

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: P829718

Luminaire Tested: **OHBL-100SE-NL-UNV-L950-CD**

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P829718
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-L950-CD
Description: 100000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 5000K LEDS AND NO LENS
Light Source: -
Ballast/Driver: -

Summary

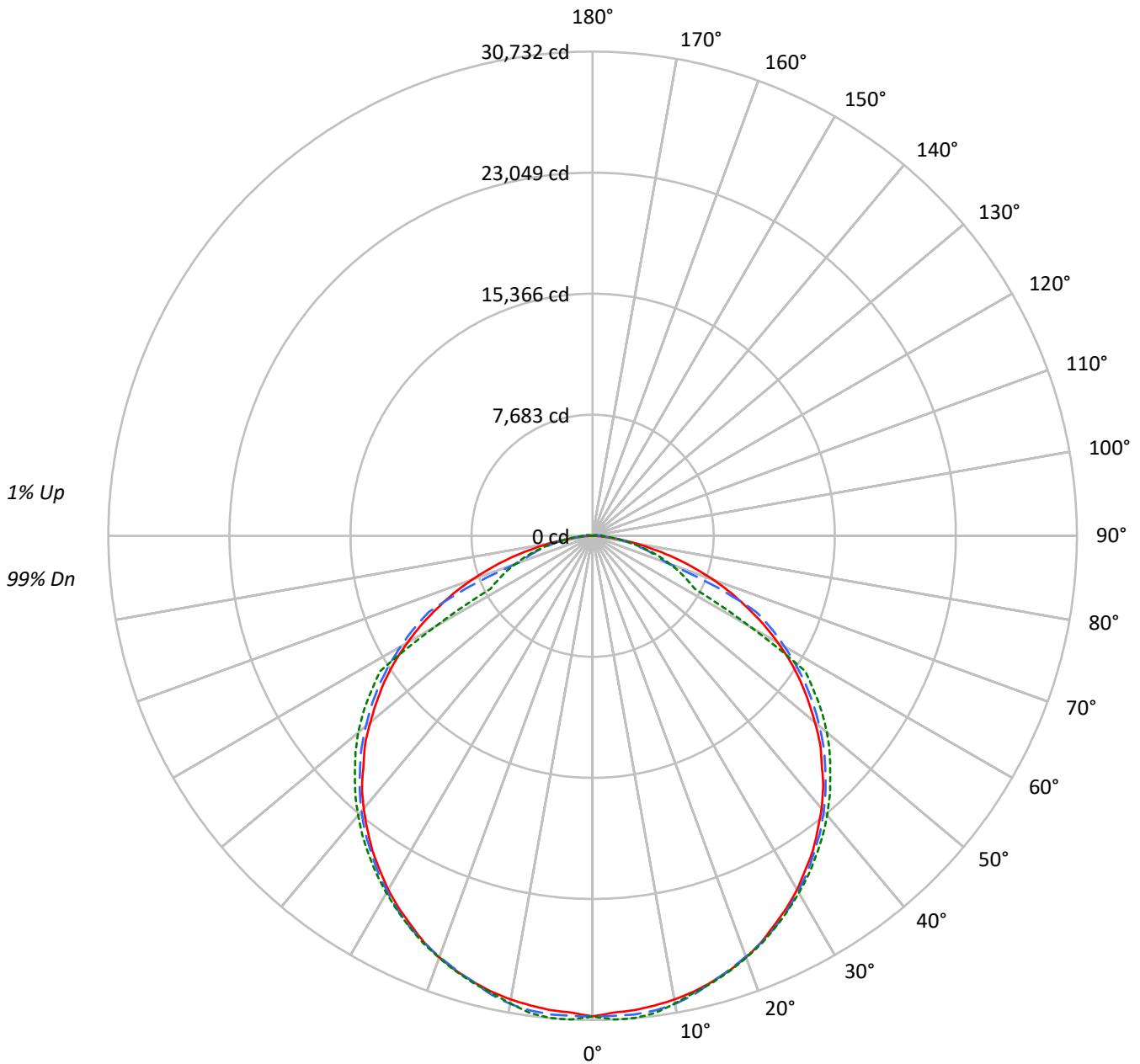
Lumens per Lamp: N/A
Luminaire Lumens: 85654.0 lumens
Efficiency: N/A
Efficacy: 145.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular (W 1.8' x L: 3.78' x H: 0')
CIE Type: Direct

Input Watts (W): 590.1
Input Voltage (V): NR
Input Current (Ain): 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	<i>30507.8</i>
2.5°	<i>30293.5</i>	<i>30395.5</i>	<i>30507.8</i>	<i>30652.3</i>	<i>30732.2</i>
5°	30223.8	30341.7	30497.0	30663.0	<i>30727.1</i>
7.5°	30074.2	30239.7	30389.9	30507.8	<i>30545.2</i>
10°	29886.6	30085.0	30170.5	30159.8	<i>30133.1</i>
12.5°	29635.0	29844.1	29817.4	29693.9	<i>29715.4</i>
15°	29308.5	29527.8	29303.4	29345.9	<i>29367.4</i>
17.5°	28923.1	29137.3	28874.9	28960.5	<i>28966.2</i>
20°	28473.7	28634.1	28430.6	28500.3	<i>28500.3</i>
22.5°	27933.0	28045.2	27959.6	28007.8	<i>28018.6</i>
25°	27274.4	27316.9	27413.3	27456.4	<i>27434.8</i>
27.5°	26643.1	26589.2	26776.8	26878.3	<i>26824.4</i>
30°	25941.4	25855.8	26075.2	26241.2	<i>26177.2</i>
32.5°	25138.3	25085.1	25336.7	25534.5	<i>25497.1</i>
35°	24378.3	24233.8	24512.1	24811.9	<i>24742.2</i>
37.5°	23478.9	23393.3	23709.0	24025.2	<i>23987.8</i>
40°	22601.0	22456.5	22815.2	23189.8	<i>23152.4</i>
42.5°	21659.0	21487.3	21878.4	22328.4	<i>22285.3</i>
45°	20561.2	20523.8	20871.8	21364.3	<i>21326.9</i>
47.5°	19587.6	19400.0	19886.8	20363.4	<i>20406.5</i>
50°	18409.3	18340.1	18784.5	19362.6	<i>19405.1</i>
52.5°	17258.8	17210.6	17675.9	18259.6	<i>18334.5</i>
55°	16112.8	15989.8	16530.5	17081.9	<i>17125.0</i>
57.5°	14887.5	14758.8	15310.3	15909.9	<i>16000.6</i>
60°	13575.4	13452.5	14057.2	14614.3	<i>11621.8</i>
62.5°	12264.0	12178.4	12810.3	9073.7	<i>7312.8</i>
65°	10856.2	10856.2	11487.5	6589.6	<i>6611.2</i>
67.5°	9539.6	9454.0	8565.3	5920.3	<i>5920.3</i>
70°	8126.1	8158.4	4935.3	5187.5	<i>5192.6</i>
72.5°	6707.5	6825.4	4261.4	4464.3	<i>4475.1</i>
75°	5363.8	5465.8	3549.0	3736.6	<i>3752.5</i>
77.5°	3940.1	3029.9	2853.0	2998.1	<i>3003.2</i>
80°	2767.5	1911.1	2184.3	2323.1	<i>2307.3</i>
82.5°	1616.4	1338.1	1600.5	1702.5	<i>1696.9</i>
85°	701.1	888.7	1108.0	1199.2	<i>1134.6</i>
87.5°	224.4	551.5	690.3	744.1	<i>738.5</i>
90°	0.0	299.8	492.5	583.2	<i>573.0</i>
92.5°	0.0	235.2	428.5	535.6	<i>540.7</i>
95°	15.9	155.3	353.7	476.6	<i>476.6</i>
97.5°	10.8	112.2	251.6	374.6	<i>385.4</i>
100°	10.8	90.7	166.1	267.5	<i>273.2</i>
102.5°	26.6	74.8	101.4	171.2	<i>176.8</i>
105°	26.6	58.9	85.6	85.6	<i>80.5</i>



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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)