

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: P829678

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829678
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-L850-CD
Description: 100000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 5000K LEDS AND MEDIUM CLEAR LENS
Light Source: -
Ballast/Driver: -

Summary

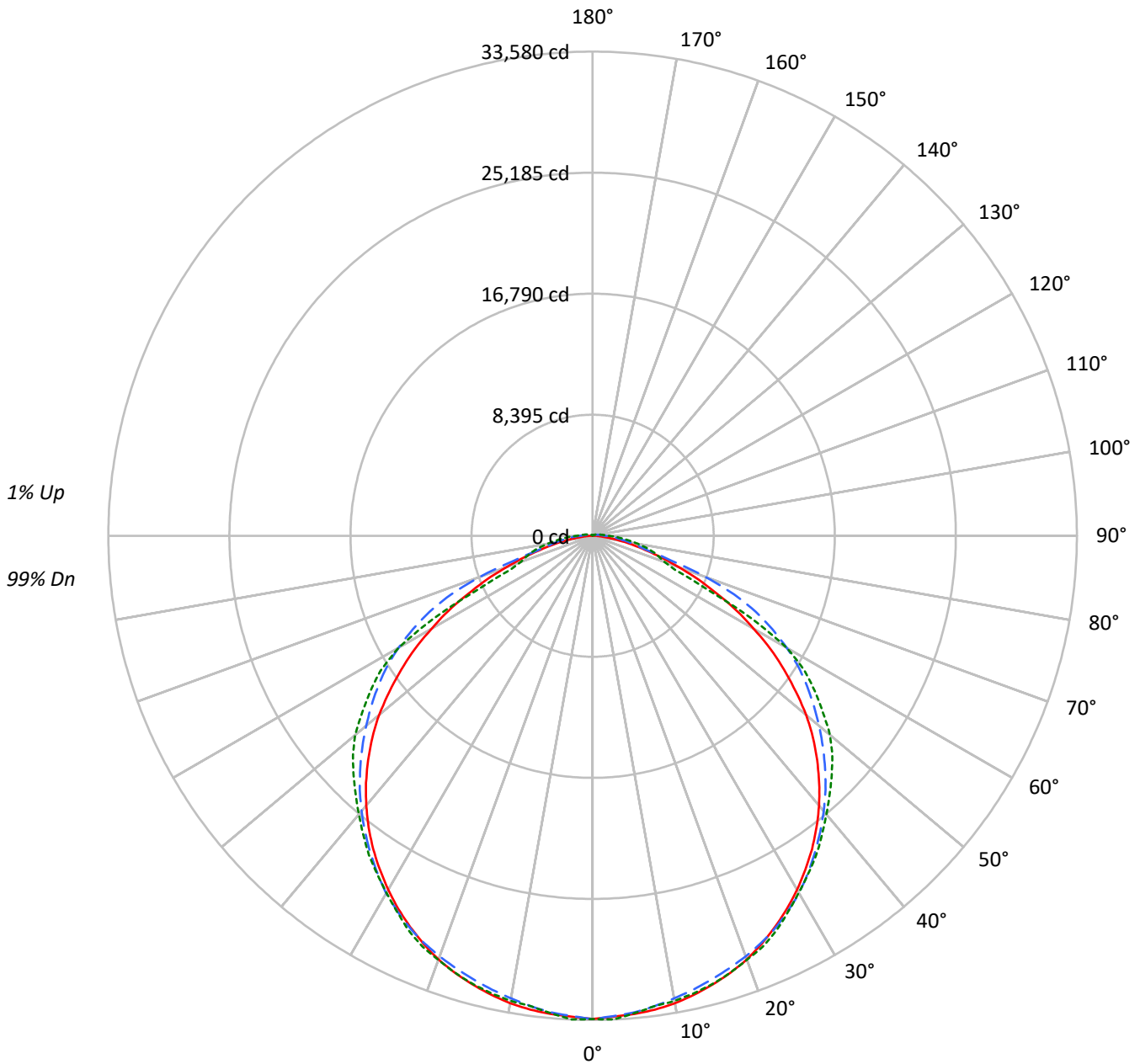
Lumens per Lamp: N/A
Luminaire Lumens: 94721.0 lumens
Efficiency: N/A
Efficacy: 160.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 590.1
Input Voltage (V): NR
Input Current (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	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°	52999	52999	52999
5°	52652	52229	52339
10°	52459	51438	51758
15°	52127	50846	51411
20°	51793	50474	50956
25°	51169	50098	50505
30°	50489	49507	49549
35°	49676	48568	49022
40°	48620	47598	48305
45°	47156	46476	47988
50°	45171	45199	47607
55°	42018	43942	45830
60°	37890	42103	42371
65°	32503	38690	26853
70°	26181	30203	19468
75°	19628	17930	19759
80°	13663	14908	18865
85°	7776	13660	17683



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3159.9	3.3
10°-20°	9061.1	9.6
20°-30°	13839.2	14.6
30°-40°	16791.7	17.7
40°-50°	17599.3	18.6
50°-60°	15947.6	16.8
60°-70°	10692.2	11.3
70°-80°	4801.3	5.1
80°-90°	1742.3	1.8
90°-100°	524.4	0.6
100°-110°	247.5	0.3
110°-120°	124.0	0.1
120°-130°	68.4	0.1
130°-140°	47.0	0.0
140°-150°	31.6	0.0
150°-160°	23.5	0.0
160°-170°	15.1	0.0
170°-180°	4.8	0.0
0°-30°	26060.2	27.5
0°-40°	42851.9	45.2
0°-60°	76398.7	80.7
0°-90°	93634.6	98.9
90°-120°	895.9	0.9
90°-150°	1043.0	1.1
90°-180°	1086.0	1.1
0°-180°	94721.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	33512	33512	33512	33512	33512	
5°	33294	33411	33178	33280	33236	###
15°	32214	32088	31860	32141	32180	9095
25°	29927	29796	30004	30280	30193	13794
35°	26525	26588	26859	27145	27039	16579
45°	22014	22372	22789	23370	23443	16958
55°	16199	16979	18137	18864	18820	14460
65°	9507	10995	12482	10534	8601	9473
75°	3741	5427	3993	4085	4351	4088
85°	644	1236	1584	1914	2006	786
90°	5	412	819	1027	1076	38
95°	5	257	562	683	703	7
105°	19	111	276	334	349	22
115°	39	58	140	179	189	36
125°	34	39	87	102	107	34
135°	44	48	53	78	82	35
145°	44	48	48	53	58	29
155°	48	53	53	53	48	22
165°	53	53	53	53	53	15
175°	53	53	48	44	44	5
180°	48	48	48	48	48	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	33512.4	33512.4	33512.4	33512.4	<i>33512.4</i>
2.5°	<i>33376.7</i>	<i>33517.2</i>	<i>33342.8</i>	<i>33531.8</i>	<i>33580.2</i>
5°	33294.3	33410.6	33178.0	33279.8	<i>33236.2</i>
7.5°	33144.1	33182.9	32906.7	32989.0	<i>32901.8</i>
10°	32921.2	32901.8	32577.2	32737.1	<i>32756.5</i>
12.5°	32591.7	32533.6	32242.8	32485.1	<i>32489.9</i>
15°	32213.7	32087.8	31860.0	32141.1	<i>32179.8</i>
17.5°	31777.6	31612.9	31462.7	31826.1	<i>31767.9</i>
20°	31268.8	31075.0	31045.9	31443.3	<i>31297.9</i>
22.5°	30638.9	30488.7	30556.5	30934.5	<i>30842.4</i>
25°	29926.6	29795.8	30004.1	30280.3	<i>30193.1</i>
27.5°	29175.5	29098.0	29335.4	29548.6	<i>29379.0</i>
30°	28351.8	28308.2	28623.1	28797.6	<i>28584.4</i>
32.5°	27455.3	27469.9	27770.3	28007.7	<i>27809.1</i>
35°	26525.0	26588.0	26859.3	27145.2	<i>27038.6</i>
37.5°	25502.5	25643.1	25914.4	26239.1	<i>26127.6</i>
40°	24422.0	24625.5	24925.9	25318.4	<i>25216.7</i>
42.5°	23254.2	23511.0	23898.6	24334.7	<i>24325.1</i>
45°	22013.7	22372.3	22789.0	23370.5	<i>23443.2</i>
47.5°	20724.8	21126.9	21655.1	22430.4	<i>22541.9</i>
50°	19324.4	19828.3	20487.3	21417.7	<i>21485.5</i>
52.5°	17764.1	18452.2	19324.4	20216.0	<i>20133.6</i>
55°	16198.9	16979.1	18137.2	18864.0	<i>18820.4</i>
57.5°	14638.6	15515.7	16920.9	17439.4	<i>17434.6</i>
60°	12894.2	14003.9	15539.9	15932.4	<i>15544.8</i>
62.5°	11280.6	12472.6	14066.9	13781.0	<i>12453.3</i>
65°	9507.1	10994.7	12482.3	10534.4	<i>8601.0</i>
67.5°	7932.3	9482.9	10602.2	7215.1	<i>6178.2</i>
70°	6347.8	8058.3	8266.6	5354.4	<i>5281.7</i>
72.5°	4942.5	6764.5	5703.3	4584.0	<i>4816.6</i>
75°	3740.8	5427.1	3992.8	4084.9	<i>4351.4</i>
77.5°	2728.1	4167.2	3106.0	3580.9	<i>3799.0</i>
80°	1875.3	2951.0	2534.3	3009.1	<i>3159.4</i>
82.5°	1177.5	1947.9	2030.3	2422.8	<i>2577.9</i>
85°	644.5	1235.6	1584.5	1914.0	<i>2006.1</i>
87.5°	266.5	746.2	1211.4	1477.9	<i>1555.4</i>
90°	4.8	411.9	818.9	1027.3	<i>1075.7</i>
92.5°	4.8	315.0	668.7	828.6	<i>862.5</i>
95°	4.8	256.8	562.1	683.2	<i>702.6</i>
97.5°	9.7	203.5	470.0	566.9	<i>586.3</i>
100°	14.5	169.6	392.5	474.9	<i>489.4</i>
102.5°	19.4	135.7	329.5	397.3	<i>411.9</i>
105°	19.4	111.4	276.2	334.3	<i>348.9</i>



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	33.9	67.8	164.8	208.4	218.1
115°	38.8	58.1	140.5	179.3	189.0
117.5°	38.8	48.5	121.1	150.2	159.9
120°	38.8	43.6	106.6	130.8	135.7
122.5°	38.8	38.8	92.1	116.3	121.1
125°	33.9	38.8	87.2	101.8	106.6
127.5°	38.8	38.8	77.5	92.1	96.9
130°	38.8	43.6	67.8	87.2	87.2
132.5°	43.6	48.5	63.0	82.4	82.4
135°	43.6	48.5	53.3	77.5	82.4
137.5°	48.5	48.5	48.5	72.7	77.5
140°	48.5	48.5	43.6	63.0	67.8
142.5°	43.6	48.5	43.6	58.1	63.0
145°	43.6	48.5	48.5	53.3	58.1
147.5°	48.5	48.5	48.5	48.5	53.3
150°	48.5	48.5	48.5	48.5	48.5
152.5°	48.5	48.5	48.5	48.5	48.5
155°	48.5	53.3	53.3	53.3	48.5
157.5°	48.5	53.3	53.3	53.3	53.3
160°	48.5	53.3	53.3	53.3	53.3
162.5°	53.3	53.3	53.3	53.3	53.3
165°	53.3	53.3	53.3	53.3	53.3
167.5°	53.3	58.1	53.3	53.3	53.3
170°	53.3	53.3	53.3	48.5	48.5
172.5°	53.3	53.3	53.3	48.5	48.5
175°	53.3	53.3	48.5	43.6	43.6
177.5°	58.1	53.3	48.5	43.6	38.8
180°	48.5	48.5	48.5	48.5	48.5



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	24.2	92.1	237.4	285.9	295.6
110°	29.1	77.5	198.7	242.3	252.0



(END OF REPORT)