	28508	28567	###
15°	27248	27452	27244	27283	27303	7693
25°	25357	25397	25486	25526	25506	11701
35°	22665	22530	22789	23068	23003	14164
45°	19116	19081	19405	19862	19828	14775
55°	14980	14866	15368	15881	15921	13360
65°	10093	10093	10680	6126	6146	10006
75°	4987	5082	3300	3474	3489	5257
85°	652	826	1030	1115	1055	963
90°	0	279	458	542	533	29
95°	15	144	329	443	443	8
105°	25	55	80	80	75	25
115°	25	35	50	35	5	18
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



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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	28363.2	28363.2	28363.2	28363.2	28363.2
2.5°	28164.1	28258.9	28363.2	28497.6	28571.9
5°	28099.2	28208.8	28353.2	28507.6	28567.1
7.5°	27960.1	28114.0	28253.6	28363.2	28398.0
10°	27785.7	27970.1	28049.7	28039.7	28014.9
12.5°	27551.8	27746.2	27721.4	27606.6	27626.6
15°	27248.3	27452.2	27243.5	27283.1	27303.1
17.5°	26890.0	27089.1	26845.2	26924.8	26930.0
20°	26472.1	26621.2	26432.1	26496.9	26496.9
22.5°	25969.5	26073.8	25994.2	26039.0	26049.0
25°	25357.2	25396.7	25486.3	25526.3	25506.3
27.5°	24770.2	24720.1	24894.6	24988.9	24938.8
30°	24117.9	24038.3	24242.2	24396.6	24337.1
32.5°	23371.2	23321.7	23555.7	23739.6	23704.8
35°	22664.7	22530.3	22789.0	23067.7	23002.9
37.5°	21828.4	21748.9	22042.4	22336.4	22301.6
40°	21012.3	20877.9	21211.4	21559.7	21524.9
42.5°	20136.5	19976.9	20340.4	20758.8	20718.8
45°	19115.9	19081.1	19404.6	19862.5	19827.8
47.5°	18210.7	18036.2	18488.9	18932.0	18972.0
50°	17115.2	17050.9	17464.0	18001.5	18041.0
52.5°	16045.6	16000.8	16433.4	16976.1	17045.7
55°	14980.1	14865.8	15368.5	15881.2	15921.2
57.5°	13841.0	13721.4	14234.0	14791.5	14875.8
60°	12621.2	12506.8	13069.0	13587.0	10804.9
62.5°	11401.9	11322.3	11909.8	8435.9	6798.8
65°	10093.0	10093.0	10680.0	6126.4	6146.4
67.5°	8869.0	8789.4	7963.2	5504.1	5504.1
70°	7554.9	7584.9	4588.4	4822.8	4827.6
72.5°	6236.0	6345.6	3961.9	4150.5	4160.5
75°	4986.7	5081.6	3299.5	3473.9	3488.7
77.5°	3663.1	2816.9	2652.5	2787.4	2792.1
80°	2572.9	1776.8	2030.7	2159.8	2145.1
82.5°	1502.8	1244.0	1488.0	1582.8	1577.6
85°	651.8	826.2	1030.1	1114.9	1054.9
87.5°	208.7	512.7	641.8	691.8	686.6
90°	0.0	278.7	457.9	542.2	532.7
92.5°	0.0	218.7	398.3	497.9	502.7
95°	14.8	144.4	328.8	443.1	443.1
97.5°	10.0	104.3	233.9	348.3	358.3
100°	10.0	84.3	154.4	248.7	254.0
102.5°	24.8	69.6	94.3	159.1	164.4
105°	24.8	54.8	79.6	79.6	74.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	30.0	40.0	54.8	40.0	4.7
115°	24.8	34.8	49.5	34.8	4.7
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°	24.8	49.5	69.6	44.8	14.8
110°	30.0	44.8	59.5	40.0	4.7



(END OF REPORT)