

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: P829702

Luminaire Tested: **OHBL-100SE-N-UNV-L850-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829702
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-L850-CD
Description: 100000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 5000K LEDS AND NARROW LENS
Light Source: -
Ballast/Driver: -

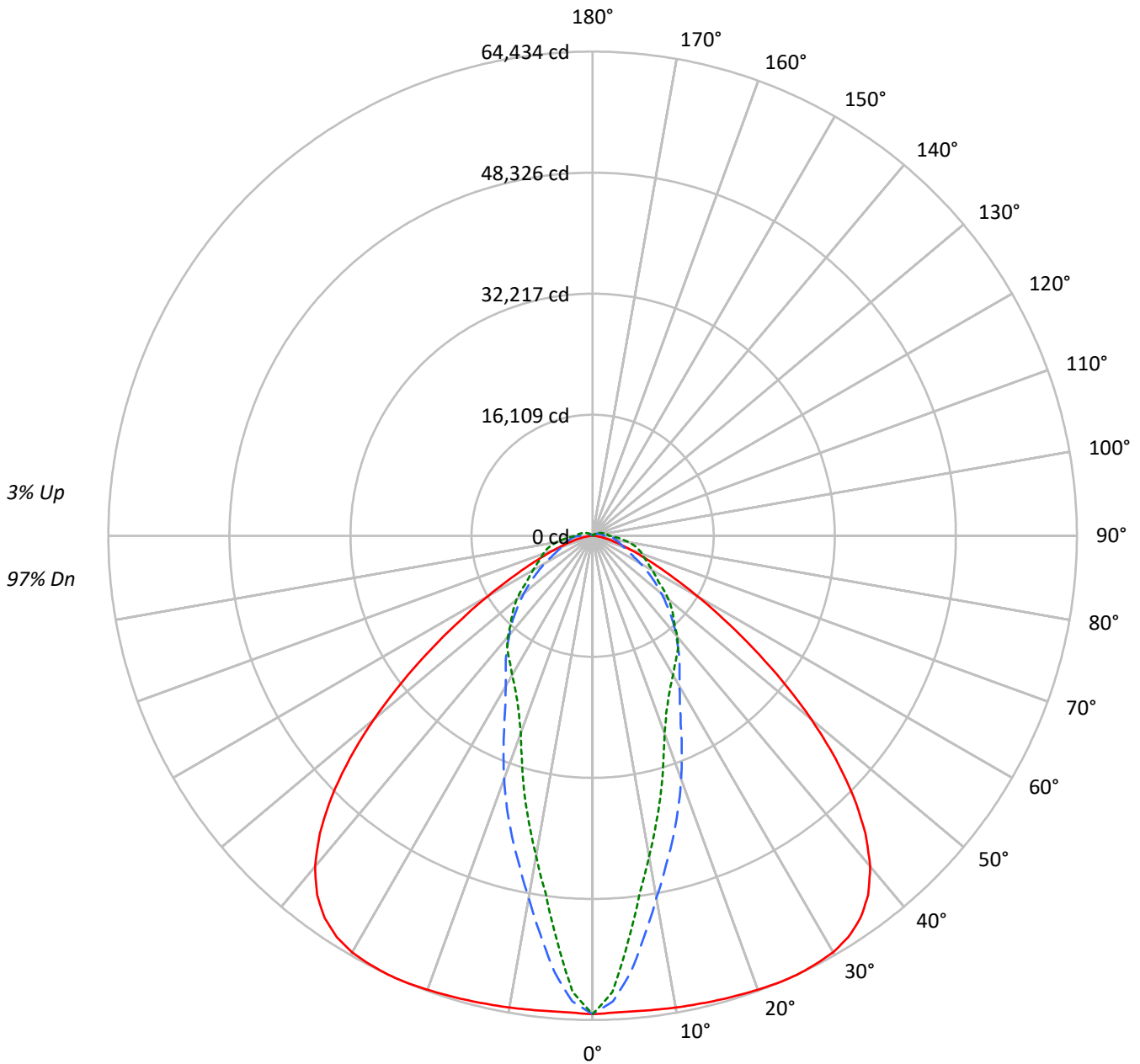
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 93945.0 lumens
Efficiency: N/A
Efficacy: 159.2 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_{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					20					
RC	80					70					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	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	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	85	85	85	85	82		
2	100	93	86	81	97	90	85	80	86	82	78	83	79	75	79	76	73	73	73	73	73	73	73	71		
3	92	83	75	69	90	81	74	69	78	72	67	74	70	65	72	67	64	64	64	64	64	64	64	62		
4	85	74	66	60	83	73	66	60	70	64	59	67	62	57	65	60	56	56	56	56	56	56	56	54		
5	79	67	59	53	77	66	59	53	64	57	52	62	56	51	59	54	50	50	50	50	50	50	50	48		
6	74	62	53	47	72	60	53	47	58	52	46	56	50	46	55	49	45	45	45	45	45	45	45	43		
7	69	56	48	43	67	55	48	42	54	47	42	52	46	41	50	45	41	41	41	41	41	41	41	39		
8	65	52	44	39	63	51	44	39	50	43	38	48	42	38	47	41	37	37	37	37	37	37	37	35		
9	61	48	41	35	59	47	40	35	46	40	35	45	39	35	44	38	34	34	34	34	34	34	34	32		
10	57	45	37	33	56	44	37	32	43	37	32	42	36	32	41	35	32	32	32	32	32	32	32	30		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	100665	100665	100665
5°	100460	91715	85288
10°	101594	77290	68432
15°	103578	66131	56203
20°	106488	55943	45489
25°	110171	46328	39886
30°	113979	39932	37080
35°	116351	36413	35357
40°	114359	32913	33573
45°	105206	29763	31114
50°	88761	26317	29236
55°	67445	23073	26053
60°	47265	19811	24984
65°	31793	17088	24512
70°	21713	16069	25791
75°	15067	16621	27674
80°	10373	18496	28686
85°	6067	23345	30492



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5358.2	5.7
10°-20°	12604.9	13.4
20°-30°	15800.1	16.8
30°-40°	16765.7	17.8
40°-50°	15158.9	16.1
50°-60°	10991.2	11.7
60°-70°	6897.5	7.3
70°-80°	4564.5	4.9
80°-90°	2629.7	2.8
90°-100°	1274.0	1.4
100°-110°	879.3	0.9
110°-120°	542.6	0.6
120°-130°	262.8	0.3
130°-140°	120.9	0.1
140°-150°	66.0	0.1
150°-160°	28.7	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	33763.3	35.9
0°-40°	50529.0	53.8
0°-60°	76679.0	81.6
0°-90°	90770.7	96.6
90°-120°	2695.9	2.9
90°-150°	3145.6	3.3
90°-180°	3174.0	3.4
0°-180°	93945.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	63653	63653	63653	63653	63653	
5°	63526	61896	58261	55559	54160	###
15°	64010	52173	41438	36852	35180	18153
25°	64434	40341	27746	24626	23845	29768
35°	62126	26819	20137	19507	19501	38621
45°	49113	16987	14594	14945	15200	37414
55°	26002	10529	9523	10329	10699	23493
65°	9299	6107	5513	7064	7851	9677
75°	2872	3290	3702	5749	6094	3201
85°	503	1363	2708	3768	3459	603
90°	0	570	1569	2211	2229	32
95°	24	400	1381	1878	1963	21
105°	48	267	1006	1333	1369	49
115°	67	188	678	848	866	65
125°	73	97	345	436	430	63
135°	61	73	152	236	236	48
145°	73	79	91	139	133	44
155°	73	91	97	103	91	22
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°	63652.7	63652.7	63652.7	63652.7	63652.7
2.5°	63519.5	63156.0	62023.1	61332.5	60750.9
5°	63525.5	61895.9	58261.0	55559.1	54159.7
7.5°	63616.4	59993.6	53444.8	49501.0	47962.2
10°	63755.7	57637.0	48949.7	44745.3	43309.6
12.5°	63858.7	54983.6	44993.7	40674.3	39099.2
15°	64010.2	52172.6	41437.6	36851.6	35179.5
17.5°	64149.5	49525.2	37923.9	33131.9	31272.1
20°	64288.9	46671.8	34410.2	29472.8	27940.1
22.5°	64422.1	43660.9	30981.3	26631.5	25583.5
25°	64434.2	40341.1	27746.2	24626.3	23844.8
27.5°	64276.7	36900.1	25123.1	22948.2	22463.5
30°	64004.1	33562.0	23087.5	21736.6	21391.2
32.5°	63325.6	30157.4	21512.4	20567.3	20367.4
35°	62126.1	26819.3	20137.2	19507.2	19501.1
37.5°	60236.0	23856.9	18646.9	18537.9	18671.1
40°	57443.2	21264.0	17235.4	17526.2	17526.2
42.5°	53717.4	19010.4	15957.1	16254.0	16175.2
45°	49113.2	16987.0	14594.0	14945.4	15199.8
47.5°	43776.0	15205.9	13200.7	13879.2	14230.5
50°	37972.3	13509.6	11928.5	12794.8	13194.6
52.5°	31890.0	11940.6	10686.5	11680.1	12001.2
55°	26001.5	10529.0	9523.4	10329.1	10698.7
57.5°	20670.3	9184.1	8384.4	9147.8	9911.1
60°	16084.3	8027.0	7312.2	8402.6	9165.9
62.5°	12285.9	6997.1	6306.5	7705.9	8469.3
65°	9299.2	6106.6	5512.9	7063.8	7851.3
67.5°	7009.3	5337.2	4895.0	6597.3	7366.7
70°	5264.5	4592.1	4398.2	6306.5	6997.1
72.5°	3889.3	3907.5	4004.4	6052.1	6579.1
75°	2871.6	3289.6	3701.5	5749.2	6094.5
77.5°	2053.7	2726.2	3428.9	5385.7	5506.8
80°	1423.7	2223.3	3144.2	4907.1	4804.1
82.5°	890.5	1781.1	2889.7	4380.0	4095.3
85°	502.8	1363.1	2708.0	3768.2	3459.2
87.5°	224.2	1017.8	2368.7	2938.2	2744.3
90°	0.0	569.5	1569.1	2211.2	2229.4
92.5°	12.1	472.5	1447.9	2023.4	2084.0
95°	24.2	399.8	1381.3	1878.0	1962.8
97.5°	30.3	351.4	1296.4	1744.7	1817.4
100°	36.3	315.0	1193.5	1605.4	1666.0
102.5°	42.4	290.8	1096.5	1460.0	1508.5
105°	48.5	266.6	1005.6	1332.8	1369.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	60.6	206.0	757.3	957.2	987.5
115°	66.6	187.8	678.5	848.1	866.3
117.5°	72.7	163.6	593.7	745.1	751.2
120°	72.7	145.4	508.9	636.1	636.1
122.5°	72.7	121.2	424.1	527.1	521.0
125°	72.7	96.9	345.3	436.2	430.1
127.5°	66.6	78.8	278.7	363.5	357.4
130°	66.6	78.8	224.2	309.0	309.0
132.5°	60.6	72.7	181.7	266.6	266.6
135°	60.6	72.7	151.5	236.3	236.3
137.5°	60.6	78.8	127.2	206.0	206.0
140°	60.6	72.7	109.0	181.7	181.7
142.5°	66.6	72.7	96.9	157.5	157.5
145°	72.7	78.8	90.9	139.3	133.3
147.5°	72.7	84.8	90.9	121.2	115.1
150°	72.7	90.9	90.9	109.0	103.0
152.5°	72.7	90.9	90.9	103.0	96.9
155°	72.7	90.9	96.9	103.0	90.9
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°	48.5	248.4	920.8	1193.5	1235.9
110°	54.5	224.2	842.1	1066.2	1108.6



(END OF REPORT)