

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: P826487

Luminaire Tested: **OHBL-15SE-NL-UNV-L830-CD-UPL15**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P826487  
REPORT IS A COMBINATION OF REPORTS P826117 AND G3-2310-221-10  
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-UPL15  
Description:  
Light Source: -  
Ballast/Driver: -

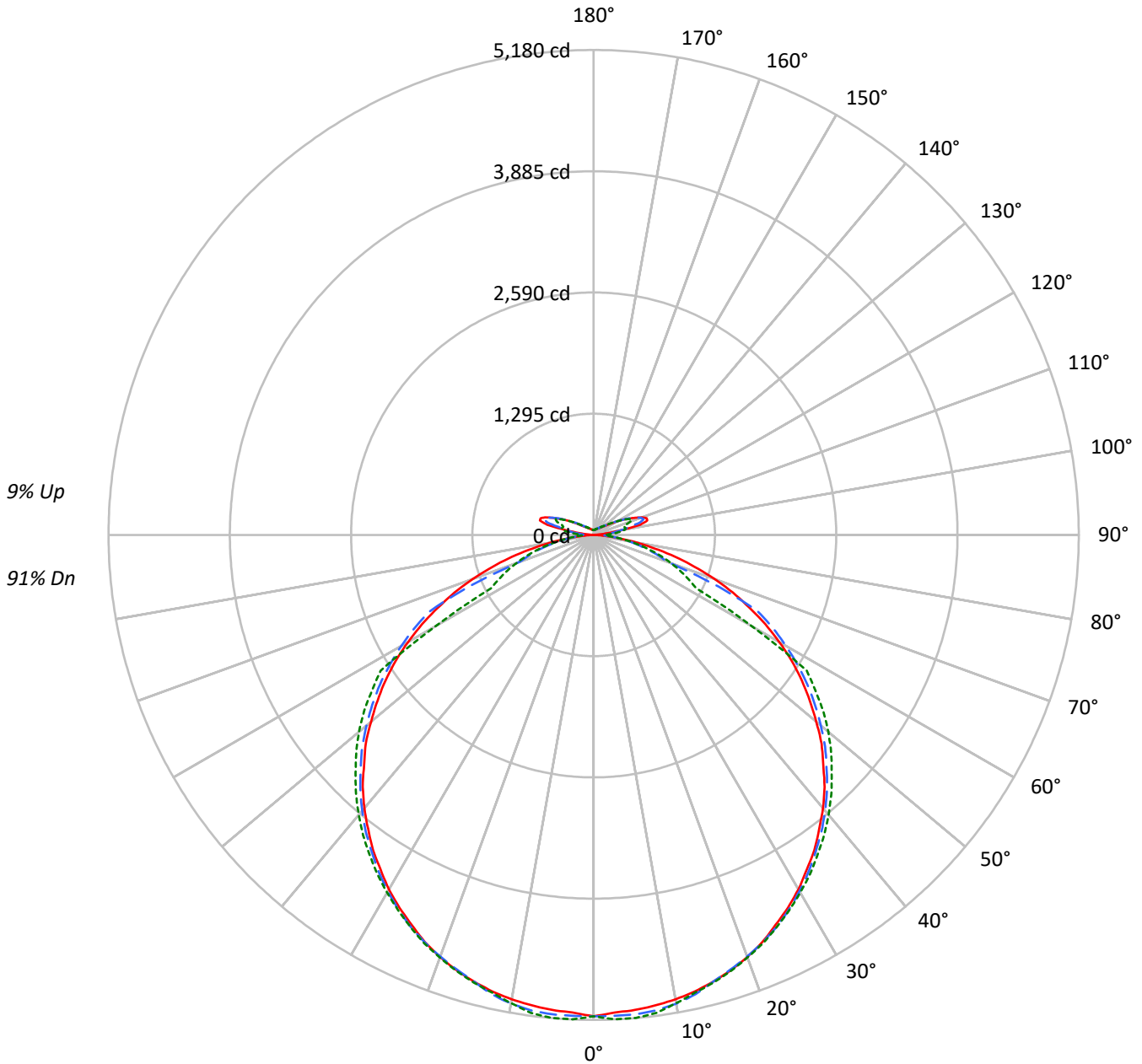
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15849.3 lumens  
Efficiency: N/A  
Efficacy: 162.9 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 0.88' x H: 0.1')  
CIE Type: Direct  
  
Input Watts (W): 97.3  
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	117	117	117	117	113	113	113	113	106	106	106	99	99	99	93	93	93	91																			
1	107	103	99	95	103	99	96	92	93	91	88	88	86	84	83	81	79	77																			
2	98	90	83	78	94	87	81	76	82	77	73	77	73	70	73	70	67	64																			
3	89	79	71	65	86	77	69	64	72	66	61	68	63	59	65	61	57	54																			
4	82	70	61	55	79	68	60	54	64	58	52	61	55	51	58	53	49	47																			
5	75	62	54	47	72	61	53	47	58	51	45	55	49	44	52	47	43	40																			
6	69	56	47	41	67	55	47	41	52	45	40	49	43	38	47	42	37	35																			
7	64	51	42	36	62	50	42	36	47	40	35	45	39	34	43	37	33	31																			
8	60	46	38	32	58	45	37	32	43	36	31	41	35	30	39	34	30	28																			
9	56	42	34	29	54	41	34	29	40	33	28	38	32	27	36	31	27	25																			
10	52	39	31	26	50	38	31	26	37	30	25	35	29	25	34	28	24	23																			

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

	0°	45°	90°
0°	16727	16727	16727
5°	16470	16640	16873
10°	16311	16508	16699
15°	16142	16202	16553
20°	15950	16009	16471
25°	15666	15849	16395
30°	15407	15611	16324
35°	15109	15338	16260
40°	14761	15071	16212
45°	14308	14719	16111
50°	13821	14324	16047
55°	13241	13836	15775
60°	12427	13149	12186
65°	11313	12282	8117
70°	9914	6213	7760
75°	7965	5483	7235
80°	5302	4408	6336
85°	1913	3262	5480



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	488.5	3.1
10°-20°	1398.6	8.8
20°-30°	2128.1	13.4
30°-40°	2587.5	16.3
40°-50°	2720.6	17.2
50°-60°	2484.3	15.7
60°-70°	1592.5	10.0
70°-80°	752.3	4.7
80°-90°	212.2	1.3
90°-100°	190.8	1.2
100°-110°	484.7	3.1
110°-120°	407.7	2.6
120°-130°	193.6	1.2
130°-140°	96.8	0.6
140°-150°	56.2	0.4
150°-160°	32.8	0.2
160°-170°	17.0	0.1
170°-180°	5.2	0.0
0°-30°	4015.2	25.3
0°-40°	6602.7	41.7
0°-60°	11807.7	74.5
0°-90°	14364.7	90.6
90°-120°	1083.1	6.8
90°-150°	1429.7	9.0
90°-180°	1485.0	9.4
0°-180°	15849.3	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	4976	4939	4946	4949	1395
25°	4597	4604	4620	4627	4624	2121
35°	4109	4084	4131	4182	4170	2568
45°	3465	3459	3518	3601	3594	2678
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°	3	71	110	134	137	7
95°	29	93	159	212	234	94
105°	594	591	510	364	335	562
115°	410	412	418	414	400	413
125°	196	208	213	211	210	186
135°	116	120	123	125	126	92
145°	85	86	88	90	90	54
155°	68	69	71	71	72	32
165°	59	59	60	60	60	17
175°	53	53	53	54	54	5
180°	53	53	53	53	53	



TEST NUMBER: P826487

CATALOG NUMBER: OHBL-15SE-NL-UNV-L830-CD-UPL15

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5141.6	5141.6	5141.6	5141.6	5141.6
2.5°	5105.5	5122.7	5141.6	5166.0	5179.5
5°	5093.8	5113.7	5139.8	5167.8	5178.6
7.5°	5068.6	5096.5	5121.8	5141.6	5147.9
10°	5036.9	5070.4	5084.8	5083.0	5078.5
12.5°	4994.6	5029.7	5025.3	5004.4	5008.1
15°	4939.5	4976.5	4938.6	4945.8	4949.4
17.5°	4874.5	4910.6	4866.4	4880.9	4881.8
20°	4798.8	4825.9	4791.5	4803.3	4803.3
22.5°	4707.7	4726.6	4712.1	4720.3	4722.1
25°	4596.7	4603.8	4620.1	4627.4	4623.7
27.5°	4490.3	4481.2	4512.8	4529.9	4520.8
30°	4372.0	4357.6	4394.5	4422.6	4411.8
32.5°	4236.7	4227.7	4270.1	4303.4	4297.1
35°	4108.6	4084.2	4131.1	4181.6	4169.9
37.5°	3957.0	3942.6	3995.8	4049.1	4042.8
40°	3809.0	3784.7	3845.1	3908.3	3902.0
42.5°	3650.3	3621.4	3687.2	3763.1	3755.8
45°	3465.3	3459.0	3517.6	3600.6	3594.4
47.5°	3301.1	3269.6	3351.6	3432.0	3439.2
50°	3102.6	3090.9	3165.8	3263.3	3270.4
52.5°	2908.7	2900.6	2979.0	3077.3	3090.0
55°	2715.5	2694.9	2786.0	2879.0	2886.2
57.5°	2509.1	2487.4	2580.3	2681.4	2696.7
60°	2288.0	2267.2	2369.1	2463.0	1958.7
62.5°	2067.0	2052.5	2159.0	1529.3	1232.4
65°	1829.7	1829.7	1936.0	1110.6	1114.2
67.5°	1607.7	1593.3	1443.6	997.7	997.7
70°	1369.5	1375.0	831.7	874.3	875.1
72.5°	1130.4	1150.4	718.2	752.4	754.2
75°	903.9	921.2	598.2	629.7	632.4
77.5°	664.0	510.6	480.8	505.3	506.1
80°	466.4	322.1	368.1	391.5	388.9
82.5°	272.4	225.5	269.8	286.9	286.0
85°	118.2	149.7	186.8	202.1	191.2
87.5°	37.8	93.0	116.3	125.4	124.4
90°	2.8	71.0	110.0	133.6	136.6
92.5°	9.3	65.7	115.0	149.8	160.0
95°	28.8	93.1	159.2	212.4	233.8
97.5°	156.3	192.9	232.3	281.8	300.4
100°	315.5	354.0	306.2	337.2	344.8
102.5°	508.8	500.2	377.2	352.7	348.0
105°	593.5	590.6	509.5	364.3	334.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	479.1	487.4	481.7	462.3	439.1
115°	410.2	412.0	418.4	413.9	400.0
117.5°	348.0	346.2	349.9	348.0	346.2
120°	290.3	294.1	295.0	293.1	292.2
122.5°	240.1	247.5	252.2	249.4	248.5
125°	196.3	207.5	213.1	211.2	210.3
127.5°	167.5	174.0	181.5	181.5	179.6
130°	145.2	149.8	155.4	156.3	156.3
132.5°	129.3	133.1	137.7	138.7	139.6
135°	116.3	120.0	122.8	124.7	125.6
137.5°	107.0	108.9	112.6	113.5	114.5
140°	97.7	100.5	103.3	104.2	105.2
142.5°	91.2	93.1	94.9	96.8	96.8
145°	84.7	86.5	88.4	90.3	90.3
147.5°	80.0	81.9	83.8	83.8	84.7
150°	75.4	77.2	78.2	79.1	79.1
152.5°	71.7	72.6	74.4	74.4	75.4
155°	67.9	68.9	70.7	70.7	71.7
157.5°	65.1	66.1	67.0	67.9	67.9
160°	62.3	63.3	64.2	64.2	65.1
162.5°	60.5	61.4	61.4	62.3	62.3
165°	58.6	58.6	59.6	59.6	59.6
167.5°	56.8	56.8	57.7	57.7	58.6
170°	54.9	55.8	55.8	55.8	56.8
172.5°	54.0	54.0	54.9	54.9	54.9
175°	53.0	53.0	53.0	54.0	54.0
177.5°	52.1	53.0	53.0	53.0	53.0
180°	53.0	53.0	53.0	53.0	53.0



Report Generated By 670246072 / DESKTOP-50001EG







— 0°-180°    - - 45°-225°    - - - - 90°-270°







107.5°	593.5	598.9	558.8	428.7	355.4
110°	548.9	556.2	534.7	483.7	419.6



(END OF REPORT)