

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: P829689

Luminaire Tested: **OHBL-100SE-MFL-UNV-L840-CD**

Issue Date: 5/3/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P829689  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-100SE-MFL-UNV-L840-CD  
Description: 100000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND MEDIUM FROSTED LENS  
Light Source: -  
Ballast/Driver: -

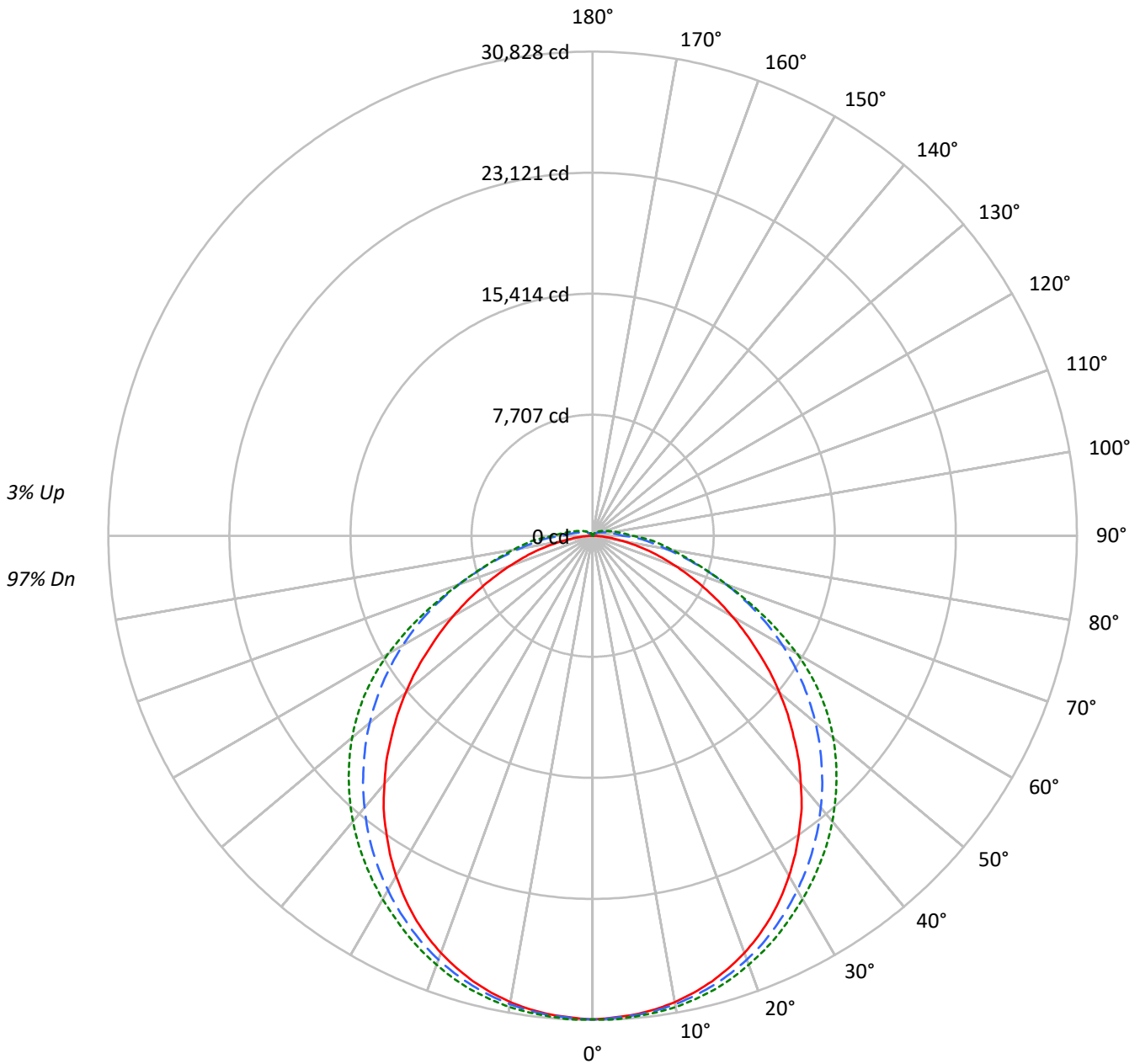
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 92174.0 lumens  
Efficiency: N/A  
Efficacy: 156.2 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38  
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	107	102	98	94	104	100	96	92	95	91	88	90	88	85	86	84	82	82	82	80																	
2	98	89	82	76	95	87	80	75	83	77	73	79	74	71	75	72	68	68	68	66																	
3	89	78	70	63	86	76	69	62	73	66	61	70	64	59	67	62	58	58	58	56																	
4	81	69	60	53	79	68	59	53	65	57	52	62	56	51	59	54	50	50	50	47																	
5	75	62	53	46	72	60	52	46	58	50	45	56	49	44	53	48	43	43	43	41																	
6	69	56	47	40	67	54	46	40	52	45	39	50	44	39	48	43	38	38	38	36																	
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	44	38	34	34	34	32																	
8	60	46	37	31	58	45	37	31	43	36	31	42	35	31	41	35	30	30	30	28																	
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	37	32	27	27	27	25																	
10	52	39	31	26	51	38	31	26	37	30	25	36	29	25	35	29	25	25	25	23																	

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

	0°	45°	90°
0°	48707	48707	48707
5°	48395	48245	48393
10°	48056	47820	48139
15°	47519	47311	47807
20°	46806	46689	47320
25°	45855	45912	46827
30°	44537	45069	46332
35°	42942	44174	45904
40°	41026	43137	45483
45°	38767	42012	44945
50°	36295	40875	44292
55°	33257	39482	43189
60°	30146	37842	40988
65°	26749	35746	37370
70°	23067	33074	33451
75°	19340	29988	30804
80°	14663	27757	30560
85°	9276	28851	34151



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2918.3	3.2
10°-20°	8372.2	9.1
20°-30°	12661.5	13.7
30°-40°	15200.2	16.5
40°-50°	15699.4	17.0
50°-60°	14124.5	15.3
60°-70°	10639.8	11.5
70°-80°	6424.6	7.0
80°-90°	3142.2	3.4
90°-100°	1322.6	1.4
100°-110°	755.0	0.8
110°-120°	443.2	0.5
120°-130°	250.6	0.3
130°-140°	132.0	0.1
140°-150°	64.2	0.1
150°-160°	23.9	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	23951.9	26.0
0°-40°	39152.1	42.5
0°-60°	68976.0	74.8
0°-90°	89182.6	96.8
90°-120°	2520.8	2.7
90°-150°	2967.6	3.2
90°-180°	2991.0	3.2
0°-180°	92174.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	30798	30798	30798	30798	30798	
5°	30602	30685	30648	30768	30730	###
15°	29366	29509	29645	29894	29924	8279
25°	26818	27112	27497	27926	27994	12336
35°	22929	23464	24429	25168	25318	14334
45°	18098	19010	20600	21723	21957	13972
55°	12821	14148	16296	17525	17736	11495
65°	7824	9422	11532	12105	11970	7773
75°	3686	5291	6678	6852	6784	3932
85°	769	2028	3347	3806	3874	888
90°	0	791	1914	2412	2510	49
95°	38	535	1432	1824	1892	32
105°	53	309	829	1085	1131	53
115°	60	173	513	686	716	62
125°	60	83	309	445	467	54
135°	53	68	158	271	302	42
145°	75	68	75	136	158	45
155°	75	83	75	68	75	23
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°	30798.3	30798.3	30798.3	30798.3	30798.3
2.5°	30707.8	30783.2	30738.0	30836.0	30828.4
5°	30602.3	30685.2	30647.5	30768.1	30730.4
7.5°	30421.4	30511.8	30504.3	30640.0	30624.9
10°	30157.6	30255.6	30285.7	30466.6	30466.6
12.5°	29795.8	29923.9	29999.3	30217.9	30225.4
15°	29366.1	29509.4	29645.0	29893.8	29923.9
17.5°	28846.1	29027.0	29215.4	29501.8	29539.5
20°	28258.1	28461.6	28717.9	29019.4	29064.6
22.5°	27579.7	27820.9	28152.6	28506.9	28559.6
25°	26818.5	27112.4	27496.8	27926.5	27994.3
27.5°	25951.6	26290.8	26810.9	27293.3	27353.6
30°	25009.5	25408.9	26057.2	26630.0	26728.0
32.5°	24014.5	24474.3	25273.3	25914.0	26049.6
35°	22929.1	23464.3	24429.1	25167.7	25318.5
37.5°	21858.8	22446.7	23539.6	24383.8	24564.7
40°	20607.6	21338.7	22589.9	23524.6	23743.2
42.5°	19431.7	20223.1	21640.2	22657.8	22868.8
45°	18097.6	19009.6	20600.0	21723.1	21956.8
47.5°	16846.3	17833.7	19597.5	20758.3	20999.5
50°	15527.3	16612.7	18527.2	19740.7	19989.5
52.5°	14208.2	15376.5	17419.2	18678.0	18911.6
55°	12821.3	14147.9	16296.1	17524.7	17735.8
57.5°	11532.4	12934.4	15142.9	16311.2	16439.3
60°	10258.6	11713.3	13967.0	14992.1	15037.3
62.5°	9014.9	10545.0	12761.0	13575.1	13514.8
65°	7823.9	9421.9	11532.4	12105.2	11969.6
67.5°	6678.2	8328.9	10273.6	10643.0	10462.1
70°	5592.8	7266.2	9052.5	9241.0	9075.2
72.5°	4635.6	6256.1	7816.4	7974.7	7854.1
75°	3685.8	5291.3	6678.2	6851.6	6783.8
77.5°	2796.4	4356.7	5630.5	5856.6	5871.7
80°	2012.5	3504.9	4718.5	5072.7	5118.0
82.5°	1326.6	2721.0	3957.2	4409.4	4477.3
85°	768.8	2027.6	3346.7	3806.4	3874.3
87.5°	331.7	1462.3	2690.9	3105.5	3188.4
90°	0.0	791.4	1914.5	2412.0	2510.0
92.5°	22.6	655.8	1643.2	2095.4	2178.3
95°	37.7	535.2	1432.1	1824.1	1891.9
97.5°	45.2	452.3	1243.7	1590.4	1658.3
100°	45.2	392.0	1077.9	1394.4	1454.7
102.5°	45.2	346.7	942.2	1221.1	1273.8
105°	52.8	309.0	829.1	1085.4	1130.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	60.3	203.5	572.9	768.8	799.0
115°	60.3	173.4	512.6	685.9	716.1
117.5°	67.8	150.8	452.3	618.1	640.7
120°	67.8	128.1	399.5	550.2	580.4
122.5°	67.8	105.5	354.3	497.5	520.1
125°	60.3	82.9	309.0	444.7	467.3
127.5°	52.8	67.8	263.8	399.5	422.1
130°	52.8	60.3	226.1	354.3	376.9
132.5°	52.8	67.8	188.4	309.0	339.2
135°	52.8	67.8	158.3	271.4	301.5
137.5°	52.8	67.8	128.1	233.7	263.8
140°	60.3	67.8	105.5	196.0	226.1
142.5°	67.8	67.8	82.9	165.8	188.4
145°	75.4	67.8	75.4	135.7	158.3
147.5°	75.4	75.4	75.4	105.5	128.1
150°	75.4	82.9	75.4	82.9	105.5
152.5°	75.4	82.9	75.4	67.8	82.9
155°	75.4	82.9	75.4	67.8	75.4
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°	52.8	271.4	731.1	964.8	1002.5
110°	52.8	241.2	648.2	859.3	897.0



(END OF REPORT)