

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: P828285

Luminaire Tested: **OHBL-15SE-N-UNV-L940-CD-UPL15**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P828285  
REPORT IS A COMBINATION OF REPORTS P826116 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-N-UNV-L940-CD-UPL15  
Description:  
Light Source: -  
Ballast/Driver: -

**Summary**

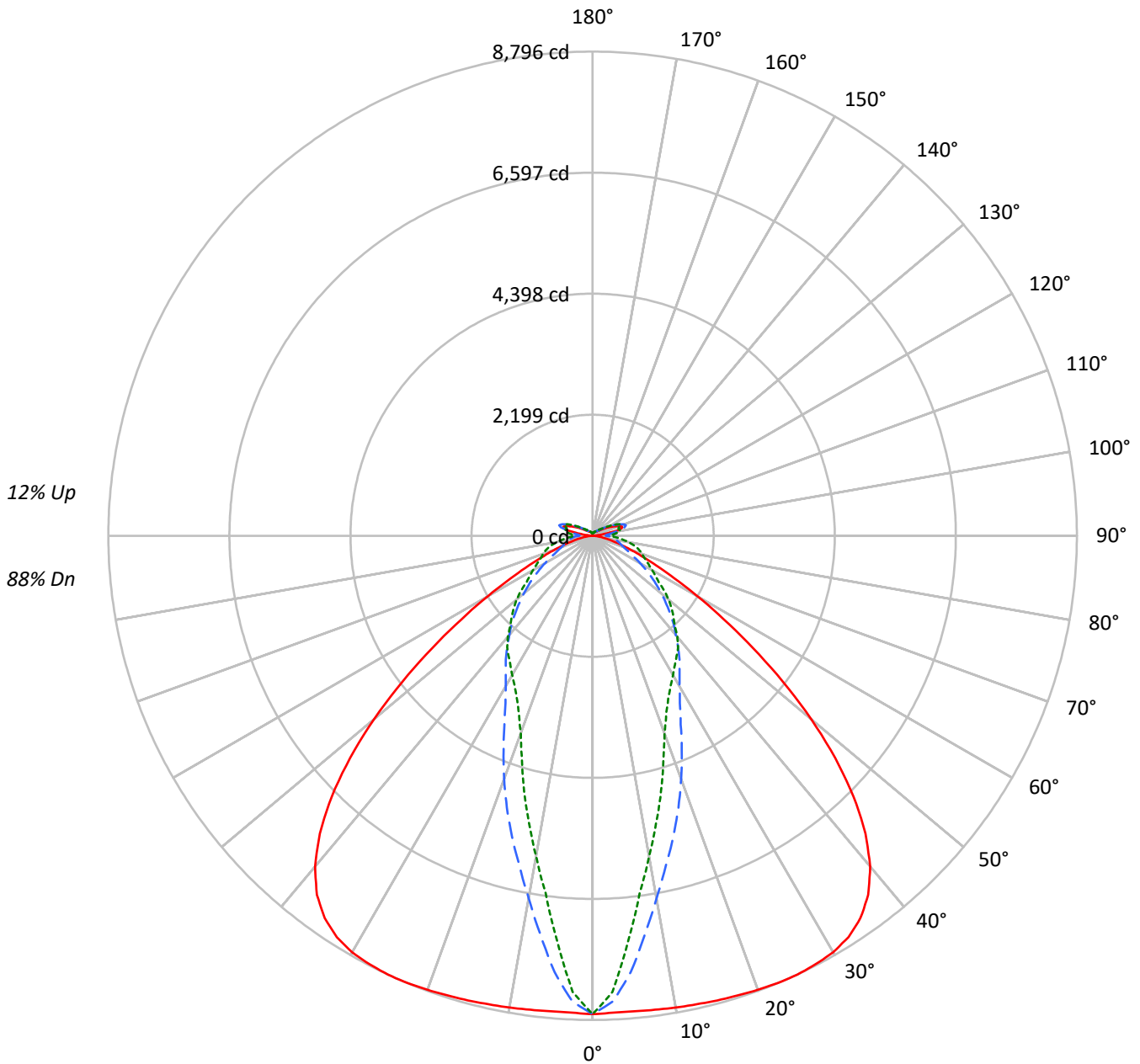
Lumens per Lamp: N/A  
Luminaire Lumens: 14146.1 lumens  
Efficiency: N/A  
Efficacy: 145.4 lumens/watt  
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 0.88' x H: 0.17')  
CIE Type: Semi-Direct

Input Watts (W): 97.3  
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	116	116	116	116	112	112	112	112	104	104	104	97	97	97	91	91	91	88																			
1	107	102	98	95	103	99	95	92	92	90	87	86	84	82	81	79	78	75																			
2	98	91	84	79	94	88	82	77	82	78	74	77	74	70	73	70	67	64																			
3	90	81	74	68	87	78	72	66	74	68	64	69	65	61	65	62	58	56																			
4	83	73	65	59	80	71	63	58	67	60	56	63	58	54	59	55	52	49																			
5	77	66	58	52	75	64	56	51	61	54	49	57	52	48	54	50	46	44																			
6	72	60	52	46	69	58	51	45	55	49	44	53	47	43	50	45	41	39																			
7	67	55	47	41	65	53	46	41	51	44	40	48	43	38	46	41	37	35																			
8	63	50	43	37	61	49	42	37	47	41	36	45	39	35	43	38	34	32																			
9	59	47	39	34	57	46	38	34	44	37	33	42	36	32	40	35	31	29																			
10	56	43	36	31	54	42	35	31	41	34	30	39	33	29	37	32	29	27																			

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

	0°	45°	90°
0°	28270	28270	28270
5°	27858	25603	24054
10°	27819	21449	19382
15°	28003	18242	15987
20°	28415	15338	12997
25°	29000	12621	11450
30°	29571	10805	10698
35°	29720	9782	10257
40°	28714	8772	9799
45°	25912	7862	9144
50°	21382	6882	8662
55°	15827	5962	7794
60°	10742	5045	7564
65°	6938	4273	7539
70°	4487	3923	8105
75°	2880	3923	8981
80°	1750	4143	9829
85°	807	4765	11723



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	731.5	5.2
10°-20°	1720.8	12.2
20°-30°	2157.0	15.2
30°-40°	2288.8	16.2
40°-50°	2069.5	14.6
50°-60°	1500.5	10.6
60°-70°	941.6	6.7
70°-80°	623.1	4.4
80°-90°	362.3	2.6
90°-100°	300.6	2.1
100°-110°	558.8	3.9
110°-120°	451.0	3.2
120°-130°	216.8	1.5
130°-140°	107.0	0.8
140°-150°	61.5	0.4
150°-160°	34.5	0.2
160°-170°	15.9	0.1
170°-180°	4.8	0.0
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0°-30°	4609.3	32.6
0°-40°	6898.1	48.8
0°-60°	10468.1	74.0
0°-90°	12395.1	87.6
90°-120°	1310.4	9.3
90°-150°	1695.6	12.0
90°-180°	1751.0	12.4
0°-180°	14146.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	8690	8690	8690	8690	8690	
5°	8672	8450	7954	7585	7394	829
15°	8738	7122	5657	5031	4803	2478
25°	8796	5507	3788	3362	3255	4064
35°	8481	3661	2749	2663	2662	5272
45°	6705	2319	1992	2040	2075	5108
55°	3550	1437	1300	1410	1461	3207
65°	1270	834	753	964	1072	1321
75°	392	449	505	785	832	437
85°	69	186	370	514	472	82
90°	3	97	239	335	342	6
95°	28	117	282	380	411	90
105°	557	579	600	509	487	528
115°	388	405	475	497	491	392
125°	193	207	246	257	255	182
135°	117	122	136	149	150	93
145°	89	92	95	103	102	56
155°	73	77	79	80	79	33
165°	55	55	56	56	56	16
175°	50	50	50	50	50	5
180°	50	50	50	50	50	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	8689.7	8689.7	8689.7	8689.7	8689.7
2.5°	8671.6	8621.9	8467.3	8373.0	8293.5
5°	8672.4	8449.9	7953.7	7584.8	7393.8
7.5°	8684.8	8190.2	7296.2	6757.8	6547.7
10°	8703.8	7868.5	6682.6	6108.5	5912.6
12.5°	8717.8	7506.3	6142.5	5552.8	5337.7
15°	8738.5	7122.5	5657.0	5030.9	4802.6
17.5°	8757.6	6761.1	5177.3	4523.1	4269.2
20°	8776.6	6371.5	4697.6	4023.5	3814.3
22.5°	8794.8	5960.5	4229.5	3635.7	3492.6
25°	8796.4	5507.3	3787.8	3362.0	3255.2
27.5°	8775.0	5037.6	3429.8	3132.9	3066.7
30°	8737.7	4581.8	3151.8	2967.4	2920.3
32.5°	8645.1	4117.0	2936.8	2807.8	2780.5
35°	8481.3	3661.3	2749.1	2663.1	2662.2
37.5°	8223.3	3256.9	2545.6	2530.8	2549.0
40°	7842.0	2902.9	2353.0	2392.6	2392.6
42.5°	7333.4	2595.3	2178.4	2219.0	2208.2
45°	6704.8	2319.1	1992.3	2040.3	2075.0
47.5°	5976.2	2075.9	1802.1	1894.8	1942.7
50°	5183.9	1844.3	1628.5	1746.7	1801.3
52.5°	4353.6	1630.1	1458.9	1594.6	1638.4
55°	3549.7	1437.4	1300.1	1410.1	1460.6
57.5°	2821.9	1253.8	1144.6	1248.9	1353.0
60°	2195.8	1095.8	998.2	1147.1	1251.3
62.5°	1677.2	955.3	860.9	1052.0	1156.2
65°	1269.5	833.6	752.6	964.3	1071.9
67.5°	956.9	728.6	668.3	900.7	1005.7
70°	718.7	626.9	600.4	860.9	955.3
72.5°	531.0	533.4	546.7	826.2	898.1
75°	392.0	449.1	505.3	784.8	832.0
77.5°	280.4	372.2	468.1	735.2	751.8
80°	194.3	303.5	429.2	669.9	655.8
82.5°	121.5	243.2	394.5	597.9	559.1
85°	68.7	186.1	369.7	514.5	472.3
87.5°	30.6	138.9	323.3	401.1	374.6
90°	2.6	96.9	239.4	334.9	341.8
92.5°	10.3	88.9	237.6	331.9	348.8
95°	27.6	117.2	281.6	379.9	411.4
97.5°	148.5	210.6	354.4	442.5	468.1
100°	298.0	359.5	422.9	492.2	506.5
102.5°	477.1	495.3	486.2	501.8	503.3
105°	557.0	579.0	599.8	508.9	486.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	450.8	476.7	544.2	555.8	544.4
115°	388.2	404.7	475.2	496.6	491.2
117.5°	335.1	345.8	407.9	426.9	426.0
120°	281.2	294.6	345.1	360.7	359.9
122.5°	234.2	247.8	293.5	305.0	303.3
125°	193.4	207.1	246.2	256.9	255.2
127.5°	165.6	173.4	207.6	219.2	216.6
130°	144.8	150.8	175.8	188.2	188.2
132.5°	129.1	134.2	153.5	166.0	166.8
135°	116.9	122.1	135.5	148.8	149.6
137.5°	108.2	112.5	122.6	134.2	135.0
140°	99.6	103.8	111.4	122.2	123.0
142.5°	94.3	96.9	101.9	111.9	111.9
145°	89.0	91.6	95.0	103.4	102.5
147.5°	84.7	88.1	90.7	94.8	94.9
150°	80.3	84.6	85.5	88.8	88.0
152.5°	76.9	80.2	82.0	83.6	83.6
155°	73.4	76.8	79.3	80.2	79.4
157.5°	60.9	61.7	62.6	63.5	63.5
160°	58.3	59.1	60.0	60.0	60.9
162.5°	56.5	57.4	57.4	58.3	58.3
165°	54.8	54.8	55.6	55.6	55.6
167.5°	53.0	53.0	53.9	53.9	54.8
170°	51.3	52.2	52.2	52.2	53.0
172.5°	50.4	50.4	51.3	51.3	51.3
175°	49.6	49.6	49.6	50.4	50.4
177.5°	48.7	49.6	49.6	49.6	49.6
180°	49.6	49.6	49.6	49.6	49.6



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	557.0	585.1	636.1	555.9	498.3
110°	515.2	542.7	604.4	590.7	542.6



(END OF REPORT)