

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: P828321

Luminaire Tested: **OHBL-18SE-NL-UNV-L940-CD-UPL12**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P828321  
REPORT IS A COMBINATION OF REPORTS P826069 AND G3-2310-221-12  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-18SE-NL-UNV-L940-CD-UPL12  
Description:  
Light Source: -  
Ballast/Driver: -

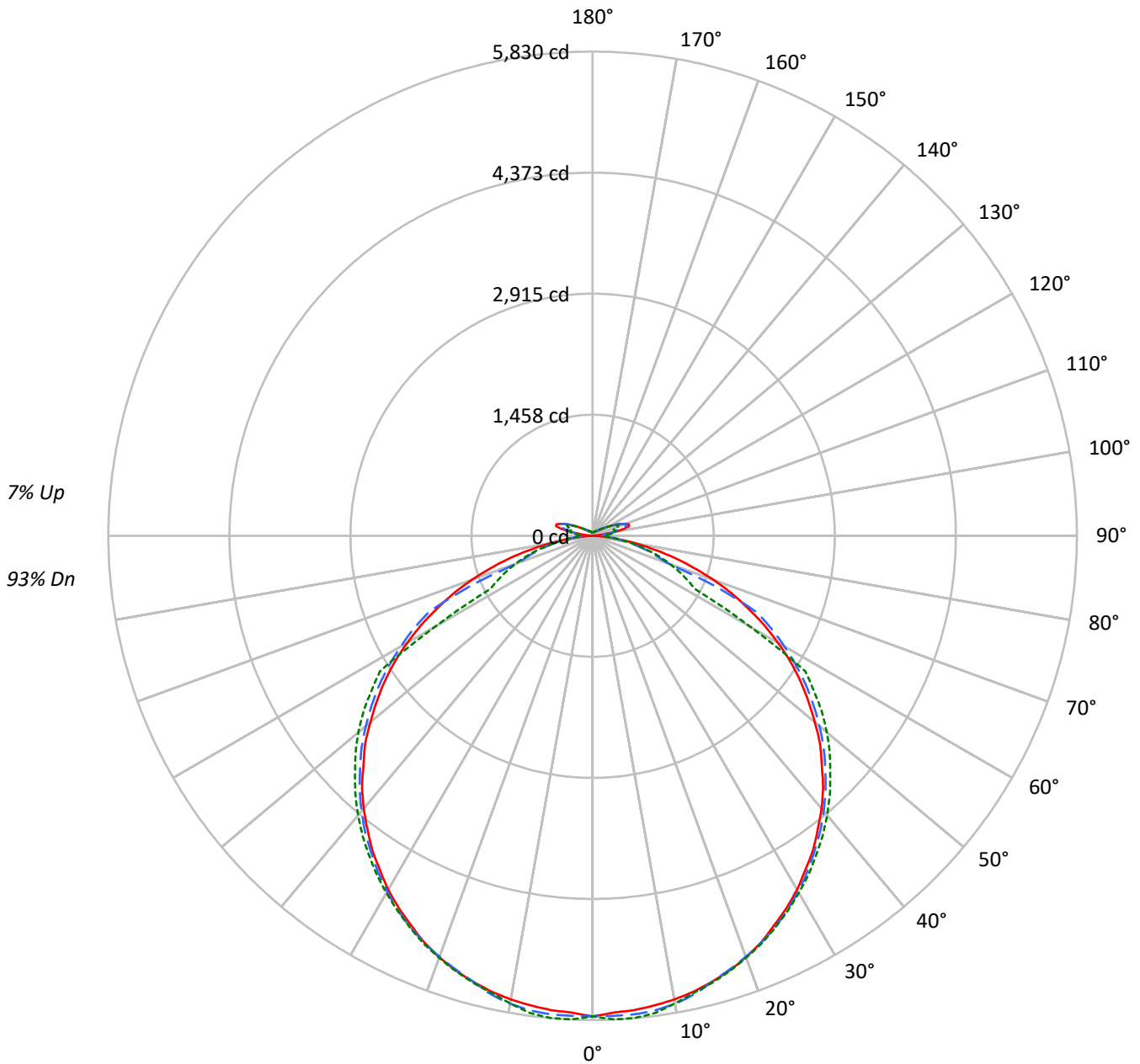
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17330.0 lumens  
Efficiency: N/A  
Efficacy: 152.8 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.1')  
CIE Type: Direct  
  
Input Watts (W): 113.4  
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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	96	96	93																			
1	108	103	99	95	104	100	97	93	95	92	89	90	87	85	85	83	82	79																			
2	98	90	84	78	95	88	82	77	83	78	74	79	75	71	75	72	69	66																			
3	90	79	72	65	87	77	70	64	73	67	62	70	65	60	66	62	59	56																			
4	82	70	62	55	79	69	61	55	65	59	53	62	56	52	59	54	50	48																			
5	75	63	54	48	73	61	53	47	59	51	46	56	50	45	53	48	44	41																			
6	70	57	48	41	67	55	47	41	53	46	40	50	44	39	48	43	38	36																			
7	64	51	43	37	62	50	42	36	48	41	35	46	40	35	44	38	34	32																			
8	60	47	38	33	58	46	38	32	44	37	32	42	36	31	40	35	30	29																			
9	56	43	35	29	54	42	34	29	40	33	28	39	32	28	37	32	27	26																			
10	52	39	32	26	51	39	31	26	37	30	26	36	30	25	35	29	25	23																			

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

	0°	45°	90°
0°	9884	9884	9884
5°	9778	9865	9970
10°	9729	9820	9867
15°	9675	9670	9781
20°	9607	9589	9732
25°	9484	9528	9688
30°	9380	9422	9646
35°	9253	9297	9608
40°	9100	9178	9579
45°	8888	9012	9520
50°	8659	8825	9482
55°	8383	8587	9321
60°	7968	8236	7201
65°	7374	7786	4796
70°	6608	4003	4586
75°	5486	3617	4275
80°	3853	3026	3744
85°	1546	2424	3238



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	549.8	3.2
10°-20°	1574.2	9.1
20°-30°	2395.2	13.8
30°-40°	2912.2	16.8
40°-50°	3062.1	17.7
50°-60°	2796.0	16.1
60°-70°	1792.4	10.3
70°-80°	846.7	4.9
80°-90°	237.5	1.4
90°-100°	165.6	1.0
100°-110°	376.9	2.2
110°-120°	313.8	1.8
120°-130°	148.1	0.9
130°-140°	74.1	0.4
140°-150°	43.1	0.2
150°-160°	25.2	0.1
160°-170°	13.1	0.1
170°-180°	4.0	0.0
0°-30°	4519.1	26.1
0°-40°	7431.4	42.9
0°-60°	13289.5	76.7
0°-90°	16166.1	93.3
90°-120°	856.3	4.9
90°-150°	1121.7	6.5
90°-180°	1164.0	6.7
0°-180°	17330.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5787	5787	5787	5787	5787	
5°	5733	5755	5785	5816	5828	545
15°	5559	5601	5558	5566	5570	1570
25°	5174	5182	5200	5208	5204	2387
35°	4624	4597	4650	4706	4693	2890
45°	3900	3893	3959	4052	4045	3015
55°	3056	3033	3136	3240	3248	2726
65°	2059	2059	2179	1250	1254	2042
75°	1017	1037	673	709	712	1073
85°	133	169	210	227	215	197
90°	3	72	114	138	139	8
95°	25	80	142	191	207	73
105°	454	456	395	285	262	430
115°	318	320	324	318	307	316
125°	153	159	163	161	162	143
135°	89	91	95	96	96	71
145°	65	67	68	69	70	41
155°	52	53	54	55	55	24
165°	45	45	46	46	46	13
175°	41	41	41	41	41	4
180°	40	40	40	40	40	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5786.8	5786.8	5786.8	5786.8	5786.8
2.5°	5746.2	5765.5	5786.8	5814.3	5829.5
5°	5733.0	5755.4	5784.8	5816.3	5828.5
7.5°	5704.6	5736.0	5764.5	5786.8	5794.0
10°	5669.0	5706.7	5722.9	5720.9	5715.8
12.5°	5621.3	5661.0	5655.9	5632.5	5636.6
15°	5559.4	5601.0	5558.4	5566.5	5570.5
17.5°	5486.3	5526.9	5477.2	5493.4	5494.5
20°	5401.1	5431.4	5392.9	5406.1	5406.1
22.5°	5298.5	5319.8	5303.5	5312.7	5314.7
25°	5173.5	5181.6	5199.9	5208.1	5204.0
27.5°	5053.8	5043.6	5079.2	5098.4	5088.2
30°	4920.7	4904.4	4946.1	4977.6	4965.4
32.5°	4768.4	4758.3	4806.0	4843.5	4836.5
35°	4624.2	4596.8	4649.6	4706.5	4693.3
37.5°	4453.6	4437.4	4497.3	4557.2	4550.2
40°	4287.1	4259.7	4327.7	4398.8	4391.7
42.5°	4108.4	4075.9	4150.0	4235.3	4227.2
45°	3900.2	3893.1	3959.1	4052.5	4045.4
47.5°	3715.5	3679.9	3772.3	3862.7	3870.9
50°	3491.9	3478.8	3563.2	3672.8	3680.9
52.5°	3273.7	3264.6	3352.8	3463.6	3477.8
55°	3056.4	3033.1	3135.6	3240.2	3248.3
57.5°	2824.0	2799.5	2904.1	3017.8	3035.1
60°	2575.0	2551.7	2666.4	2772.1	2204.5
62.5°	2326.3	2310.0	2429.9	1721.2	1387.1
65°	2059.3	2059.3	2179.0	1250.0	1254.0
67.5°	1809.5	1793.3	1624.7	1123.0	1123.0
70°	1541.4	1547.5	936.1	984.0	985.0
72.5°	1272.3	1294.7	808.3	846.8	848.8
75°	1017.4	1036.8	673.2	708.8	711.8
77.5°	747.4	574.7	541.1	568.7	569.7
80°	525.0	362.5	414.3	440.6	437.7
82.5°	306.6	253.8	303.6	322.9	321.9
85°	133.0	168.6	210.1	227.4	215.2
87.5°	42.6	104.6	130.9	141.1	140.1
90°	2.6	72.5	114.2	137.5	139.1
92.5°	7.8	64.6	114.3	148.5	153.9
95°	24.8	79.9	141.9	191.3	206.9
97.5°	119.4	149.1	192.1	241.4	252.2
100°	242.0	275.4	246.2	275.1	280.5
102.5°	386.7	390.6	294.0	281.1	277.9
105°	454.5	455.5	395.3	284.9	262.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	369.5	374.2	374.6	357.7	335.7
115°	318.0	320.1	324.0	318.4	307.0
117.5°	262.6	266.0	268.7	266.0	264.3
120°	220.0	225.2	226.9	223.4	223.4
122.5°	185.2	189.5	192.1	189.5	190.4
125°	153.0	159.1	162.6	160.8	161.7
127.5°	127.8	133.0	139.1	138.2	138.2
130°	111.3	114.8	119.1	120.0	120.0
132.5°	99.1	101.7	105.2	106.1	106.9
135°	88.7	91.3	94.8	95.6	95.6
137.5°	81.7	83.5	86.1	86.9	87.8
140°	74.8	77.4	79.1	80.0	80.0
142.5°	69.6	71.3	73.0	73.9	74.8
145°	65.2	66.9	67.8	68.7	69.6
147.5°	60.9	62.6	64.3	64.3	65.2
150°	58.3	59.1	60.0	60.9	60.9
152.5°	54.8	55.6	56.5	57.4	57.4
155°	52.2	53.0	53.9	54.8	54.8
157.5°	49.6	51.3	51.3	52.2	52.2
160°	47.8	48.7	49.6	49.6	49.6
162.5°	46.1	47.0	47.0	47.8	47.8
165°	45.2	45.2	46.1	46.1	46.1
167.5°	43.5	43.5	44.3	44.3	44.3
170°	42.6	42.6	42.6	43.5	43.5
172.5°	41.7	41.7	41.7	41.7	41.7
175°	40.9	40.9	40.9	40.9	40.9
177.5°	40.0	40.9	40.9	40.9	40.9
180°	40.0	40.0	40.0	40.0	40.0



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	457.2	463.9	432.4	333.4	271.7
110°	419.9	429.1	413.0	373.3	321.8



(END OF REPORT)