

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: P828315

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

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P828315  
REPORT IS A COMBINATION OF REPORTS P826067 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-MFL-UNV-L940-CD-UPL12  
Description:  
Light Source: -  
Ballast/Driver: -

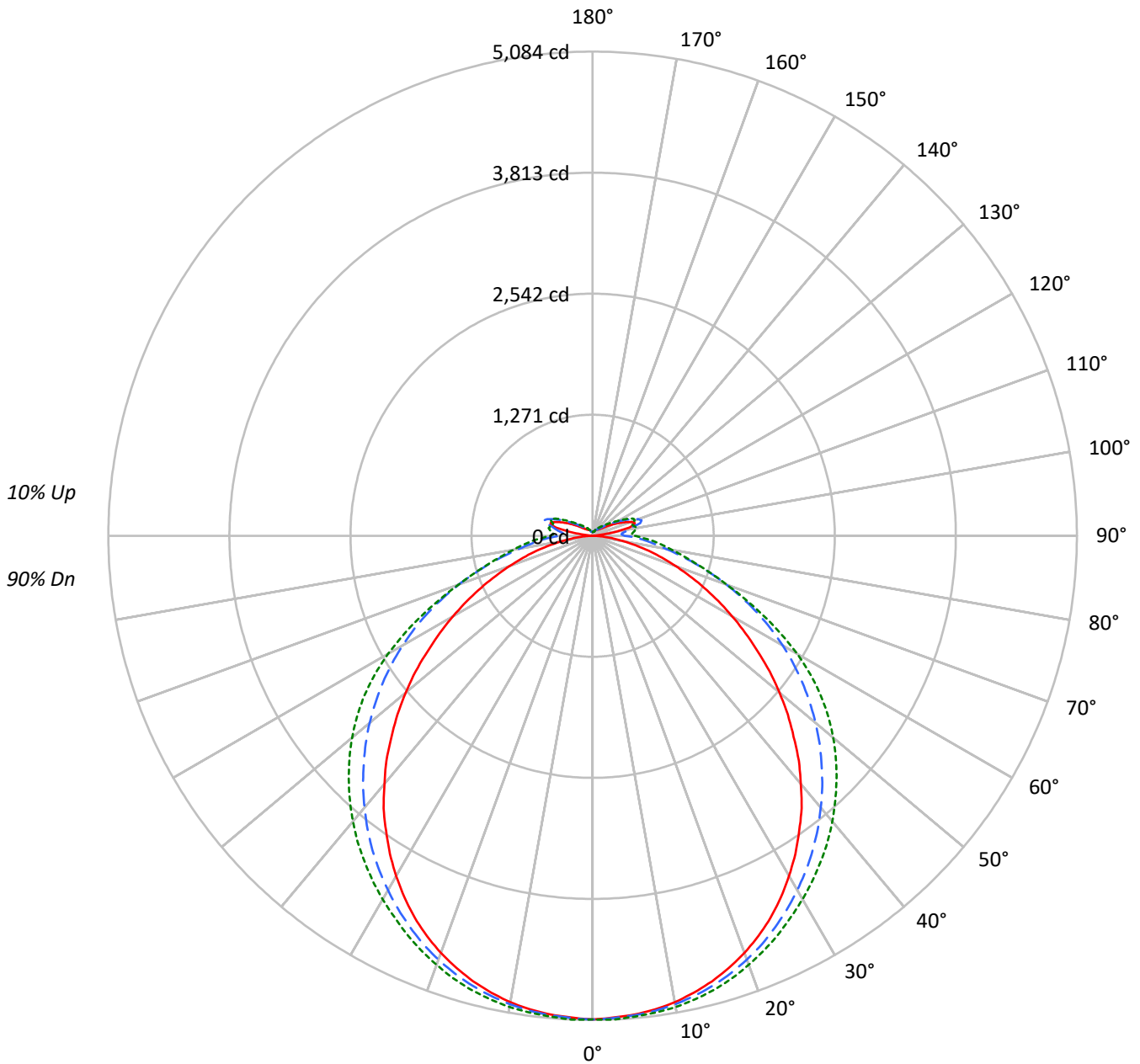
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16284.1 lumens  
Efficiency: N/A  
Efficacy: 143.6 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')  
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

TEST NUMBER: P828315

CATALOG NUMBER: OHBL-18SE-MFL-UNV-L940-CD-UPL12

### Luminous Intensity Polar Plot





TEST NUMBER: P828315

CATALOG NUMBER: OHBL-18SE-MFL-UNV-L940-CD-UPL12

**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	90																			
1	106	101	97	93	102	98	94	90	92	89	86	86	84	81	81	79	77	74																			
2	96	88	81	75	93	85	79	73	80	75	70	75	71	67	71	67	64	62																			
3	88	77	69	62	84	75	67	61	70	64	59	66	61	57	63	58	54	52																			
4	80	68	59	53	77	66	58	52	63	56	50	59	53	48	56	51	47	44																			
5	74	61	52	45	71	59	51	45	56	49	43	53	47	42	50	45	41	38																			
6	68	55	46	39	65	53	45	39	51	43	38	48	42	37	46	40	36	33																			
7	63	50	41	35	61	48	40	34	46	39	33	44	37	33	42	36	32	30																			
8	59	45	37	31	57	44	36	31	42	35	30	40	34	29	38	33	28	26																			
9	55	41	33	28	53	40	33	27	39	32	27	37	31	26	35	30	26	24																			
10	51	38	30	25	50	37	30	25	36	29	24	34	28	24	33	27	23	21																			

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

	0°	45°	90°
0°	8675	8675	8675
5°	8578	8589	8656
10°	8476	8510	8647
15°	8340	8415	8625
20°	8173	8301	8575
25°	7964	8158	8525
30°	7691	8004	8478
35°	7369	7841	8446
40°	6991	7652	8419
45°	6554	7447	8377
50°	6080	7240	8323
55°	5510	6986	8194
60°	4926	6688	7871
65°	4294	6308	7289
70°	3613	5825	6667
75°	2921	5266	6340
80°	2083	4851	6642
85°	1159	4996	8327



TEST NUMBER: P828315

CATALOG NUMBER: OHBL-18SE-MFL-UNV-L940-CD-UPL12

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	481.3	3.0
10°-20°	1380.7	8.5
20°-30°	2088.1	12.8
30°-40°	2506.8	15.4
40°-50°	2589.1	15.9
50°-60°	2329.4	14.3
60°-70°	1754.7	10.8
70°-80°	1059.6	6.5
80°-90°	520.9	3.2
90°-100°	321.6	2.0
100°-110°	484.4	3.0
110°-120°	382.2	2.3
120°-130°	189.5	1.2
130°-140°	95.9	0.6
140°-150°	53.7	0.3
150°-160°	29.1	0.2
160°-170°	13.1	0.1
170°-180°	4.0	0.0
0°-30°	3950.2	24.3
0°-40°	6457.0	39.7
0°-60°	11375.5	69.9
0°-90°	14710.8	90.3
90°-120°	1188.2	7.3
90°-150°	1527.2	9.4
90°-180°	1573.0	9.7
0°-180°	16284.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5079	5079	5079	5079	5079	
5°	5047	5061	5054	5074	5068	479
15°	4843	4867	4889	4930	4935	1365
25°	4423	4471	4535	4606	4617	2034
35°	3782	3870	4029	4151	4176	2364
45°	2985	3135	3397	3582	3621	2304
55°	2114	2333	2688	2890	2925	1896
65°	1290	1554	1902	1996	1974	1282
75°	608	873	1101	1130	1119	648
85°	127	334	552	628	639	147
90°	3	146	337	425	444	10
95°	28	139	311	402	428	77
105°	458	495	516	448	433	434
115°	323	342	398	424	424	323
125°	163	173	214	234	239	152
135°	97	102	121	140	145	77
145°	78	78	80	91	96	49
155°	65	67	66	66	67	28
165°	45	45	46	46	46	13
175°	41	41	41	41	41	4
180°	40	40	40	40	40	



TEST NUMBER: P828315

CATALOG NUMBER: OHBL-18SE-MFL-UNV-L940-CD-UPL12

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5079.3	5079.3	5079.3	5079.3	5079.3
2.5°	5064.3	5076.8	5069.3	5085.5	5084.3
5°	5047.0	5060.6	5054.4	5074.3	5068.1
7.5°	5017.1	5032.0	5030.8	5053.1	5050.7
10°	4973.6	4989.7	4994.7	5024.6	5024.6
12.5°	4913.9	4935.1	4947.5	4983.6	4984.8
15°	4843.1	4866.7	4889.1	4930.1	4935.1
17.5°	4757.3	4787.2	4818.2	4865.4	4871.7
20°	4660.3	4693.9	4736.1	4785.9	4793.3
22.5°	4548.5	4588.2	4642.9	4701.3	4710.0
25°	4423.0	4471.4	4534.8	4605.6	4616.8
27.5°	4279.9	4335.9	4421.6	4501.2	4511.2
30°	4124.6	4190.5	4297.3	4391.8	4408.0
32.5°	3960.5	4036.3	4168.1	4273.8	4296.1
35°	3781.5	3869.7	4028.8	4150.6	4175.5
37.5°	3605.0	3701.9	3882.2	4021.4	4051.3
40°	3398.6	3519.2	3725.6	3879.7	3915.7
42.5°	3204.7	3335.2	3568.9	3736.7	3771.6
45°	2984.6	3135.0	3397.4	3582.5	3621.1
47.5°	2778.3	2941.2	3232.1	3423.4	3463.3
50°	2560.8	2739.8	3055.5	3255.6	3296.7
52.5°	2343.2	2535.9	2872.8	3080.4	3118.9
55°	2114.5	2333.2	2687.5	2890.2	2925.0
57.5°	1901.9	2133.2	2497.4	2690.1	2711.2
60°	1691.9	1931.7	2303.4	2472.5	2480.0
62.5°	1486.8	1739.1	2104.6	2238.8	2228.8
65°	1290.3	1553.9	1901.9	1996.4	1974.0
67.5°	1101.4	1373.6	1694.3	1755.2	1725.4
70°	922.4	1198.4	1492.9	1524.0	1496.7
72.5°	764.5	1031.8	1289.1	1315.2	1295.3
75°	607.8	872.7	1101.4	1129.9	1118.8
77.5°	461.2	718.5	928.6	965.9	968.4
80°	331.9	578.0	778.2	836.6	844.1
82.5°	218.8	448.7	652.6	727.2	738.4
85°	126.8	334.4	551.9	627.7	639.0
87.5°	54.7	241.2	443.8	512.2	525.8
90°	2.6	146.2	336.6	424.7	444.4
92.5°	11.6	128.2	304.0	392.6	410.6
95°	27.9	138.7	311.0	401.7	428.5
97.5°	124.9	202.4	349.4	432.7	452.5
100°	247.4	322.8	392.6	454.3	468.5
102.5°	389.2	433.7	430.1	450.0	454.4
105°	458.2	495.2	515.8	447.7	433.4



TEST NUMBER: P828315

CATALOG NUMBER: OHBL-18SE-MFL-UNV-L940-CD-UPL12

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	373.3	399.6	457.9	476.3	466.5
115°	322.9	341.6	398.4	424.4	424.1
117.5°	273.8	290.9	343.3	367.9	369.9
120°	231.2	246.3	292.8	314.2	319.2
122.5°	196.4	206.9	250.6	271.6	276.2
125°	162.9	172.8	213.5	234.2	238.7
127.5°	136.5	144.2	182.6	204.1	207.9
130°	120.0	124.7	156.4	178.4	182.1
132.5°	107.8	112.9	136.2	157.0	162.8
135°	97.4	102.5	120.9	140.4	145.4
137.5°	90.4	94.7	107.2	125.5	131.3
140°	84.7	88.6	96.5	112.3	117.3
142.5°	80.8	82.5	86.7	101.3	105.8
145°	77.6	78.2	80.2	91.0	95.6
147.5°	73.3	75.0	76.8	81.7	86.3
150°	70.7	72.8	72.4	74.5	78.2
152.5°	67.2	69.3	68.9	68.6	71.0
155°	64.6	66.7	66.3	66.0	67.2
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°	460.8	498.6	538.8	483.4	434.0
110°	422.6	459.8	507.8	506.9	468.7



(END OF REPORT)