

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: P829674

Luminaire Tested: **OHBL-100SE-MCL-UNV-L750-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P829674  
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-L750-CD  
Description: 100000 LUMEN OHBL SE LED LUMINAIRE WITH 70CRI, 5000K LEDS AND MEDIUM CLEAR LENS  
Light Source: -  
Ballast/Driver: -

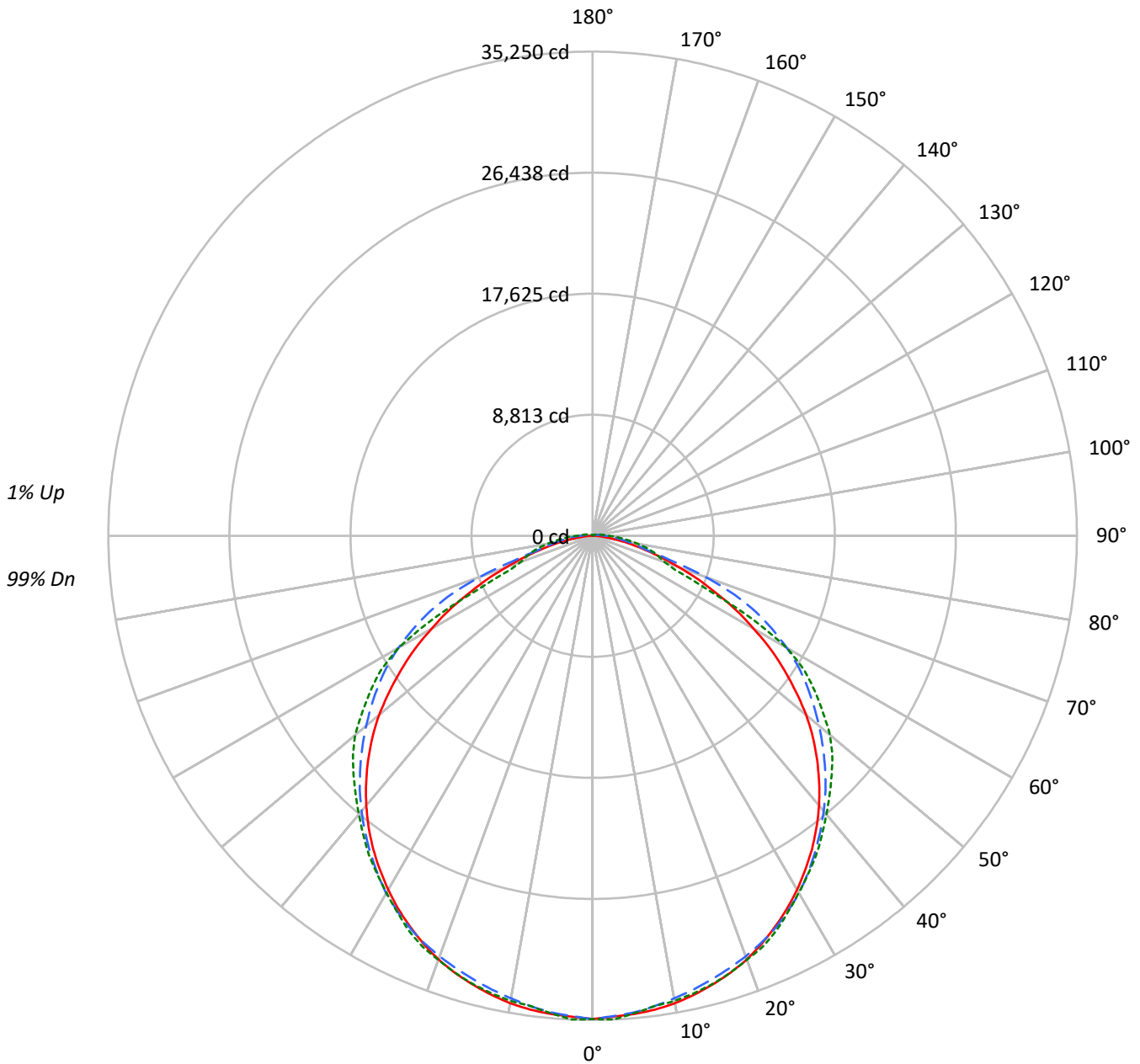
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 99431.1 lumens  
Efficiency: N/A  
Efficacy: 168.5 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 (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°	55634	55634	55634
5°	55270	54826	54941
10°	55068	53996	54331
15°	54719	53375	53968
20°	54369	52983	53490
25°	53713	52589	53016
30°	53000	51968	52013
35°	52146	50983	51460
40°	51038	49965	50707
45°	49500	48787	50374
50°	47417	47447	49975
55°	44108	46127	48109
60°	39775	44197	44478
65°	34120	40614	28188
70°	27482	31705	20437
75°	20604	18821	20741
80°	14342	15650	19803
85°	8162	14339	18562



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	3317.0	3.3
10°-20°	9511.7	9.6
20°-30°	14527.3	14.6
30°-40°	17626.6	17.7
40°-50°	18474.4	18.6
50°-60°	16740.6	16.8
60°-70°	11223.9	11.3
70°-80°	5040.0	5.1
80°-90°	1829.0	1.8
90°-100°	550.5	0.6
100°-110°	259.7	0.3
110°-120°	130.2	0.1
120°-130°	71.8	0.1
130°-140°	49.4	0.0
140°-150°	33.2	0.0
150°-160°	24.7	0.0
160°-170°	15.9	0.0
170°-180°	5.0	0.0
0°-30°	27356.1	27.5
0°-40°	44982.7	45.2
0°-60°	80197.7	80.7
0°-90°	98290.6	98.9
90°-120°	940.4	0.9
90°-150°	1094.9	1.1
90°-180°	1140.0	1.1
0°-180°	99431.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	35179	35179	35179	35179	35179	
5°	34950	35072	34828	34935	34889	###
15°	33816	33683	33444	33739	33780	9548
25°	31415	31277	31496	31786	31694	14480
35°	27844	27910	28195	28495	28383	17403
45°	23108	23485	23922	24533	24609	17801
55°	17004	17823	19039	19802	19756	15179
65°	9980	11541	13103	11058	9029	9944
75°	3927	5697	4191	4288	4568	4291
85°	676	1297	1663	2009	2106	825
90°	5	432	860	1078	1129	40
95°	5	270	590	717	738	7
105°	20	117	290	351	366	23
115°	41	61	148	188	198	38
125°	36	41	92	107	112	35
135°	46	51	56	81	86	36
145°	46	51	51	56	61	30
155°	51	56	56	56	51	24
165°	56	56	56	56	56	16
175°	56	56	51	46	46	5
180°	51	51	51	51	51	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	35178.8	35178.8	35178.8	35178.8	<i>35178.8</i>
2.5°	<i>35036.3</i>	<i>35183.9</i>	<i>35000.7</i>	<i>35199.1</i>	<i>35250.0</i>
5°	34949.9	35072.0	34827.8	34934.6	<i>34888.8</i>
7.5°	34792.2	34832.9	34542.9	34629.4	<i>34537.9</i>
10°	34558.2	34537.9	34197.1	34364.9	<i>34385.3</i>
12.5°	34212.3	34151.3	33846.1	34100.4	<i>34105.5</i>
15°	33815.6	33683.3	33444.2	33739.3	<i>33780.0</i>
17.5°	33357.8	33184.8	33027.1	33408.6	<i>33347.6</i>
20°	32823.7	32620.2	32589.7	33006.8	<i>32854.2</i>
22.5°	32162.4	32004.7	32076.0	32472.7	<i>32376.1</i>
25°	31414.7	31277.4	31496.1	31786.0	<i>31694.5</i>
27.5°	30626.3	30544.9	30794.1	31018.0	<i>30839.9</i>
30°	29761.6	29715.8	30046.4	30229.5	<i>30005.7</i>
32.5°	28820.5	28835.8	29151.2	29400.4	<i>29191.9</i>
35°	27843.9	27910.1	28194.9	28495.0	<i>28383.1</i>
37.5°	26770.7	26918.2	27203.0	27543.8	<i>27426.8</i>
40°	25636.4	25850.0	26165.4	26577.4	<i>26470.6</i>
42.5°	24410.5	24680.1	25087.0	25544.8	<i>25534.6</i>
45°	23108.3	23484.7	23922.2	24532.6	<i>24608.9</i>
47.5°	21755.3	22177.5	22731.9	23545.8	<i>23662.8</i>
50°	20285.3	20814.3	21506.1	22482.7	<i>22553.9</i>
52.5°	18647.4	19369.7	20285.3	21221.2	<i>21134.7</i>
55°	17004.4	17823.4	19039.1	19802.0	<i>19756.3</i>
57.5°	15366.6	16287.2	17762.3	18306.6	<i>18301.5</i>
60°	13535.4	14700.2	16312.7	16724.7	<i>16317.7</i>
62.5°	11841.6	13092.9	14766.3	14466.2	<i>13072.5</i>
65°	9979.9	11541.4	13103.0	11058.2	<i>9028.7</i>
67.5°	8326.7	9954.4	11129.4	7573.9	<i>6485.4</i>
70°	6663.4	8459.0	8677.7	5620.7	<i>5544.4</i>
72.5°	5188.3	7100.9	5986.9	4811.9	<i>5056.1</i>
75°	3926.8	5697.0	4191.3	4288.0	<i>4567.7</i>
77.5°	2863.7	4374.5	3260.5	3759.0	<i>3987.9</i>
80°	1968.5	3097.7	2660.3	3158.8	<i>3316.4</i>
82.5°	1236.0	2044.8	2131.3	2543.3	<i>2706.1</i>
85°	676.5	1297.1	1663.3	2009.2	<i>2105.8</i>
87.5°	279.8	783.3	1271.6	1551.4	<i>1632.8</i>
90°	5.1	432.4	859.6	1078.4	<i>1129.2</i>
92.5°	5.1	330.6	701.9	869.8	<i>905.4</i>
95°	5.1	269.6	590.0	717.2	<i>737.6</i>
97.5°	10.2	213.6	493.4	595.1	<i>615.5</i>
100°	15.3	178.0	412.0	498.5	<i>513.7</i>
102.5°	20.3	142.4	345.9	417.1	<i>432.4</i>
105°	20.3	117.0	289.9	351.0	<i>366.2</i>



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CATALOG NUMBER: OHBL-100SE-MCL-UNV-L750-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	35.6	71.2	172.9	218.7	228.9
115°	40.7	61.0	147.5	188.2	198.4
117.5°	40.7	50.9	127.2	157.7	167.9
120°	40.7	45.8	111.9	137.3	142.4
122.5°	40.7	40.7	96.6	122.1	127.2
125°	35.6	40.7	91.6	106.8	111.9
127.5°	40.7	40.7	81.4	96.6	101.7
130°	40.7	45.8	71.2	91.6	91.6
132.5°	45.8	50.9	66.1	86.5	86.5
135°	45.8	50.9	56.0	81.4	86.5
137.5°	50.9	50.9	50.9	76.3	81.4
140°	50.9	50.9	45.8	66.1	71.2
142.5°	45.8	50.9	45.8	61.0	66.1
145°	45.8	50.9	50.9	56.0	61.0
147.5°	50.9	50.9	50.9	50.9	56.0
150°	50.9	50.9	50.9	50.9	50.9
152.5°	50.9	50.9	50.9	50.9	50.9
155°	50.9	56.0	56.0	56.0	50.9
157.5°	50.9	56.0	56.0	56.0	56.0
160°	50.9	56.0	56.0	56.0	56.0
162.5°	56.0	56.0	56.0	56.0	56.0
165°	56.0	56.0	56.0	56.0	56.0
167.5°	56.0	61.0	56.0	56.0	56.0
170°	56.0	56.0	56.0	50.9	50.9
172.5°	56.0	56.0	56.0	50.9	50.9
175°	56.0	56.0	50.9	45.8	45.8
177.5°	61.0	56.0	50.9	45.8	40.7
180°	50.9	50.9	50.9	50.9	50.9



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	25.4	96.6	249.2	300.1	310.3
110°	30.5	81.4	208.5	254.3	264.5



(END OF REPORT)