

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: P829676

Luminaire Tested: **OHBL-100SE-MCL-UNV-L835-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P829676  
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-L835-CD  
Description: 100000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 3500K LEDS AND MEDIUM CLEAR LENS  
Light Source: -  
Ballast/Driver: -

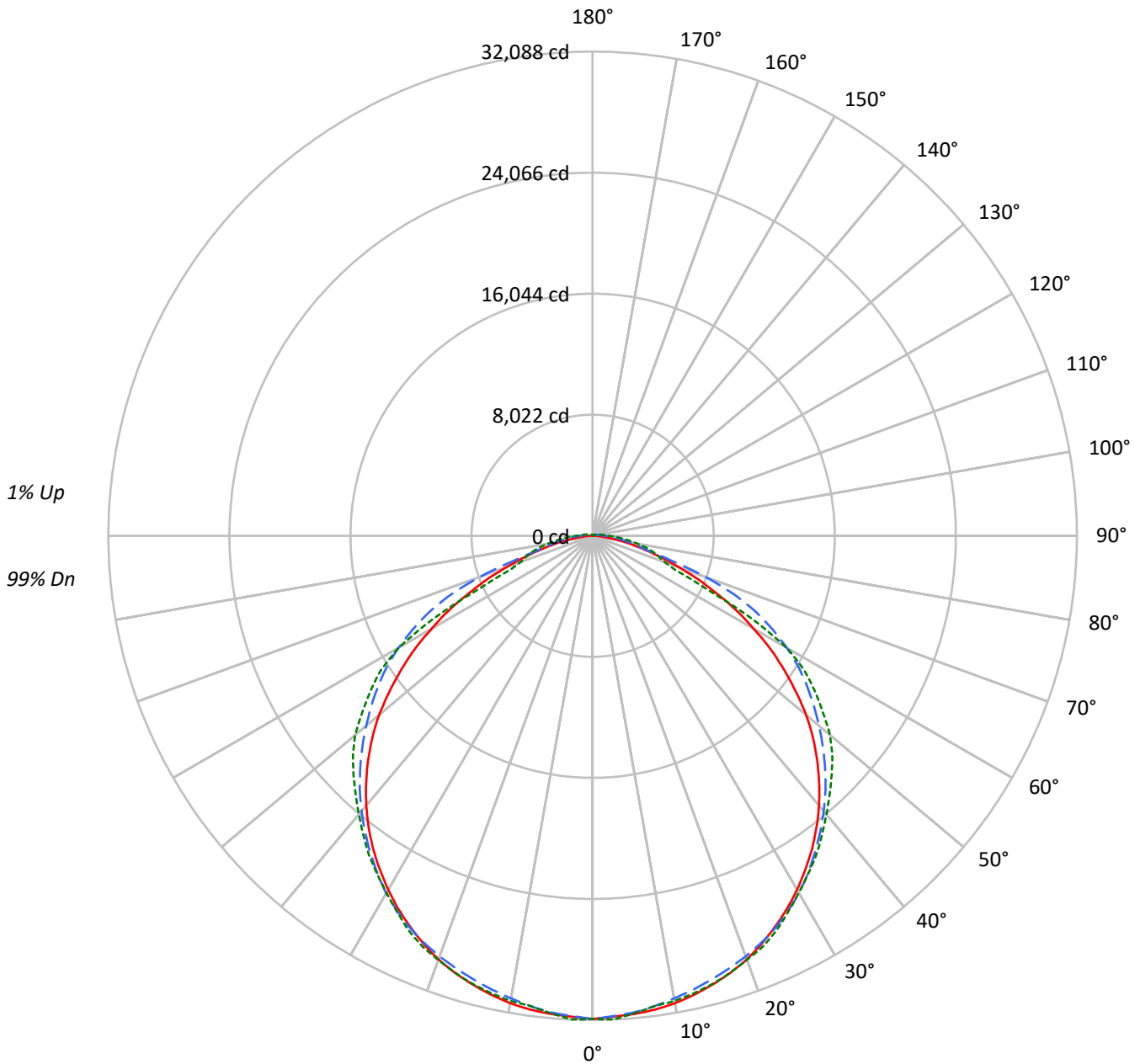
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 90511.0 lumens  
Efficiency: N/A  
Efficacy: 153.4 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 (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	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°	50643	50643	50643
5°	50312	49908	50013
10°	50128	49152	49457
15°	49810	48586	49126
20°	49492	48230	48691
25°	48895	47871	48260
30°	48245	47306	47347
35°	47468	46409	46844
40°	46459	45483	46158
45°	45060	44411	45855
50°	43164	43190	45491
55°	40151	41989	43793
60°	36206	40232	40488
65°	31059	36970	25659
70°	25017	28861	18603
75°	18756	17132	18881
80°	13055	14245	18026
85°	7430	13053	16897



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	3019.5	3.3
10°-20°	8658.4	9.6
20°-30°	13224.1	14.6
30°-40°	16045.3	17.7
40°-50°	16817.0	18.6
50°-60°	15238.8	16.8
60°-70°	10217.0	11.3
70°-80°	4587.9	5.1
80°-90°	1664.9	1.8
90°-100°	501.1	0.6
100°-110°	236.5	0.3
110°-120°	118.5	0.1
120°-130°	65.4	0.1
130°-140°	44.9	0.0
140°-150°	30.2	0.0
150°-160°	22.5	0.0
160°-170°	14.4	0.0
170°-180°	4.6	0.0
0°-30°	24901.9	27.5
0°-40°	40947.3	45.2
0°-60°	73003.1	80.7
0°-90°	89472.9	98.9
90°-120°	856.1	0.9
90°-150°	996.7	1.1
90°-180°	1038.0	1.1
0°-180°	90511.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	32023	32023	32023	32023	32023	
5°	31814	31926	31703	31801	31759	###
15°	30782	30662	30444	30712	30750	8691
25°	28596	28472	28671	28934	28851	13181
35°	25346	25406	25666	25939	25837	15842
45°	21035	21378	21776	22332	22401	16204
55°	15479	16224	17331	18026	17984	13817
65°	9085	10506	11928	10066	8219	9052
75°	3575	5186	3815	3903	4158	3906
85°	616	1181	1514	1829	1917	751
90°	5	394	782	982	1028	37
95°	5	245	537	653	671	6
105°	18	106	264	320	333	21
115°	37	56	134	171	181	34
125°	32	37	83	97	102	32
135°	42	46	51	74	79	33
145°	42	46	46	51	56	28
155°	46	51	51	51	46	21
165°	51	51	51	51	51	14
175°	51	51	46	42	42	5
180°	46	46	46	46	46	



TEST NUMBER: P829676

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	32022.9	32022.9	32022.9	32022.9	32022.9
2.5°	31893.2	32027.5	31860.8	32041.4	32087.7
5°	31814.5	31925.6	31703.4	31800.6	31758.9
7.5°	31671.0	31708.0	31444.1	31522.8	31439.5
10°	31458.0	31439.5	31129.2	31282.0	31300.5
12.5°	31143.1	31087.6	30809.7	31041.3	31045.9
15°	30782.0	30661.6	30444.0	30712.5	30749.5
17.5°	30365.2	30207.8	30064.3	30411.5	30356.0
20°	29879.1	29693.8	29666.1	30045.7	29906.8
22.5°	29277.1	29133.6	29198.4	29559.6	29471.6
25°	28596.5	28471.5	28670.6	28934.5	28851.1
27.5°	27878.8	27804.7	28031.6	28235.3	28073.3
30°	27091.6	27050.0	27350.9	27517.6	27313.9
32.5°	26235.0	26248.9	26536.0	26762.9	26573.1
35°	25346.0	25406.2	25665.5	25938.7	25836.8
37.5°	24369.1	24503.3	24762.6	25072.9	24966.4
40°	23336.5	23531.0	23818.1	24193.1	24095.9
42.5°	22220.6	22466.0	22836.4	23253.2	23243.9
45°	21035.3	21377.9	21776.1	22331.7	22401.2
47.5°	19803.6	20187.9	20692.6	21433.5	21540.0
50°	18465.5	18947.0	19576.7	20465.7	20530.6
52.5°	16974.5	17632.0	18465.5	19317.4	19238.7
55°	15479.0	16224.4	17331.1	18025.6	17983.9
57.5°	13988.0	14826.1	16168.9	16664.3	16659.7
60°	12321.1	13381.4	14849.2	15224.3	14853.9
62.5°	10779.2	11918.3	13441.6	13168.5	11899.8
65°	9084.6	10506.1	11927.5	10066.2	8218.7
67.5°	7579.7	9061.4	10131.0	6894.5	5903.6
70°	6065.6	7700.1	7899.2	5116.4	5047.0
72.5°	4722.9	6463.8	5449.8	4380.2	4602.5
75°	3574.6	5185.9	3815.3	3903.3	4158.0
77.5°	2606.8	3982.0	2968.0	3421.8	3630.1
80°	1791.9	2819.8	2421.6	2875.4	3018.9
82.5°	1125.2	1861.4	1940.1	2315.1	2463.3
85°	615.8	1180.7	1514.1	1829.0	1916.9
87.5°	254.7	713.1	1157.6	1412.2	1486.3
90°	4.6	393.6	782.5	981.6	1027.9
92.5°	4.6	301.0	639.0	791.8	824.2
95°	4.6	245.4	537.1	652.9	671.4
97.5°	9.3	194.5	449.1	541.7	560.3
100°	13.9	162.1	375.1	453.8	467.7
102.5°	18.5	129.6	314.9	379.7	393.6
105°	18.5	106.5	263.9	319.5	333.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	32.4	64.8	157.4	199.1	208.4
115°	37.0	55.6	134.3	171.3	180.6
117.5°	37.0	46.3	115.8	143.5	152.8
120°	37.0	41.7	101.9	125.0	129.6
122.5°	37.0	37.0	88.0	111.1	115.8
125°	32.4	37.0	83.3	97.2	101.9
127.5°	37.0	37.0	74.1	88.0	92.6
130°	37.0	41.7	64.8	83.3	83.3
132.5°	41.7	46.3	60.2	78.7	78.7
135°	41.7	46.3	50.9	74.1	78.7
137.5°	46.3	46.3	46.3	69.5	74.1
140°	46.3	46.3	41.7	60.2	64.8
142.5°	41.7	46.3	41.7	55.6	60.2
145°	41.7	46.3	46.3	50.9	55.6
147.5°	46.3	46.3	46.3	46.3	50.9
150°	46.3	46.3	46.3	46.3	46.3
152.5°	46.3	46.3	46.3	46.3	46.3
155°	46.3	50.9	50.9	50.9	46.3
157.5°	46.3	50.9	50.9	50.9	50.9
160°	46.3	50.9	50.9	50.9	50.9
162.5°	50.9	50.9	50.9	50.9	50.9
165°	50.9	50.9	50.9	50.9	50.9
167.5°	50.9	55.6	50.9	50.9	50.9
170°	50.9	50.9	50.9	46.3	46.3
172.5°	50.9	50.9	50.9	46.3	46.3
175°	50.9	50.9	46.3	41.7	41.7
177.5°	55.6	50.9	46.3	41.7	37.0
180°	46.3	46.3	46.3	46.3	46.3



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	23.2	88.0	226.9	273.2	282.4
110°	27.8	74.1	189.8	231.5	240.8



(END OF REPORT)