

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: P829717

Luminaire Tested: **OHBL-100SE-NL-UNV-L940-CD**

Issue Date: 5/3/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P829717  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P472951)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-100SE-NL-UNV-L940-CD  
Description: 100000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 4000K LEDS AND NO LENS  
Light Source: -  
Ballast/Driver: -

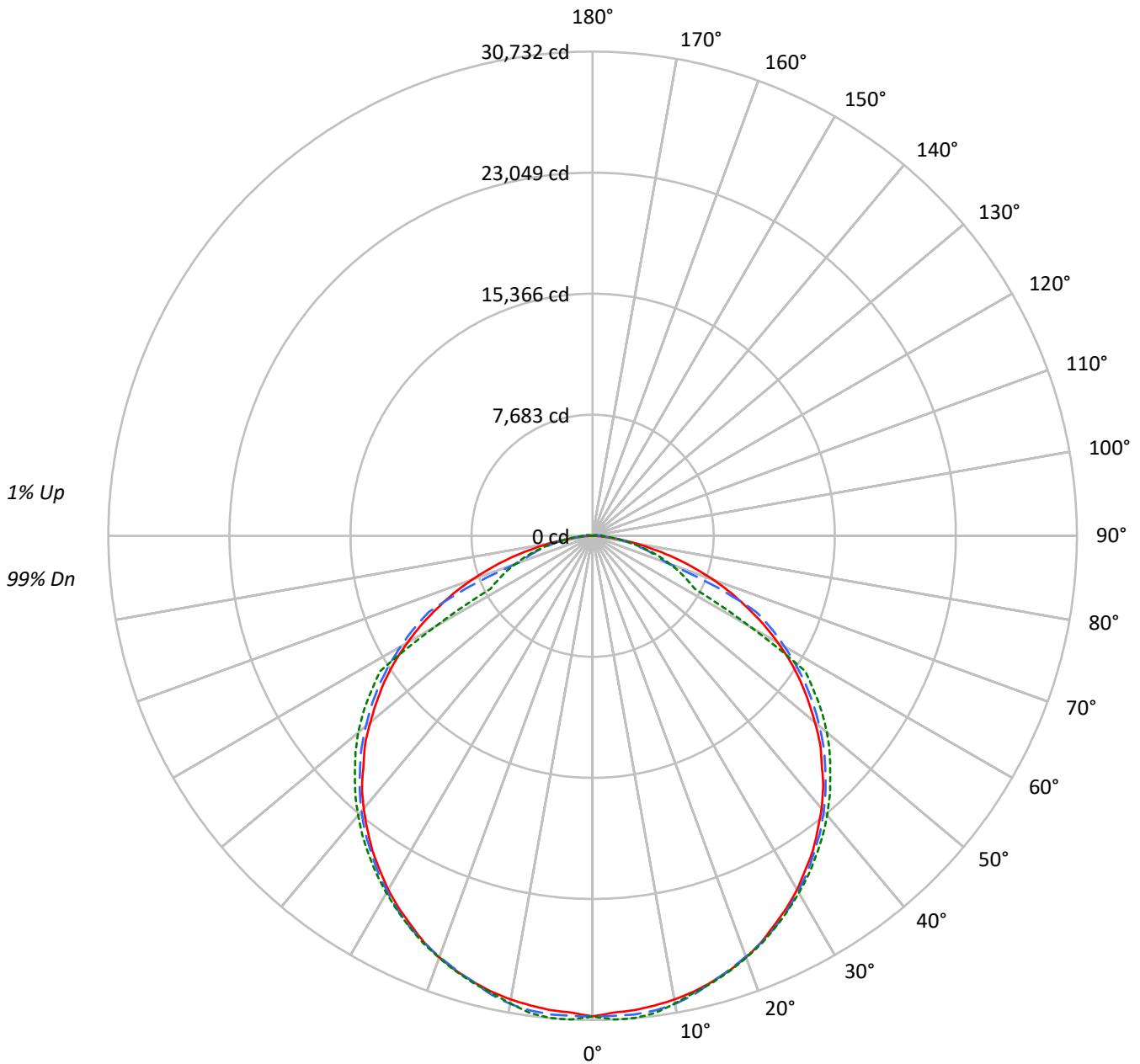
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 85654.0 lumens  
Efficiency: N/A  
Efficacy: 145.2 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39  
Luminous Opening: Rectangular (W 1.8' x L: 3.78' x H: 0')  
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	111	111	111	106	106	106	102	102	102					99															
1	109	105	100	97	106	102	99	95	98	95	92	94	91	89	90	88	86					84															
2	99	92	85	79	97	90	84	78	86	81	76	83	78	75	80	76	73					71															
3	91	81	73	66	88	79	72	66	76	70	64	73	68	63	70	66	62					60															
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53					51															
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46					44															
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	45	41					39															
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36					34															
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32					30															
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29					27															
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26					25															

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

	0°	45°	90°
0°	48247	48247	48247
5°	47981	48414	48780
10°	47994	48450	48390
15°	47986	47977	48082
20°	47920	47848	47965
25°	47593	47835	47873
30°	47372	47617	47803
35°	47065	47324	47768
40°	46659	47101	47797
45°	45986	46681	47699
50°	45293	46216	47743
55°	44426	45578	47217
60°	42938	44462	36759
65°	40625	42987	24740
70°	37574	22820	24010
75°	32775	21686	22929
80°	25205	19893	21013
85°	12722	20105	20588



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2898.3	3.4
10°-20°	8298.8	9.7
20°-30°	12627.3	14.7
30°-40°	15353.0	17.9
40°-50°	16142.9	18.8
50°-60°	14740.4	17.2
60°-70°	9449.3	11.0
70°-80°	4463.7	5.2
80°-90°	1237.8	1.4
90°-100°	327.8	0.4
100°-110°	89.8	0.1
110°-120°	24.9	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	23824.4	27.8
0°-40°	39177.4	45.7
0°-60°	70060.7	81.8
0°-90°	85211.6	99.5
90°-120°	442.4	0.5
90°-150°	442.4	0.5
90°-180°	442.0	0.5
0°-180°	85654.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	30508	30508	30508	30508	30508	
5°	30224	30342	30497	30663	30727	###
15°	29308	29528	29303	29346	29367	8274
25°	27274	27317	27413	27456	27435	12585
35°	24378	24234	24512	24812	24742	15235
45°	20561	20524	20872	21364	21327	15893
55°	16113	15990	16530	17082	17125	14370
65°	10856	10856	11488	6590	6611	10763
75°	5364	5466	3549	3737	3752	5654
85°	701	889	1108	1199	1135	1036
90°	0	300	492	583	573	31
95°	16	155	354	477	477	9
105°	27	59	86	86	80	27
115°	27	37	53	37	5	19
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	30507.8	30507.8	30507.8	30507.8	30507.8
2.5°	30293.5	30395.5	30507.8	30652.3	30732.2
5°	30223.8	30341.7	30497.0	30663.0	30727.1
7.5°	30074.2	30239.7	30389.9	30507.8	30545.2
10°	29886.6	30085.0	30170.5	30159.8	30133.1
12.5°	29635.0	29844.1	29817.4	29693.9	29715.4
15°	29308.5	29527.8	29303.4	29345.9	29367.4
17.5°	28923.1	29137.3	28874.9	28960.5	28966.2
20°	28473.7	28634.1	28430.6	28500.3	28500.3
22.5°	27933.0	28045.2	27959.6	28007.8	28018.6
25°	27274.4	27316.9	27413.3	27456.4	27434.8
27.5°	26643.1	26589.2	26776.8	26878.3	26824.4
30°	25941.4	25855.8	26075.2	26241.2	26177.2
32.5°	25138.3	25085.1	25336.7	25534.5	25497.1
35°	24378.3	24233.8	24512.1	24811.9	24742.2
37.5°	23478.9	23393.3	23709.0	24025.2	23987.8
40°	22601.0	22456.5	22815.2	23189.8	23152.4
42.5°	21659.0	21487.3	21878.4	22328.4	22285.3
45°	20561.2	20523.8	20871.8	21364.3	21326.9
47.5°	19587.6	19400.0	19886.8	20363.4	20406.5
50°	18409.3	18340.1	18784.5	19362.6	19405.1
52.5°	17258.8	17210.6	17675.9	18259.6	18334.5
55°	16112.8	15989.8	16530.5	17081.9	17125.0
57.5°	14887.5	14758.8	15310.3	15909.9	16000.6
60°	13575.4	13452.5	14057.2	14614.3	11621.8
62.5°	12264.0	12178.4	12810.3	9073.7	7312.8
65°	10856.2	10856.2	11487.5	6589.6	6611.2
67.5°	9539.6	9454.0	8565.3	5920.3	5920.3
70°	8126.1	8158.4	4935.3	5187.5	5192.6
72.5°	6707.5	6825.4	4261.4	4464.3	4475.1
75°	5363.8	5465.8	3549.0	3736.6	3752.5
77.5°	3940.1	3029.9	2853.0	2998.1	3003.2
80°	2767.5	1911.1	2184.3	2323.1	2307.3
82.5°	1616.4	1338.1	1600.5	1702.5	1696.9
85°	701.1	888.7	1108.0	1199.2	1134.6
87.5°	224.4	551.5	690.3	744.1	738.5
90°	0.0	299.8	492.5	583.2	573.0
92.5°	0.0	235.2	428.5	535.6	540.7
95°	15.9	155.3	353.7	476.6	476.6
97.5°	10.8	112.2	251.6	374.6	385.4
100°	10.8	90.7	166.1	267.5	273.2
102.5°	26.6	74.8	101.4	171.2	176.8
105°	26.6	58.9	85.6	85.6	80.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	32.3	43.1	58.9	43.1	5.1
115°	26.6	37.4	53.3	37.4	5.1
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
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°	26.6	53.3	74.8	48.2	15.9
110°	32.3	48.2	64.0	43.1	5.1



(END OF REPORT)