

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: P828323

Luminaire Tested: **OHBL-18SE-NL-UNV-L940-CD-UPL24**

Issue Date: 5/3/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P828323  
REPORT IS A COMBINATION OF REPORTS P826237 AND G3-2310-221-6  
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-UPL24  
Description:  
Light Source: -  
Ballast/Driver: -

**Summary**

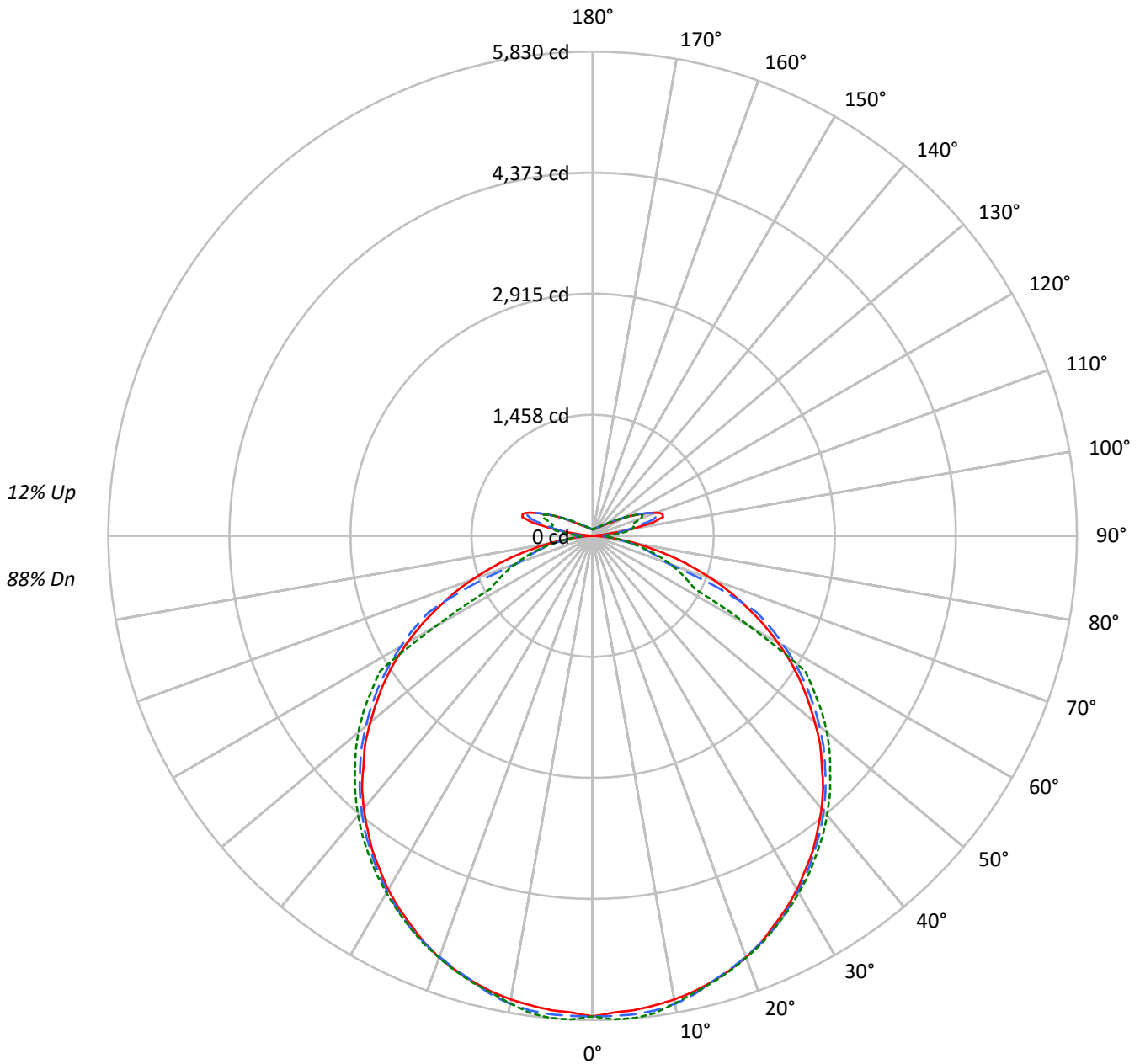
Lumens per Lamp: N/A  
Luminaire Lumens: 18351.6 lumens  
Efficiency: N/A  
Efficacy: 149.9 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.1')  
CIE Type: Semi-Direct

Input Watts (W): 122.4  
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	116	116	116	116	112	112	112	112	105	105	105	98	98	98	91	91	91	88																			
1	107	102	98	94	103	99	95	92	92	89	87	86	84	82	81	79	77	75																			
2	97	89	83	77	93	86	80	75	81	76	72	76	72	69	71	68	65	63																			
3	89	79	71	64	85	76	69	63	71	65	61	67	62	58	63	59	56	53																			
4	81	70	61	55	78	67	60	54	63	57	52	60	54	50	56	52	48	45																			
5	75	62	53	47	72	60	52	46	57	50	45	54	48	43	51	46	42	39																			
6	69	56	47	41	66	54	46	40	51	44	39	49	42	38	46	41	37	34																			
7	64	51	42	36	61	49	41	35	47	40	34	44	38	33	42	36	32	30																			
8	59	46	38	32	57	45	37	32	43	36	31	40	34	30	38	33	29	27																			
9	55	42	34	29	53	41	34	28	39	32	28	37	31	27	35	30	26	24																			
10	52	39	31	26	50	38	31	26	36	30	25	34	28	24	33	28	24	22																			

**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	3.0
10°-20°	1574.2	8.6
20°-30°	2395.2	13.1
30°-40°	2912.2	15.9
40°-50°	3062.1	16.7
50°-60°	2796.0	15.2
60°-70°	1792.4	9.8
70°-80°	846.7	4.6
80°-90°	240.1	1.3
90°-100°	263.8	1.4
100°-110°	716.8	3.9
110°-120°	605.0	3.3
120°-130°	288.0	1.6
130°-140°	144.1	0.8
140°-150°	83.5	0.5
150°-160°	48.7	0.3
160°-170°	25.2	0.1
170°-180°	7.7	0.0
0°-30°	4519.1	24.6
0°-40°	7431.4	40.5
0°-60°	13289.5	72.4
0°-90°	16168.7	88.1
90°-120°	1585.6	8.6
90°-150°	2101.3	11.5
90°-180°	2183.0	11.9
0°-180°	18351.6	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	86	134	164	169	9
95°	49	126	217	289	315	145
105°	877	874	750	539	495	833
115°	607	615	618	613	602	610
125°	294	310	316	315	312	276
135°	174	177	184	185	187	137
145°	126	130	132	133	134	80
155°	101	103	104	105	105	47
165°	87	88	89	89	89	25
175°	78	79	79	80	80	8
180°	78	78	78	78	78	



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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°	4.3	86.4	134.2	164.5	168.7
92.5°	14.8	83.7	143.9	190.2	202.6
95°	49.1	126.0	216.7	288.7	314.7
97.5°	235.9	274.3	319.9	400.6	431.3
100°	481.9	526.7	442.7	485.5	494.4
102.5°	746.7	751.5	556.5	514.1	508.3
105°	877.1	873.7	750.1	538.8	495.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	708.6	721.1	710.2	687.2	652.2
115°	606.7	614.9	617.8	613.1	601.7
117.5°	514.7	515.6	519.1	518.2	519.1
120°	426.0	435.6	443.4	439.1	433.9
122.5°	357.3	367.8	373.0	371.3	366.0
125°	293.9	309.5	315.6	314.7	312.1
127.5°	248.7	260.0	268.7	269.5	268.7
130°	216.5	223.4	232.1	233.0	233.9
132.5°	192.1	198.2	204.3	207.8	206.9
135°	173.9	177.4	183.5	185.2	186.9
137.5°	159.1	161.7	166.9	169.5	169.5
140°	146.1	149.5	153.9	155.6	156.5
142.5°	134.8	138.2	141.7	143.5	143.5
145°	126.1	129.5	132.2	133.0	133.9
147.5°	118.2	121.7	123.5	125.2	125.2
150°	112.2	113.9	116.5	117.4	118.2
152.5°	106.1	107.8	110.4	111.3	111.3
155°	100.9	102.6	104.3	105.2	105.2
157.5°	96.5	98.2	100.0	100.9	100.9
160°	93.0	93.9	95.6	96.5	96.5
162.5°	89.6	90.4	91.3	92.2	92.2
165°	86.9	87.8	88.7	88.7	88.7
167.5°	84.3	84.3	85.2	86.1	86.1
170°	81.7	82.6	82.6	83.5	83.5
172.5°	80.0	80.9	80.9	80.9	81.7
175°	78.2	79.1	79.1	80.0	80.0
177.5°	78.2	78.2	78.2	78.2	78.2
180°	78.2	78.2	78.2	78.2	78.2



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	880.6	889.1	825.4	643.0	530.8
110°	813.8	824.7	788.6	717.6	625.2



(END OF REPORT)