

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: P829728

Luminaire Tested: **OHBL-100SE-W-UNV-L935-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829728
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-100SE-W-UNV-L935-CD
Description: 100000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 3500K LEDS AND WIDE LENS
Light Source: -
Ballast/Driver: -

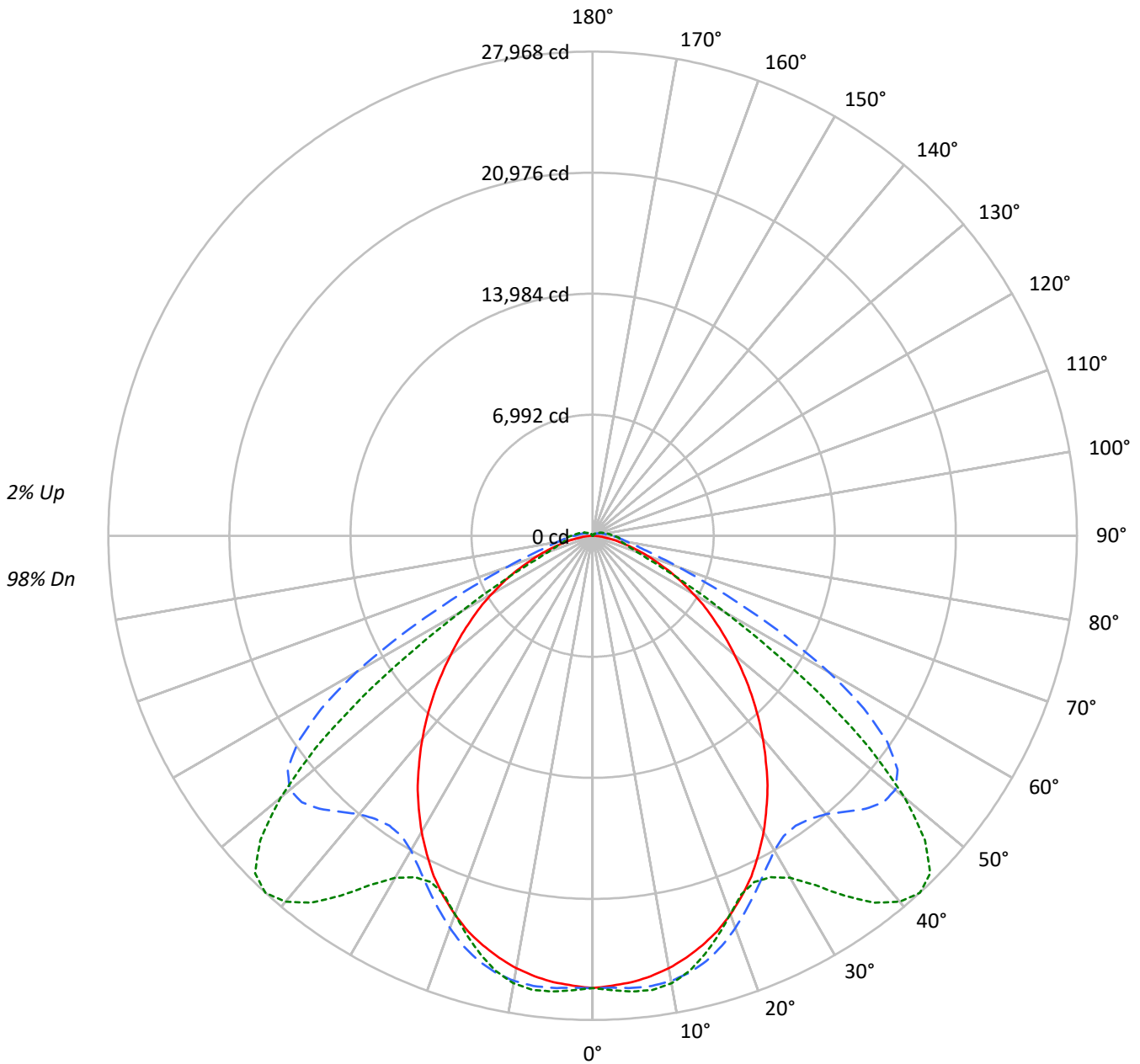
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 78223.0 lumens
Efficiency: N/A
Efficacy: 132.6 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62
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	105	105	105	100	100	100					98															
1	109	104	100	96	106	102	98	95	97	94	91	93	90	88	89	87	85					83															
2	99	91	85	79	96	89	83	78	85	80	76	82	77	74	78	75	72					70															
3	90	80	72	66	88	78	71	65	75	69	64	72	67	62	69	65	61					59															
4	83	71	62	56	80	69	61	55	67	60	54	64	58	53	62	57	52					50															
5	76	63	54	48	74	62	54	47	60	52	47	57	51	46	55	50	45					43															
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	50	44	40					38															
7	65	51	43	36	63	50	42	36	49	41	36	47	40	35	45	40	35					33															
8	60	47	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31					29															
9	56	43	34	29	55	42	34	29	41	34	28	39	33	28	38	32	28					26															
10	52	39	31	26	51	39	31	26	38	31	26	36	30	26	35	30	25					24															

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	41316	41316	41316
5°	40931	41277	41611
10°	40417	41233	41484
15°	39629	40569	39982
20°	38549	39193	37854
25°	37104	37523	36921
30°	35181	36285	39532
35°	32988	36977	46007
40°	30443	40072	52863
45°	27782	45486	56431
50°	25007	50337	52092
55°	22399	50322	39420
60°	19743	42622	23813
65°	16939	29473	14201
70°	13762	19090	10035
75°	10469	13718	9009
80°	7515	12102	9626
85°	5100	13411	13564



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2496.5	3.2
10°-20°	7069.5	9.0
20°-30°	10345.0	13.2
30°-40°	13435.1	17.2
40°-50°	16405.9	21.0
50°-60°	14448.0	18.5
60°-70°	7528.9	9.6
70°-80°	3228.7	4.1
80°-90°	1550.5	2.0
90°-100°	728.5	0.9
100°-110°	452.8	0.6
110°-120°	267.7	0.3
120°-130°	145.5	0.2
130°-140°	73.0	0.1
140°-150°	35.1	0.0
150°-160°	12.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	19911.0	25.5
0°-40°	33346.0	42.6
0°-60°	64199.9	82.1
0°-90°	76508.1	97.8
90°-120°	1449.0	1.9
90°-150°	1702.6	2.2
90°-180°	1715.0	2.2
0°-180°	78223.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	26125	26125	26125	26125	26125	
5°	25883	26080	26221	26452	26424	###
15°	24490	25178	25420	25229	25026	6896
25°	21700	22862	22473	22050	22072	9959
35°	17614	19474	20449	23848	25375	10978
45°	12970	16318	22304	27004	27568	10000
55°	8635	14294	20770	18211	16188	7750
65°	4954	9903	9509	5287	4549	4902
75°	1995	4633	3055	2091	1984	2176
85°	423	1652	1556	1522	1539	471
90°	6	598	1026	1172	1201	29
95°	11	350	817	958	986	8
105°	22	197	530	637	648	24
115°	34	113	327	400	412	35
125°	40	56	192	248	254	34
135°	34	34	90	152	158	26
145°	45	34	40	73	84	26
155°	45	45	34	34	34	14
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	26125.1	26125.1	26125.1	26125.1	26125.1
2.5°	26012.3	26125.1	26130.7	26288.5	26271.6
5°	25882.7	26080.0	26220.9	26452.0	26423.8
7.5°	25668.5	25978.5	26226.5	26480.2	26457.6
10°	25364.1	25786.9	26113.8	26322.3	26254.7
12.5°	24969.6	25527.6	25848.9	25894.0	25764.3
15°	24490.5	25178.1	25420.5	25228.9	25025.9
17.5°	23949.4	24755.4	24839.9	24422.8	24169.2
20°	23273.0	24191.7	24107.2	23532.3	23250.5
22.5°	22523.3	23571.7	23301.2	22698.1	22427.5
25°	21700.4	22861.5	22472.6	22049.9	22072.4
27.5°	20736.6	22055.5	21677.9	21869.5	22230.3
30°	19755.8	21210.0	20979.0	22095.0	22805.2
32.5°	18679.3	20342.0	20550.6	22754.4	23915.6
35°	17614.0	19474.0	20449.1	23847.9	25375.4
37.5°	16436.0	18594.7	20612.6	25110.5	26711.2
40°	15291.8	17738.0	20984.6	26243.4	27596.2
42.5°	14125.0	16971.4	21610.2	26914.2	27968.2
45°	12969.5	16317.6	22303.5	27004.3	27568.0
47.5°	11814.0	15765.2	22782.6	26288.5	26029.2
50°	10698.0	15274.8	22816.4	24569.4	23509.7
52.5°	9655.3	14823.9	22196.4	21830.1	20184.2
55°	8635.1	14294.1	20770.4	18211.4	16188.0
57.5°	7705.1	13561.4	18572.2	14322.3	12112.8
60°	6718.7	12569.3	15731.4	10478.2	8736.5
62.5°	5811.2	11334.9	12546.8	7293.6	6279.0
65°	4954.5	9903.3	9508.7	5287.0	4548.6
67.5°	4047.0	8420.9	7017.4	3855.3	3381.9
70°	3336.8	7045.6	5225.0	2998.6	2722.4
72.5°	2609.7	5737.9	3906.1	2435.0	2282.8
75°	1995.3	4633.2	3055.0	2091.1	1984.0
77.5°	1471.1	3663.7	2457.5	1848.8	1747.3
80°	1031.5	2885.9	2057.3	1651.5	1612.0
82.5°	693.3	2232.0	1752.9	1572.6	1578.2
85°	422.7	1651.5	1555.7	1521.8	1538.8
87.5°	202.9	1172.4	1335.8	1386.6	1403.5
90°	5.6	597.5	1025.8	1172.4	1200.6
92.5°	0.0	456.6	901.8	1048.4	1076.6
95°	11.3	349.5	817.3	958.2	986.4
97.5°	11.3	287.5	732.7	879.3	896.2
100°	16.9	248.0	653.8	794.7	811.7
102.5°	16.9	219.8	586.2	710.2	721.5
105°	22.5	197.3	529.8	636.9	648.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	33.8	135.3	372.0	450.9	462.2
115°	33.8	112.7	326.9	400.2	411.5
117.5°	39.5	101.5	287.5	355.1	360.7
120°	39.5	84.5	248.0	315.6	321.3
122.5°	39.5	67.6	219.8	281.8	287.5
125°	39.5	56.4	191.6	248.0	253.6
127.5°	33.8	39.5	163.5	219.8	225.5
130°	33.8	33.8	135.3	191.6	202.9
132.5°	33.8	33.8	112.7	169.1	180.4
135°	33.8	33.8	90.2	152.2	157.8
137.5°	33.8	33.8	73.3	129.6	140.9
140°	33.8	33.8	56.4	112.7	118.4
142.5°	39.5	33.8	50.7	95.8	101.5
145°	45.1	33.8	39.5	73.3	84.5
147.5°	45.1	39.5	39.5	62.0	67.6
150°	45.1	45.1	33.8	45.1	56.4
152.5°	45.1	45.1	33.8	33.8	45.1
155°	45.1	45.1	33.8	33.8	33.8
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°	28.2	174.7	473.5	569.3	580.6
110°	28.2	152.2	417.1	507.3	518.6



(END OF REPORT)