

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: P829696

Luminaire Tested: **OHBL-100SE-N-UNV-L735-CD**

Issue Date: 5/3/2024

**Test Information**

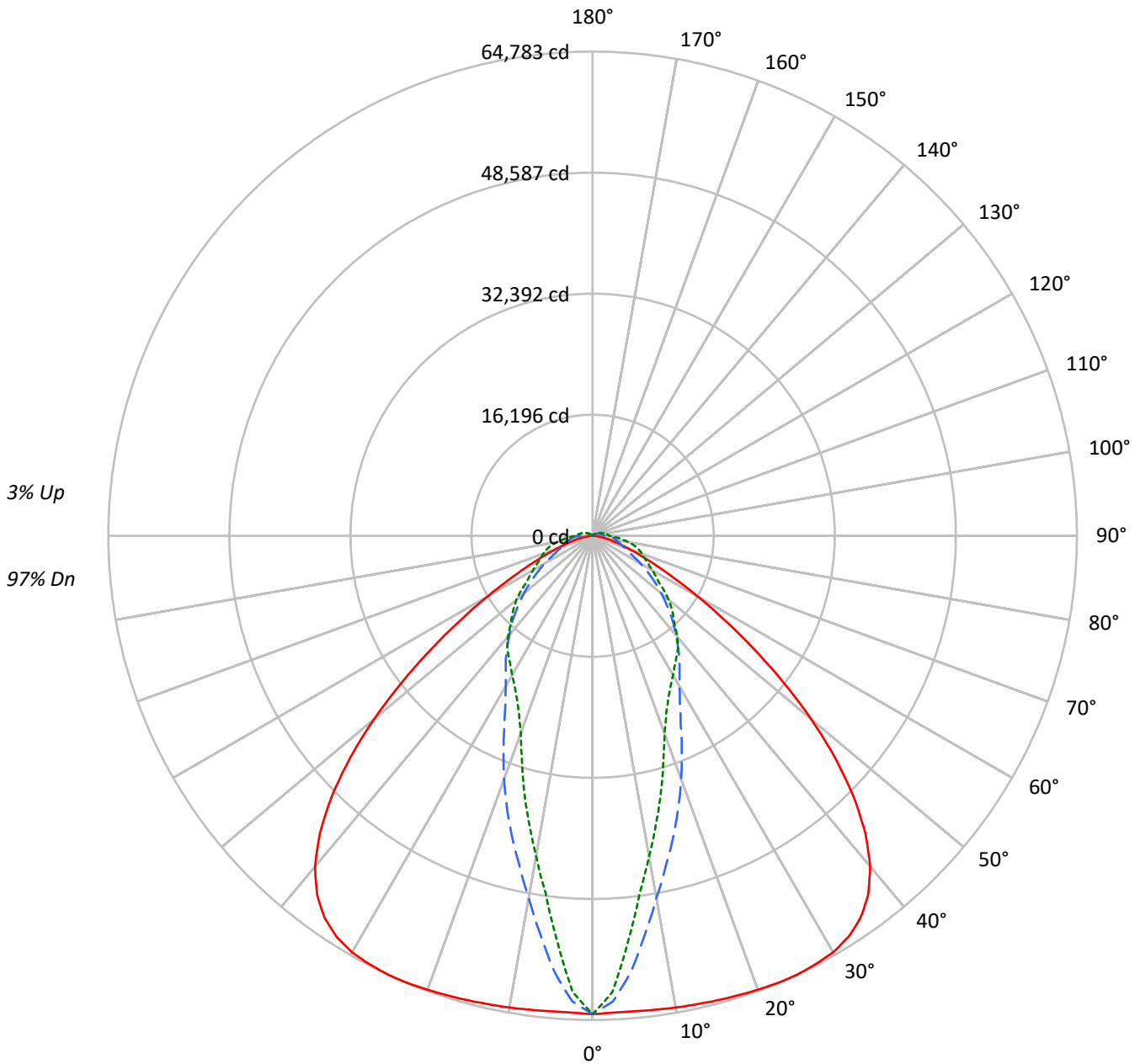
Test Method: LM-79-08  
Report Number: P829696  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-100SE-N-UNV-L735-CD  
Description: 100000 LUMEN OHBL SE LED LUMINAIRE WITH 70CRI, 3500K LEDS AND NARROW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 94453.0 lumens  
Efficiency: N/A  
Efficacy: 160.1 lumens/watt  
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78  
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					20					
RC	80					70					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	99	97					
1	109	104	100	97	106	102	98	95	97	94	91	92	90	88	88	86	85	85	85	85	82					
2	100	93	86	81	97	90	85	80	86	82	78	83	79	75	79	76	73	73	73	73	71					
3	92	83	75	69	90	81	74	69	78	72	67	74	70	65	72	67	64	64	64	64	62					
4	85	74	66	60	83	73	66	60	70	64	59	67	62	57	65	60	56	56	56	56	54					
5	79	67	59	53	77	66	59	53	64	57	52	62	56	51	59	54	50	50	50	50	48					
6	74	62	53	47	72	60	53	47	58	52	46	56	50	46	55	49	45	45	45	45	43					
7	69	56	48	43	67	55	48	42	54	47	42	52	46	41	50	45	41	41	41	41	39					
8	65	52	44	39	63	51	44	39	50	43	38	48	42	38	47	41	37	37	37	37	35					
9	61	48	41	35	59	47	40	35	46	40	35	45	39	35	44	38	34	34	34	34	32					
10	57	45	37	33	56	44	37	32	43	37	32	42	36	32	41	35	32	32	32	32	30					

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

	0°	45°	90°
0°	101210	101210	101210
5°	101003	92211	85749
10°	102143	77708	68802
15°	104138	66489	56507
20°	107063	56246	45735
25°	110766	46579	40101
30°	114595	40148	37281
35°	116980	36610	35548
40°	114978	33090	33755
45°	105775	29924	31282
50°	89241	26459	29395
55°	67810	23198	26194
60°	47520	19918	25119
65°	31965	17180	24645
70°	21830	16156	25931
75°	15149	16711	27824
80°	10429	18596	28841
85°	6099	23471	30656



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	5387.2	5.7
10°-20°	12673.1	13.4
20°-30°	15885.6	16.8
30°-40°	16856.4	17.8
40°-50°	15240.8	16.1
50°-60°	11050.6	11.7
60°-70°	6934.8	7.3
70°-80°	4589.2	4.9
80°-90°	2643.9	2.8
90°-100°	1280.9	1.4
100°-110°	884.1	0.9
110°-120°	545.5	0.6
120°-130°	264.2	0.3
130°-140°	121.5	0.1
140°-150°	66.4	0.1
150°-160°	28.9	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	33945.8	35.9
0°-40°	50802.2	53.8
0°-60°	77093.6	81.6
0°-90°	91261.5	96.6
90°-120°	2710.5	2.9
90°-150°	3162.6	3.3
90°-180°	3192.0	3.4
0°-180°	94453.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	63997	63997	63997	63997	63997	
5°	63869	62231	58576	55860	54452	###
15°	64356	52455	41662	37051	35370	18251
25°	64783	40559	27896	24760	23974	29929
35°	62462	26964	20246	19613	19607	38829
45°	49379	17079	14673	15026	15282	37617
55°	26142	10586	9575	10385	10756	23620
65°	9350	6140	5543	7102	7894	9729
75°	2887	3307	3722	5780	6127	3218
85°	506	1370	2723	3788	3478	606
90°	0	572	1578	2223	2241	33
95°	24	402	1389	1888	1973	22
105°	49	268	1011	1340	1376	49
115°	67	189	682	853	871	66
125°	73	98	347	438	432	64
135°	61	73	152	238	238	48
145°	73	79	91	140	134	44
155°	73	91	98	104	91	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°	63996.9	63996.9	63996.9	63996.9	63996.9
2.5°	63862.9	63497.5	62358.5	61664.1	61079.4
5°	63869.0	62230.6	58576.1	55859.5	54452.5
7.5°	63960.4	60318.0	53733.8	49768.6	48221.5
10°	64100.5	57948.7	49214.4	44987.3	43543.7
12.5°	64204.0	55280.9	45237.0	40894.2	39310.6
15°	64356.3	52454.7	41661.7	37050.9	35369.8
17.5°	64496.4	49793.0	38128.9	33311.1	31441.2
20°	64636.5	46924.2	34596.2	29632.2	28091.2
22.5°	64770.5	43897.0	31148.8	26775.5	25721.8
25°	64782.7	40559.2	27896.3	24759.5	23973.7
27.5°	64624.3	37099.6	25258.9	23072.3	22585.0
30°	64350.2	33743.5	23212.4	21854.1	21506.9
32.5°	63668.0	30320.4	21628.7	20678.6	20477.6
35°	62462.0	26964.4	20246.1	19612.7	19606.6
37.5°	60561.7	23985.9	18747.7	18638.1	18772.1
40°	57753.8	21379.0	17328.6	17620.9	17620.9
42.5°	54007.9	19113.2	16043.4	16341.8	16262.7
45°	49378.8	17078.8	14672.9	15026.2	15282.0
47.5°	44012.7	15288.1	13272.0	13954.2	14307.5
50°	38177.7	13582.7	11993.0	12864.0	13266.0
52.5°	32062.4	12005.1	10744.3	11743.2	12066.0
55°	26142.1	10586.0	9574.9	10385.0	10756.5
57.5°	20782.1	9233.8	8429.8	9197.2	9964.7
60°	16171.3	8070.4	7351.7	8448.1	9215.5
62.5°	12352.3	7035.0	6340.6	7747.6	8515.1
65°	9349.5	6139.6	5542.7	7102.0	7893.8
67.5°	7047.2	5366.1	4921.4	6633.0	7406.5
70°	5293.0	4616.9	4422.0	6340.6	7035.0
72.5°	3910.3	3928.6	4026.1	6084.8	6614.7
75°	2887.1	3307.4	3721.5	5780.3	6127.4
77.5°	2064.8	2740.9	3447.4	5414.8	5536.6
80°	1431.4	2235.4	3161.2	4933.6	4830.1
82.5°	895.4	1790.7	2905.4	4403.7	4117.4
85°	505.5	1370.4	2722.6	3788.5	3477.9
87.5°	225.4	1023.3	2381.5	2954.1	2759.2
90°	0.0	572.5	1577.5	2223.2	2241.4
92.5°	12.2	475.1	1455.7	2034.4	2095.3
95°	24.4	402.0	1388.7	1888.2	1973.4
97.5°	30.5	353.3	1303.4	1754.2	1827.3
100°	36.5	316.7	1199.9	1614.1	1675.0
102.5°	42.6	292.4	1102.5	1467.9	1516.6
105°	48.7	268.0	1011.1	1340.0	1376.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	60.9	207.1	761.4	962.4	992.8
115°	67.0	188.8	682.2	852.7	871.0
117.5°	73.1	164.5	596.9	749.2	755.3
120°	73.1	146.2	511.6	639.5	639.5
122.5°	73.1	121.8	426.4	529.9	523.8
125°	73.1	97.5	347.2	438.5	432.5
127.5°	67.0	79.2	280.2	365.5	359.4
130°	67.0	79.2	225.4	310.6	310.6
132.5°	60.9	73.1	182.7	268.0	268.0
135°	60.9	73.1	152.3	237.5	237.5
137.5°	60.9	79.2	127.9	207.1	207.1
140°	60.9	73.1	109.6	182.7	182.7
142.5°	67.0	73.1	97.5	158.4	158.4
145°	73.1	79.2	91.4	140.1	134.0
147.5°	73.1	85.3	91.4	121.8	115.7
150°	73.1	91.4	91.4	109.6	103.5
152.5°	73.1	91.4	91.4	103.5	97.5
155°	73.1	91.4	97.5	103.5	91.4
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°	48.7	249.7	925.8	1199.9	1242.5
110°	54.8	225.4	846.6	1072.0	1114.6



(END OF REPORT)