

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: P829706

Luminaire Tested: **OHBL-100SE-N-UNV-L950-CD**

Issue Date: 5/3/2024



**Test Information**

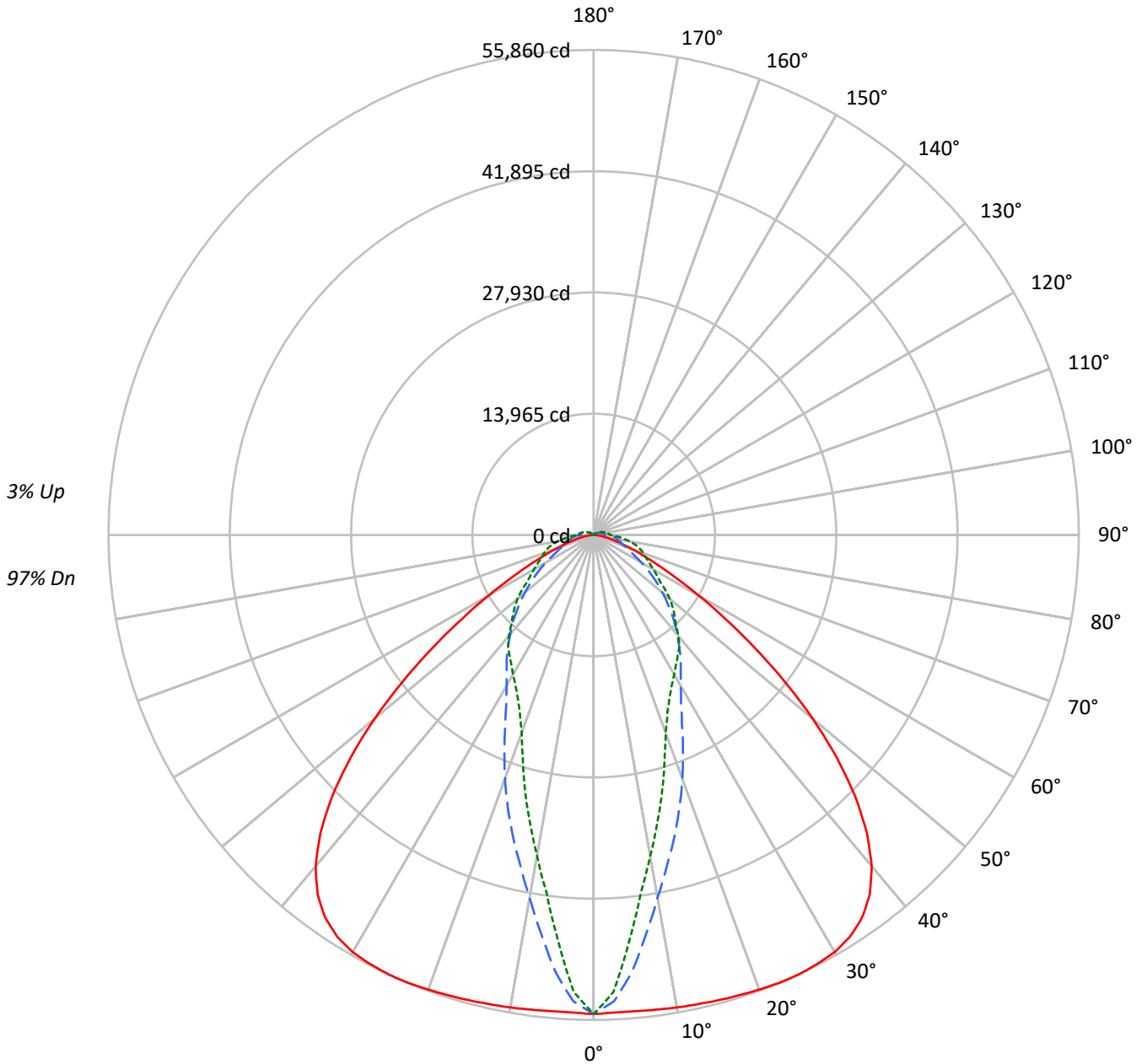
Test Method: LM-79-08  
Report Number: P829706  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-100SE-N-UNV-L950-CD  
Description: 100000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 5000K LEDS AND NARROW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 81443.0 lumens  
Efficiency: N/A  
Efficacy: 138.0 lumens/watt  
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78  
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<sub>in</sub>): 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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	97																	
1	109	104	100	97	106	102	98	95	97	94	91	92	90	88	88	86	85	85	85	82																	
2	100	93	86	81	97	90	85	80	86	82	78	83	79	75	79	76	73	73	73	71																	
3	92	83	75	69	90	81	74	69	78	72	67	74	70	65	72	67	64	64	64	62																	
4	85	74	66	60	83	73	66	60	70	64	59	67	62	57	65	60	56	56	56	54																	
5	79	67	59	53	77	66	59	53	64	57	52	62	56	51	59	54	50	50	50	48																	
6	74	62	53	47	72	60	53	47	58	52	46	56	50	46	55	49	45	45	45	43																	
7	69	56	48	43	67	55	48	42	54	47	42	52	46	41	50	45	41	41	41	39																	
8	65	52	44	39	63	51	44	39	50	43	38	48	42	38	47	41	37	37	37	35																	
9	61	48	41	35	59	47	40	35	46	40	35	45	39	35	44	38	34	34	34	32																	
10	57	45	37	33	56	44	37	32	43	37	32	42	36	32	41	35	32	32	32	30																	

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	87269	87269	87269
5°	87091	79510	73938
10°	88074	67004	59325
15°	89794	57331	48724
20°	92316	48498	39435
25°	95509	40163	34578
30°	98811	34618	32146
35°	100867	31567	30651
40°	99141	28532	29105
45°	91205	25802	26973
50°	76949	22814	25346
55°	58470	20002	22586
60°	40975	17175	21659
65°	27562	14814	21250
70°	18823	13931	22359
75°	13062	14409	23991
80°	8992	16034	24869
85°	5259	20238	26433



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	4645.2	5.7
10°-20°	10927.5	13.4
20°-30°	13697.5	16.8
30°-40°	14534.6	17.8
40°-50°	13141.6	16.1
50°-60°	9528.5	11.7
60°-70°	5979.6	7.3
70°-80°	3957.1	4.9
80°-90°	2279.7	2.8
90°-100°	1104.4	1.4
100°-110°	762.3	0.9
110°-120°	470.4	0.6
120°-130°	227.8	0.3
130°-140°	104.8	0.1
140°-150°	57.2	0.1
150°-160°	24.9	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	29270.1	35.9
0°-40°	43804.7	53.8
0°-60°	66474.7	81.6
0°-90°	78691.1	96.6
90°-120°	2337.2	2.9
90°-150°	2727.0	3.3
90°-180°	2752.0	3.4
0°-180°	81443.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	55182	55182	55182	55182	55182	
5°	55072	53659	50508	48165	46952	###
15°	55492	45230	35923	31948	30498	15737
25°	55860	34973	24054	21349	20672	25806
35°	53858	23250	17457	16911	16906	33481
45°	42577	14726	12652	12956	13177	32435
55°	22541	9128	8256	8954	9275	20367
65°	8062	5294	4779	6124	6806	8389
75°	2489	2852	3209	4984	5283	2775
85°	436	1182	2348	3267	2999	523
90°	0	494	1360	1917	1933	28
95°	21	347	1197	1628	1702	19
105°	42	231	872	1155	1187	42
115°	58	163	588	735	751	57
125°	63	84	299	378	373	55
135°	52	63	131	205	205	41
145°	63	68	79	121	116	38
155°	63	79	84	89	79	19
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°	55182.0	55182.0	55182.0	55182.0	55182.0
2.5°	55066.4	54751.3	53769.2	53170.5	52666.3
5°	55071.7	53658.9	50507.8	48165.4	46952.2
7.5°	55150.5	52009.8	46332.5	42913.5	41579.5
10°	55271.3	49966.8	42435.6	38790.7	37546.0
12.5°	55360.5	47666.5	39006.0	35261.4	33895.9
15°	55491.8	45229.6	35923.2	31947.5	30497.9
17.5°	55612.6	42934.5	32877.1	28722.8	27110.4
20°	55733.4	40460.8	29830.9	25550.6	24221.9
22.5°	55849.0	37850.6	26858.3	23087.5	22178.9
25°	55859.5	34972.6	24053.8	21349.1	20671.6
27.5°	55722.9	31989.5	21779.7	19894.3	19474.1
30°	55486.6	29095.7	20015.1	18843.9	18544.5
32.5°	54898.4	26144.1	18649.6	17830.3	17657.0
35°	53858.5	23250.3	17457.4	16911.2	16905.9
37.5°	52219.9	20682.1	16165.4	16070.9	16186.4
40°	49798.8	18434.3	14941.7	15193.8	15193.8
42.5°	46568.8	16480.5	13833.6	14090.9	14022.6
45°	42577.4	14726.4	12651.9	12956.5	13177.1
47.5°	37950.4	13182.3	11443.9	12032.2	12336.8
50°	32919.1	11711.8	10341.0	11092.1	11438.7
52.5°	27646.1	10351.5	9264.4	10125.7	10404.1
55°	22541.3	9127.8	8256.0	8954.5	9274.9
57.5°	17919.6	7961.9	7268.7	7930.4	8592.1
60°	13943.9	6958.8	6339.1	7284.4	7946.2
62.5°	10650.9	6066.0	5467.3	6680.4	7342.2
65°	8061.7	5293.9	4779.3	6123.7	6806.5
67.5°	6076.5	4626.9	4243.6	5719.3	6386.3
70°	4563.9	3981.0	3812.9	5467.3	6066.0
72.5°	3371.7	3387.5	3471.5	5246.7	5703.6
75°	2489.4	2851.8	3208.9	4984.1	5283.4
77.5°	1780.4	2363.4	2972.6	4669.0	4774.0
80°	1234.2	1927.5	2725.7	4254.1	4164.8
82.5°	772.0	1544.1	2505.2	3797.1	3550.3
85°	435.9	1181.7	2347.6	3266.7	2998.8
87.5°	194.3	882.3	2053.5	2547.2	2379.1
90°	0.0	493.7	1360.2	1917.0	1932.7
92.5°	10.5	409.7	1255.2	1754.1	1806.7
95°	21.0	346.6	1197.4	1628.1	1701.6
97.5°	26.3	304.6	1123.9	1512.6	1575.6
100°	31.5	273.1	1034.6	1391.8	1444.3
102.5°	36.8	252.1	950.6	1265.7	1307.7
105°	42.0	231.1	871.8	1155.4	1186.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	52.5	178.6	656.5	829.8	856.1
115°	57.8	162.8	588.2	735.3	751.0
117.5°	63.0	141.8	514.7	646.0	651.2
120°	63.0	126.0	441.2	551.5	551.5
122.5°	63.0	105.0	367.6	456.9	451.7
125°	63.0	84.0	299.4	378.1	372.9
127.5°	57.8	68.3	241.6	315.1	309.9
130°	57.8	68.3	194.3	267.8	267.8
132.5°	52.5	63.0	157.6	231.1	231.1
135°	52.5	63.0	131.3	204.8	204.8
137.5°	52.5	68.3	110.3	178.6	178.6
140°	52.5	63.0	94.5	157.6	157.6
142.5°	57.8	63.0	84.0	136.6	136.6
145°	63.0	68.3	78.8	120.8	115.5
147.5°	63.0	73.5	78.8	105.0	99.8
150°	63.0	78.8	78.8	94.5	89.3
152.5°	63.0	78.8	78.8	89.3	84.0
155°	63.0	78.8	84.0	89.3	78.8
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°	42.0	215.3	798.3	1034.6	1071.4
110°	47.3	194.3	730.0	924.3	961.1



(END OF REPORT)