

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: P828322

Luminaire Tested: **OHBL-18SE-NL-UNV-L940-CD-UPL18**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P828322  
REPORT IS A COMBINATION OF REPORTS P826165 AND G3-2310-221-8  
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-UPL18  
Description:  
Light Source: -  
Ballast/Driver: -

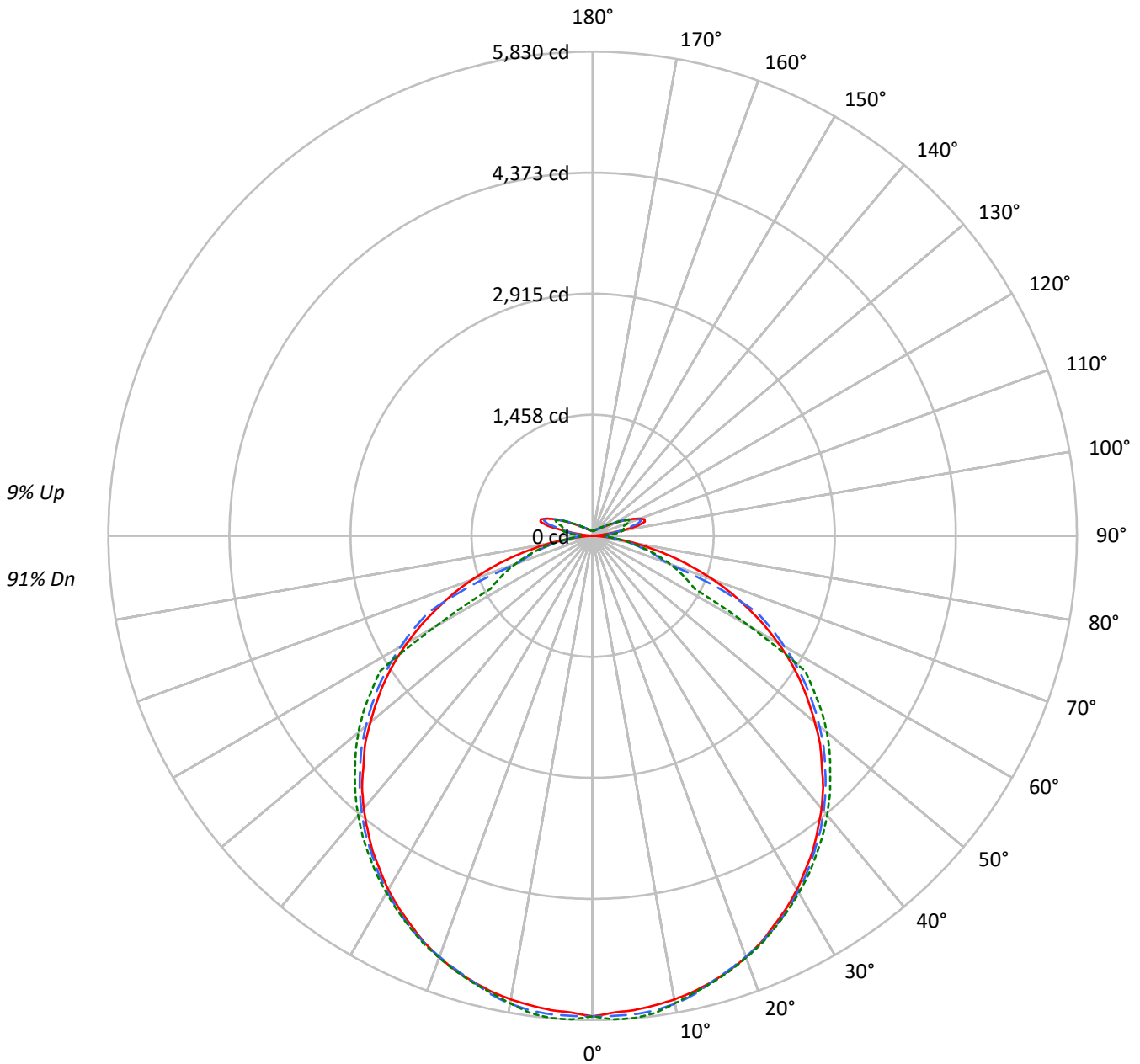
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17803.5 lumens  
Efficiency: N/A  
Efficacy: 151.8 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): 117.3  
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	100	100	100	94	94	94	91																			
1	107	103	99	95	104	99	96	93	94	91	88	88	86	84	83	81	80	77																			
2	98	90	83	78	94	87	81	76	82	77	73	78	74	70	73	70	67	65																			
3	89	79	71	65	86	77	70	64	72	66	61	69	63	59	65	61	57	55																			
4	82	70	61	55	79	68	60	54	64	58	52	61	55	51	58	53	49	47																			
5	75	63	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	50	43	39	47	42	38	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	42	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°	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	3.1
10°-20°	1574.2	8.8
20°-30°	2395.2	13.5
30°-40°	2912.2	16.4
40°-50°	3062.1	17.2
50°-60°	2796.0	15.7
60°-70°	1792.4	10.1
70°-80°	846.7	4.8
80°-90°	238.7	1.3
90°-100°	211.0	1.2
100°-110°	534.0	3.0
110°-120°	448.9	2.5
120°-130°	213.3	1.2
130°-140°	106.6	0.6
140°-150°	61.9	0.3
150°-160°	36.1	0.2
160°-170°	18.7	0.1
170°-180°	5.7	0.0
0°-30°	4519.1	25.4
0°-40°	7431.4	41.7
0°-60°	13289.5	74.6
0°-90°	16167.3	90.8
90°-120°	1194.0	6.7
90°-150°	1575.7	8.9
90°-180°	1636.0	9.2
0°-180°	17803.5	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°	4	79	123	150	152	8
95°	36	101	179	236	256	106
105°	649	649	560	400	369	616
115°	451	458	460	452	445	453
125°	217	228	234	233	231	204
135°	129	131	136	137	138	102
145°	94	96	98	99	99	59
155°	75	76	77	78	78	35
165°	64	65	65	66	66	18
175°	58	58	59	59	59	6
180°	58	58	58	58	58	



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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°	3.5	78.6	122.9	149.7	152.2
92.5°	11.3	73.3	129.1	167.6	175.6
95°	36.1	100.8	179.3	235.6	256.5
97.5°	171.5	206.5	254.7	316.2	332.2
100°	351.5	384.1	339.3	373.3	379.6
102.5°	551.9	560.2	413.9	388.9	384.8
105°	649.3	649.4	560.5	399.7	369.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	529.5	535.1	527.7	510.7	481.8
115°	451.1	458.4	460.5	452.3	445.2
117.5°	379.9	382.6	384.3	382.6	383.4
120°	317.3	323.4	326.9	324.3	322.6
122.5°	265.2	273.0	277.4	274.7	273.0
125°	217.4	227.8	233.9	233.0	231.3
127.5°	184.3	192.1	200.0	199.1	197.4
130°	160.0	166.1	171.3	172.2	173.0
132.5°	143.5	146.1	151.3	152.2	153.9
135°	128.7	131.3	135.6	137.4	138.2
137.5°	117.4	120.0	123.5	125.2	126.1
140°	107.8	110.4	113.0	114.8	115.6
142.5°	100.0	102.6	105.2	106.1	106.9
145°	93.9	95.6	98.2	99.1	99.1
147.5°	87.8	89.6	91.3	93.0	93.0
150°	82.6	84.3	86.1	86.9	87.8
152.5°	79.1	80.0	81.7	82.6	82.6
155°	74.8	76.5	77.4	78.2	78.2
157.5°	72.2	73.0	73.9	74.8	74.8
160°	69.6	69.6	70.4	71.3	71.3
162.5°	66.9	66.9	67.8	68.7	68.7
165°	64.3	65.2	65.2	66.1	66.1
167.5°	62.6	62.6	63.5	63.5	64.3
170°	60.9	60.9	61.7	61.7	61.7
172.5°	59.1	60.0	60.0	60.0	60.0
175°	58.3	58.3	59.1	59.1	59.1
177.5°	57.4	58.3	58.3	58.3	58.3
180°	58.3	58.3	58.3	58.3	58.3



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	655.4	660.4	614.1	475.2	393.4
110°	601.7	611.7	588.6	532.4	465.2



(END OF REPORT)