

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: P829855

Luminaire Tested: **OHBL-15SE-NL-UNV-L830-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829855
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-15SE-NL-UNV-L830-CD
Description: 15000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 3000K LEDS AND NO LENS
Light Source: -
Ballast/Driver: -

Summary

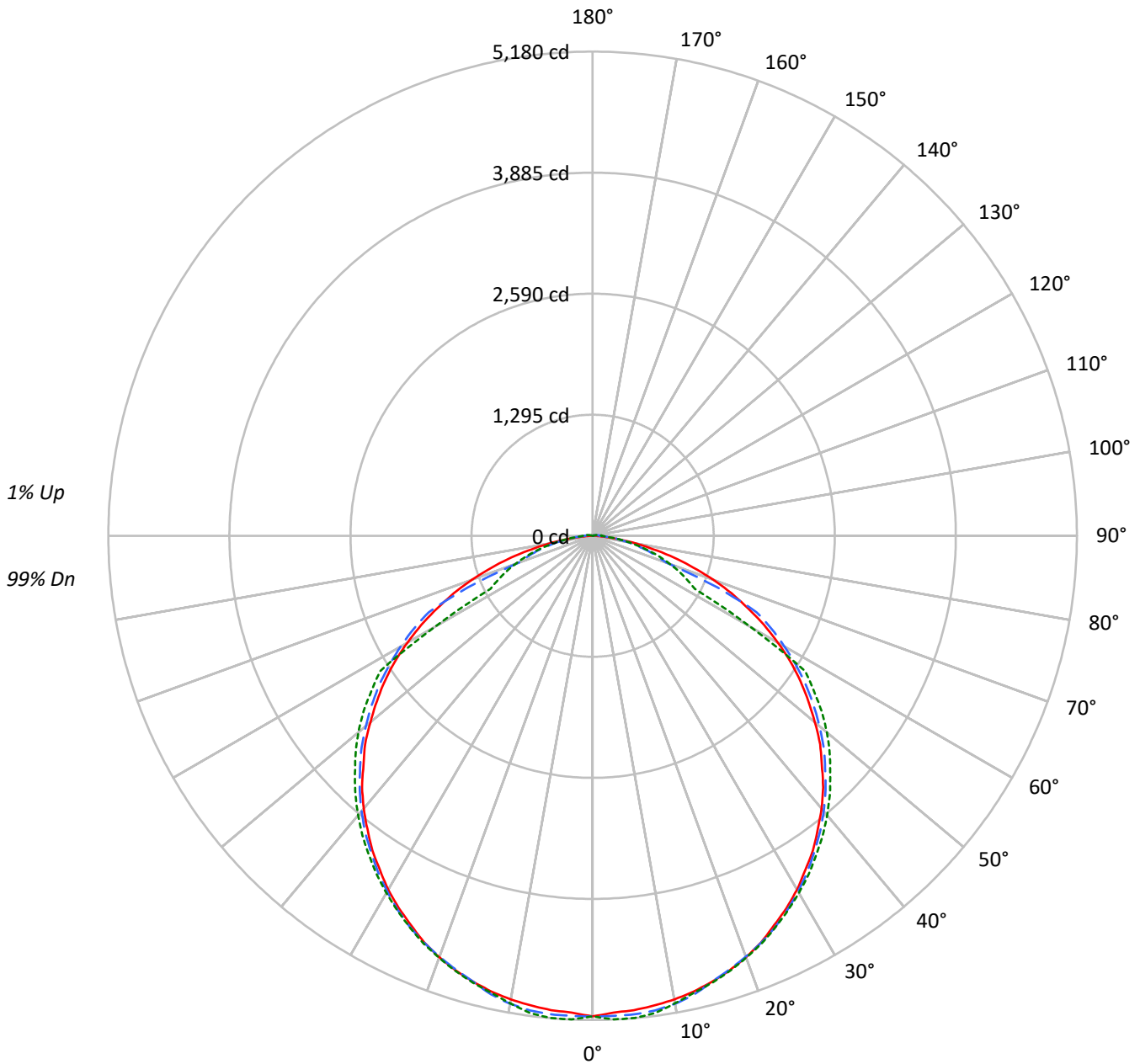
Lumens per Lamp: N/A
Luminaire Lumens: 14436.0 lumens
Efficiency: N/A
Efficacy: 165.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular (W 0.88' x L: 3.78' x H: 0')
CIE Type: Direct

Input Watts (W): 87
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°	16728	16728	16728
5°	16635	16786	16912
10°	16640	16798	16777
15°	16637	16634	16670
20°	16614	16589	16630
25°	16501	16585	16598
30°	16424	16509	16574
35°	16318	16407	16561
40°	16177	16330	16572
45°	15944	16185	16537
50°	15704	16023	16553
55°	15403	15802	16370
60°	14887	15416	12745
65°	14085	14904	8577
70°	13028	7912	8325
75°	11363	7518	7949
80°	8738	6896	7286
85°	4412	6969	7137



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	488.5	3.4
10°-20°	1398.7	9.7
20°-30°	2128.2	14.7
30°-40°	2587.6	17.9
40°-50°	2720.7	18.8
50°-60°	2484.3	17.2
60°-70°	1592.6	11.0
70°-80°	752.3	5.2
80°-90°	208.6	1.4
90°-100°	55.2	0.4
100°-110°	15.1	0.1
110°-120°	4.2	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°	4015.3	27.8
0°-40°	6602.9	45.7
0°-60°	11807.9	81.8
0°-90°	14361.4	99.5
90°-120°	74.6	0.5
90°-150°	74.6	0.5
90°-180°	75.0	0.5
0°-180°	14436.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5142	5142	5142	5142	5142	
5°	5094	5114	5140	5168	5179	484
15°	4940	4977	4939	4946	4950	1395
25°	4597	4604	4620	4628	4624	2121
35°	4109	4084	4131	4182	4170	2568
45°	3465	3459	3518	3601	3594	2679
55°	2716	2695	2786	2879	2886	2422
65°	1830	1830	1936	1111	1114	1814
75°	904	921	598	630	632	953
85°	118	150	187	202	191	175
90°	0	50	83	98	97	5
95°	3	26	60	80	80	1
105°	4	10	14	14	14	5
115°	4	6	9	6	1	3
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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CATALOG NUMBER: OHBL-15SE-NL-UNV-L830-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5141.7	5141.7	5141.7	5141.7	5141.7
2.5°	5105.6	5122.8	5141.7	5166.1	5179.6
5°	5093.9	5113.7	5139.9	5167.9	5178.7
7.5°	5068.7	5096.6	5121.9	5141.7	5148.0
10°	5037.0	5070.5	5084.9	5083.1	5078.6
12.5°	4994.6	5029.9	5025.4	5004.6	5008.2
15°	4939.6	4976.6	4938.8	4945.9	4949.5
17.5°	4874.7	4910.8	4866.5	4881.0	4881.9
20°	4798.9	4825.9	4791.7	4803.4	4803.4
22.5°	4707.8	4726.7	4712.3	4720.4	4722.2
25°	4596.8	4604.0	4620.2	4627.5	4623.8
27.5°	4490.4	4481.3	4512.9	4530.0	4520.9
30°	4372.1	4357.7	4394.7	4422.7	4411.9
32.5°	4236.8	4227.8	4270.2	4303.5	4297.2
35°	4108.7	4084.3	4131.2	4181.8	4170.0
37.5°	3957.1	3942.7	3995.9	4049.2	4042.9
40°	3809.1	3784.8	3845.2	3908.4	3902.1
42.5°	3650.4	3621.4	3687.3	3763.2	3755.9
45°	3465.4	3459.1	3517.7	3600.7	3594.4
47.5°	3301.3	3269.6	3351.7	3432.0	3439.3
50°	3102.7	3091.0	3165.9	3263.3	3270.5
52.5°	2908.8	2900.6	2979.1	3077.5	3090.1
55°	2715.6	2694.9	2786.0	2879.0	2886.2
57.5°	2509.1	2487.4	2580.4	2681.4	2696.7
60°	2288.0	2267.3	2369.2	2463.1	1958.7
62.5°	2067.0	2052.5	2159.0	1529.3	1232.5
65°	1829.7	1829.7	1936.1	1110.6	1114.2
67.5°	1607.8	1593.4	1443.6	997.8	997.8
70°	1369.6	1375.0	831.8	874.3	875.2
72.5°	1130.5	1150.3	718.2	752.4	754.2
75°	904.0	921.2	598.1	629.8	632.4
77.5°	664.1	510.6	480.8	505.3	506.2
80°	466.4	322.1	368.1	391.5	388.9
82.5°	272.4	225.5	269.7	286.9	286.0
85°	118.2	149.8	186.7	202.1	191.2
87.5°	37.8	92.9	116.3	125.4	124.5
90°	0.0	50.5	83.0	98.3	96.6
92.5°	0.0	39.6	72.2	90.3	91.1
95°	2.7	26.2	59.6	80.3	80.3
97.5°	1.8	18.9	42.4	63.1	65.0
100°	1.8	15.3	28.0	45.1	46.0
102.5°	4.5	12.6	17.1	28.8	29.8
105°	4.5	9.9	14.4	14.4	13.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	5.4	7.3	9.9	7.3	0.9
115°	4.5	6.3	9.0	6.3	0.9
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°	4.5	9.0	12.6	8.1	2.7
110°	5.4	8.1	10.8	7.3	0.9



(END OF REPORT)