

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: P829711

Luminaire Tested: **OHBL-100SE-NL-UNV-L830-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829711
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-L830-CD
Description: 100000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 3000K LEDS AND NO LENS
Light Source: -
Ballast/Driver: -

Summary

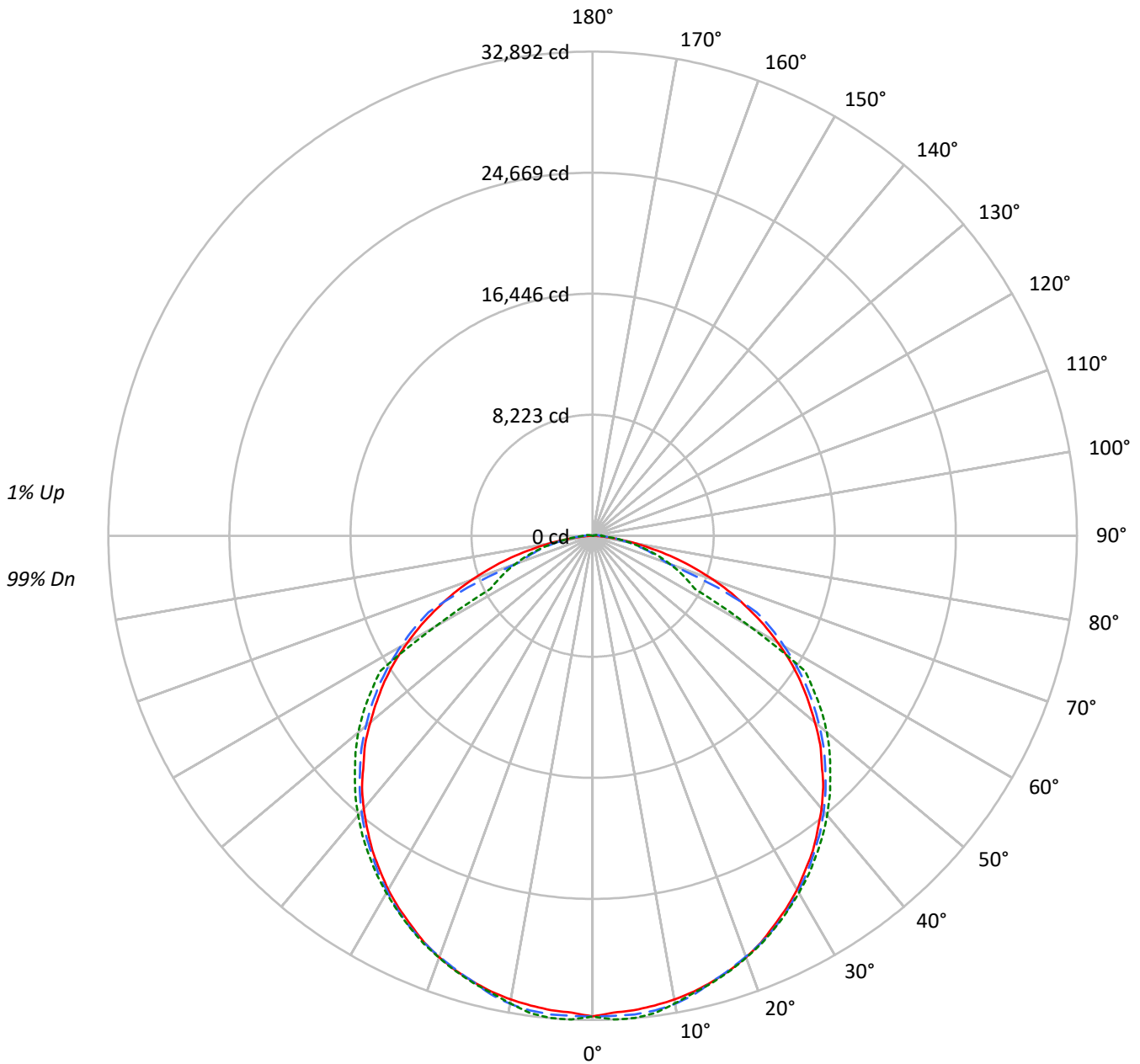
Lumens per Lamp: N/A
Luminaire Lumens: 91674.0 lumens
Efficiency: N/A
Efficacy: 155.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular (W 1.8' x L: 3.78' x H: 0')
CIE Type: Direct

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°	51638	51638	51638
5°	51353	51817	52208
10°	51367	51855	51791
15°	51358	51349	51462
20°	51288	51211	51336
25°	50938	51197	51237
30°	50702	50963	51163
35°	50373	50650	51125
40°	49938	50412	51157
45°	49218	49961	51051
50°	48476	49464	51099
55°	47549	48782	50536
60°	45956	47587	39343
65°	43480	46009	26478
70°	40215	24424	25697
75°	35078	23210	24540
80°	26976	21291	22490
85°	13614	21519	22036



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3102.0	3.4
10°-20°	8882.0	9.7
20°-30°	13514.8	14.7
30°-40°	16432.0	17.9
40°-50°	17277.5	18.8
50°-60°	15776.4	17.2
60°-70°	10113.5	11.0
70°-80°	4777.4	5.2
80°-90°	1324.7	1.4
90°-100°	350.8	0.4
100°-110°	96.1	0.1
110°-120°	26.6	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°	25498.8	27.8
0°-40°	41930.9	45.7
0°-60°	74984.8	81.8
0°-90°	91200.5	99.5
90°-120°	473.5	0.5
90°-150°	473.5	0.5
90°-180°	474.0	0.5
0°-180°	91674.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	32652	32652	32652	32652	32652	
5°	32348	32474	32640	32818	32887	###
15°	31368	31603	31363	31408	31432	8856
25°	29191	29237	29340	29386	29363	13470
35°	26092	25937	26235	26556	26481	16306
45°	22006	21966	22339	22866	22826	17010
55°	17245	17114	17692	18282	18329	15380
65°	11619	11619	12295	7053	7076	11519
75°	5741	5850	3798	3999	4016	6052
85°	750	951	1186	1284	1214	1109
90°	0	321	527	624	613	33
95°	17	166	378	510	510	9
105°	28	63	92	92	86	29
115°	28	40	57	40	6	20
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°	32651.9	32651.9	32651.9	32651.9	<i>32651.9</i>
2.5°	<i>32422.6</i>	<i>32531.8</i>	<i>32651.9</i>	<i>32806.6</i>	<i>32892.1</i>
5°	32348.0	32474.2	32640.4	32818.1	<i>32886.7</i>
7.5°	32187.9	32365.0	32525.7	32651.9	<i>32692.0</i>
10°	31987.1	32199.4	32291.0	32279.5	<i>32251.0</i>
12.5°	31717.8	31941.6	31913.1	31780.9	<i>31803.9</i>
15°	31368.4	31603.1	31362.9	31408.4	<i>31431.5</i>
17.5°	30955.9	31185.2	30904.3	30995.9	<i>31002.0</i>
20°	30474.9	30646.5	30428.8	30503.4	<i>30503.4</i>
22.5°	29896.2	30016.3	29924.7	29976.3	<i>29987.8</i>
25°	29191.3	29236.8	29340.0	29386.1	<i>29363.0</i>
27.5°	28515.6	28458.0	28658.8	28767.3	<i>28709.7</i>
30°	27764.7	27673.1	27907.8	28085.5	<i>28017.0</i>
32.5°	26905.1	26848.1	27117.4	27329.1	<i>27289.1</i>
35°	26091.7	25937.0	26234.8	26555.7	<i>26481.1</i>
37.5°	25129.0	25037.4	25375.3	25713.8	<i>25673.8</i>
40°	24189.4	24034.8	24418.7	24819.7	<i>24779.6</i>
42.5°	23181.3	22997.5	23416.0	23897.7	<i>23851.6</i>
45°	22006.3	21966.3	22338.7	22865.9	<i>22825.8</i>
47.5°	20964.2	20763.4	21284.5	21794.6	<i>21840.7</i>
50°	19703.1	19629.1	20104.7	20723.4	<i>20768.9</i>
52.5°	18471.8	18420.2	18918.2	19543.0	<i>19623.1</i>
55°	17245.2	17113.6	17692.3	18282.5	<i>18328.6</i>
57.5°	15933.8	15796.1	16386.3	17028.1	<i>17125.1</i>
60°	14529.6	14397.9	15045.2	15641.4	<i>12438.7</i>
62.5°	13125.9	13034.3	13710.7	9711.4	<i>7826.8</i>
65°	11619.2	11619.2	12294.9	7052.8	<i>7075.8</i>
67.5°	10210.1	10118.5	9167.3	6336.4	<i>6336.4</i>
70°	8697.2	8731.8	5282.2	5552.1	<i>5557.5</i>
72.5°	7178.9	7305.1	4560.9	4778.1	<i>4789.6</i>
75°	5740.7	5849.9	3798.4	3999.2	<i>4016.2</i>
77.5°	4217.0	3242.8	3053.6	3208.8	<i>3214.3</i>
80°	2962.0	2045.4	2337.8	2486.4	<i>2469.4</i>
82.5°	1730.0	1432.1	1713.0	1822.2	<i>1816.1</i>
85°	750.3	951.1	1185.9	1283.5	<i>1214.4</i>
87.5°	240.2	590.2	738.8	796.4	<i>790.4</i>
90°	0.0	320.9	527.1	624.2	<i>613.3</i>
92.5°	0.0	251.7	458.6	573.2	<i>578.7</i>
95°	17.0	166.2	378.5	510.1	<i>510.1</i>
97.5°	11.5	120.1	269.3	401.0	<i>412.5</i>
100°	11.5	97.1	177.7	286.3	<i>292.4</i>
102.5°	28.5	80.1	108.6	183.2	<i>189.3</i>
105°	28.5	63.1	91.6	91.6	<i>86.1</i>



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	34.6	46.1	63.1	46.1	5.5
115°	28.5	40.0	57.0	40.0	5.5
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°	28.5	57.0	80.1	51.6	17.0
110°	34.6	51.6	68.5	46.1	5.5



(END OF REPORT)