

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: P828258

Luminaire Tested: **OHBL-12SE-MCL-UNV-L940-CD-UPL18**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P828258  
REPORT IS A COMBINATION OF REPORTS P826150 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-12SE-MCL-UNV-L940-CD-UPL18  
Description:  
Light Source: -  
Ballast/Driver: -

**Summary**

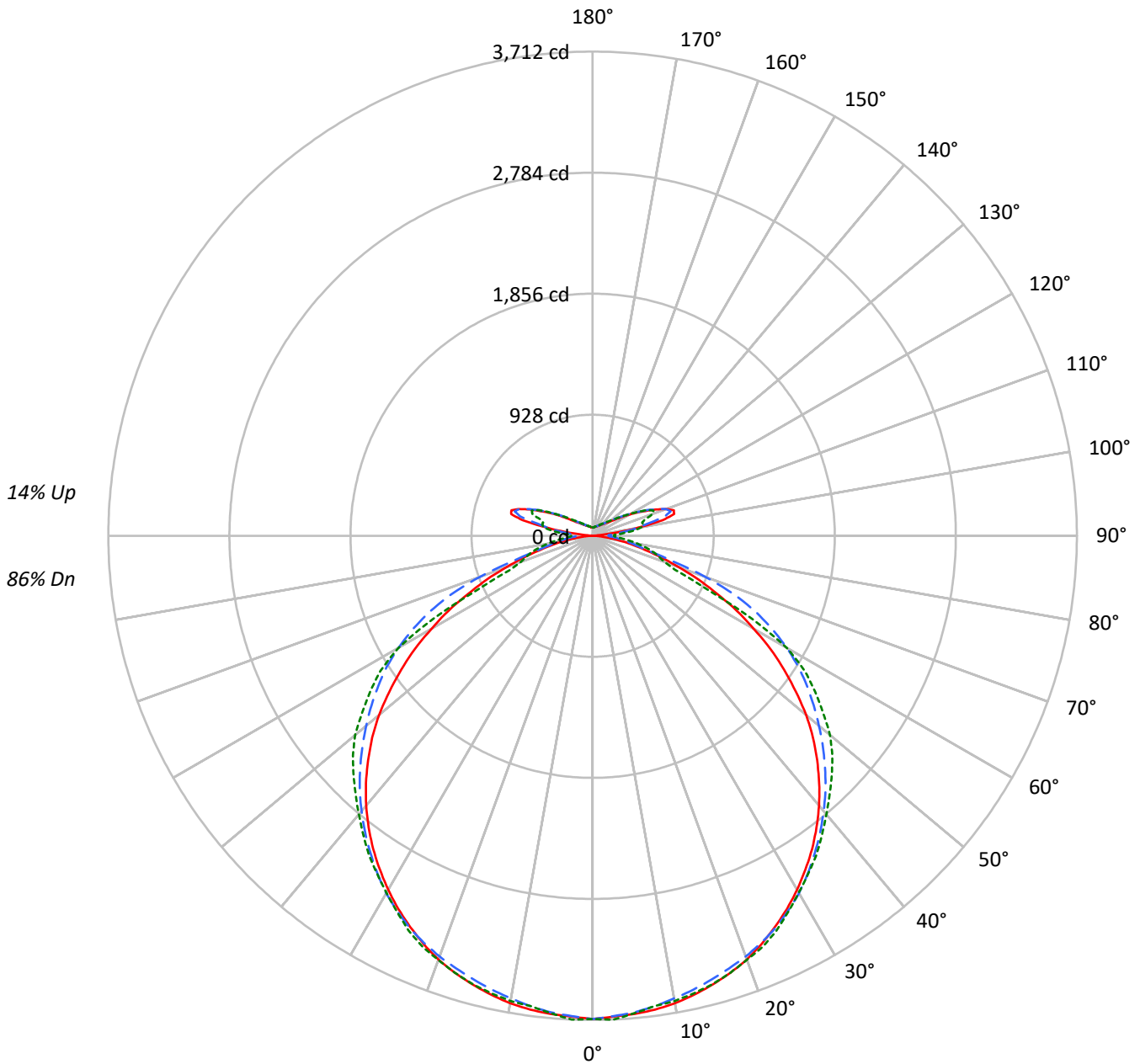
Lumens per Lamp: N/A  
Luminaire Lumens: 12027.8 lumens  
Efficiency: N/A  
Efficacy: 146.1 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 0.88' x H: 0.17')  
CIE Type: Semi-Direct

Input Watts (W): 82.3  
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

TEST NUMBER: P828258

CATALOG NUMBER: OHBL-12SE-MCL-UNV-L940-CD-UPL18

### Luminous Intensity Polar Plot





TEST NUMBER: P828258

CATALOG NUMBER: OHBL-12SE-MCL-UNV-L940-CD-UPL18

**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	111	111	111	111	103	103	103	96	96	96	89	89	89	86																			
1	106	101	97	94	102	98	94	91	91	88	85	85	83	80	79	77	76	73																			
2	97	89	82	77	93	86	80	75	80	75	71	75	71	67	70	67	64	61																			
3	88	78	70	64	84	75	68	62	70	64	60	66	61	57	62	58	54	52																			
4	81	69	61	54	77	67	59	53	63	56	51	59	53	49	55	50	47	44																			
5	74	62	53	47	71	60	52	46	56	49	44	53	47	42	49	45	41	38																			
6	68	55	47	40	66	54	46	40	51	44	38	48	42	37	45	40	36	33																			
7	63	50	42	36	61	49	41	35	46	39	34	43	37	33	41	36	32	29																			
8	59	46	37	32	57	44	37	31	42	35	30	40	34	29	37	32	28	26																			
9	55	42	34	28	53	41	33	28	39	32	27	36	31	26	35	29	25	24																			
10	51	38	31	26	49	37	30	25	36	29	25	34	28	24	32	27	23	21																			

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

	0°	45°	90°
0°	12053	12053	12053
5°	11823	11807	11954
10°	11632	11559	11871
15°	11412	11358	11842
20°	11192	11206	11790
25°	10907	11052	11741
30°	10608	10848	11577
35°	10275	10566	11516
40°	9886	10273	11417
45°	9405	9942	11421
50°	8812	9571	11421
55°	7985	9195	11103
60°	6974	8683	10388
65°	5744	7836	6687
70°	4381	5971	4954
75°	3038	3427	5193
80°	1867	2704	5235
85°	836	2258	5505



TEST NUMBER: P828258

CATALOG NUMBER: OHBL-12SE-MCL-UNV-L940-CD-UPL18

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	349.3	2.9
10°-20°	1001.7	8.3
20°-30°	1530.0	12.7
30°-40°	1856.4	15.4
40°-50°	1945.6	16.2
50°-60°	1763.0	14.7
60°-70°	1182.0	9.8
70°-80°	530.8	4.4
80°-90°	196.5	1.6
90°-100°	206.9	1.7
100°-110°	544.4	4.5
110°-120°	457.9	3.8
120°-130°	220.9	1.8
130°-140°	111.8	0.9
140°-150°	65.4	0.5
150°-160°	38.7	0.3
160°-170°	20.4	0.2
170°-180°	6.2	0.1
0°-30°	2881.0	24.0
0°-40°	4737.4	39.4
0°-60°	8446.0	70.2
0°-90°	10355.4	86.1
90°-120°	1209.1	10.1
90°-150°	1607.1	13.4
90°-180°	1672.0	13.9
0°-180°	12027.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3705	3705	3705	3705	3705	
5°	3681	3694	3668	3679	3674	350
15°	3561	3547	3522	3553	3558	1006
25°	3308	3294	3317	3348	3338	1525
35°	2932	2939	2969	3001	2989	1833
45°	2434	2473	2519	2584	2592	1875
55°	1791	1877	2005	2085	2081	1599
65°	1051	1216	1380	1165	951	1047
75°	414	600	441	452	481	452
85°	71	137	175	212	222	87
90°	4	67	120	153	162	7
95°	34	100	174	221	244	105
105°	646	650	575	420	392	614
115°	450	458	466	465	465	454
125°	221	232	244	244	243	208
135°	134	137	142	146	147	106
145°	99	101	104	105	106	63
155°	80	82	83	84	84	38
165°	70	71	71	72	72	20
175°	64	64	64	64	64	6
180°	64	64	64	64	64	



TEST NUMBER: P828258

CATALOG NUMBER: OHBL-12SE-MCL-UNV-L940-CD-UPL18

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3704.9	3704.9	3704.9	3704.9	3704.9
2.5°	3689.8	3705.4	3686.1	3707.0	3712.4
5°	3680.8	3693.6	3667.9	3679.1	3674.4
7.5°	3664.2	3668.4	3637.9	3647.0	3637.3
10°	3639.5	3637.3	3601.5	3619.1	3621.3
12.5°	3603.1	3596.6	3564.5	3591.3	3591.8
15°	3561.3	3547.3	3522.2	3553.2	3557.5
17.5°	3513.1	3494.9	3478.3	3518.5	3512.0
20°	3456.8	3435.4	3432.2	3476.1	3460.0
22.5°	3387.2	3370.6	3378.1	3419.9	3409.7
25°	3308.4	3294.0	3317.0	3347.5	3337.9
27.5°	3225.4	3216.9	3243.1	3266.7	3247.9
30°	3134.3	3129.6	3164.3	3183.6	3160.1
32.5°	3035.2	3036.9	3070.1	3096.4	3074.4
35°	2932.4	2939.3	2969.3	3001.0	2989.2
37.5°	2819.3	2834.9	2864.9	2900.8	2888.5
40°	2699.9	2722.4	2755.6	2799.0	2787.8
42.5°	2570.8	2599.2	2642.1	2690.2	2689.2
45°	2433.7	2473.3	2519.4	2583.6	2591.7
47.5°	2291.2	2335.6	2394.0	2479.7	2492.1
50°	2136.3	2192.0	2264.9	2367.8	2375.2
52.5°	1963.8	2039.9	2136.3	2234.9	2225.8
55°	1790.8	1877.0	2005.1	2085.4	2080.7
57.5°	1618.3	1715.3	1870.6	1928.0	1927.4
60°	1425.5	1548.1	1717.9	1761.3	1718.5
62.5°	1247.1	1378.9	1555.1	1523.5	1376.8
65°	1051.1	1215.5	1380.0	1164.6	950.8
67.5°	876.9	1048.4	1172.1	797.6	683.0
70°	701.7	890.8	913.9	591.9	583.9
72.5°	546.4	747.8	630.5	506.8	532.4
75°	413.6	600.0	441.4	451.6	481.1
77.5°	301.6	460.7	343.3	395.9	419.9
80°	207.3	326.2	280.1	332.6	349.3
82.5°	130.2	215.4	224.5	267.9	285.0
85°	71.2	136.6	175.2	211.6	221.8
87.5°	29.5	82.5	133.9	163.4	172.0
90°	4.0	67.3	120.1	152.7	162.4
92.5°	11.8	63.5	121.7	157.7	168.4
95°	33.6	99.7	174.3	220.8	243.7
97.5°	170.6	207.7	258.9	307.9	324.0
100°	351.1	385.7	351.2	375.1	381.9
102.5°	549.1	561.1	431.2	400.4	396.8
105°	646.4	650.5	574.8	420.4	392.5



TEST NUMBER: P828258

CATALOG NUMBER: OHBL-12SE-MCL-UNV-L940-CD-UPL18

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	527.1	534.4	534.6	525.6	504.9
115°	450.3	457.7	465.9	465.0	465.2
117.5°	384.2	387.9	397.7	399.2	401.1
120°	321.6	328.2	338.7	338.7	337.6
122.5°	269.4	277.3	287.5	287.6	286.4
125°	221.1	232.1	243.5	244.2	243.1
127.5°	188.6	196.4	208.6	209.3	208.1
130°	164.2	170.8	178.8	181.8	182.7
132.5°	148.2	151.5	158.2	161.3	163.0
135°	133.5	136.7	141.5	146.0	147.4
137.5°	122.8	125.4	128.9	133.2	134.7
140°	113.2	115.8	117.8	121.7	123.1
142.5°	104.8	108.0	110.0	112.5	113.9
145°	98.7	101.0	103.6	105.0	105.6
147.5°	93.2	94.9	96.7	98.4	98.9
150°	88.0	89.7	91.5	92.3	93.2
152.5°	84.5	85.4	87.1	88.0	88.0
155°	80.2	82.4	83.3	84.2	83.6
157.5°	77.6	78.9	79.8	80.7	80.7
160°	74.9	75.5	76.3	77.2	77.2
162.5°	72.9	72.9	73.7	74.6	74.6
165°	70.3	71.1	71.1	72.0	72.0
167.5°	68.5	69.0	69.4	69.4	70.3
170°	66.8	66.8	67.6	67.1	67.1
172.5°	65.0	65.9	65.9	65.4	65.4
175°	64.2	64.2	64.5	63.9	63.9
177.5°	63.8	64.2	63.6	63.0	62.5
180°	63.6	63.6	63.6	63.6	63.6



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	653.0	660.5	626.2	497.7	423.1
110°	598.8	611.1	598.4	551.1	492.1



(END OF REPORT)