

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: P828358

Luminaire Tested: **OHBL-24SE-NL-UNV-L940-CD-UPL24**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P828358  
REPORT IS A COMBINATION OF REPORTS P826249 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-24SE-NL-UNV-L940-CD-UPL24  
Description:  
Light Source: -  
Ballast/Driver: -

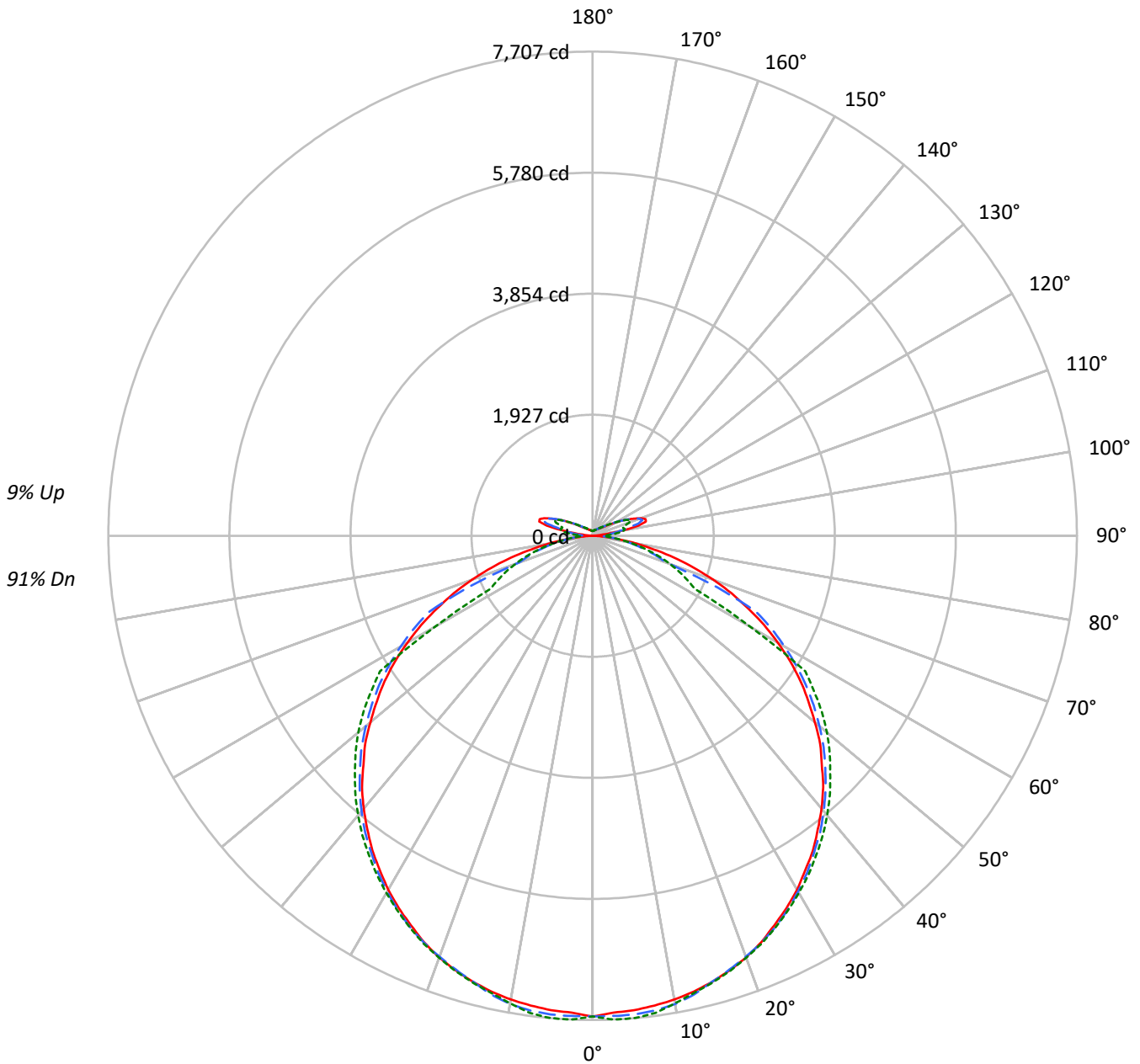
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23585.7 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): 155.4  
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

TEST NUMBER: P828358

CATALOG NUMBER: OHBL-24SE-NL-UNV-L940-CD-UPL24

### Luminous Intensity Polar Plot





TEST NUMBER: P828358

CATALOG NUMBER: OHBL-24SE-NL-UNV-L940-CD-UPL24

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					20					
RC	80					70					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	93	93	93	91					
1	107	103	99	95	103	99	96	92	93	91	88	88	86	84	83	81	79	79	79	79	77					
2	98	90	83	78	94	87	81	76	82	77	73	77	73	70	73	70	67	67	67	67	64					
3	89	79	71	65	86	77	69	64	72	66	61	68	63	59	65	61	57	57	57	57	54					
4	82	70	61	55	79	68	60	54	64	58	52	61	55	51	58	53	49	49	49	49	47					
5	75	62	54	47	72	61	53	47	58	51	45	55	49	44	52	47	43	43	43	43	40					
6	69	56	47	41	67	55	47	41	52	45	40	49	43	38	47	42	37	37	37	37	35					
7	64	51	42	36	62	50	42	36	47	40	35	45	39	34	43	37	33	33	33	33	31					
8	60	46	38	32	58	45	37	32	43	36	31	41	35	30	39	34	30	30	30	30	28					
9	56	42	34	29	54	41	34	29	40	33	28	38	32	27	36	31	27	27	27	27	25					
10	52	39	31	26	50	38	31	26	37	30	25	35	29	25	34	28	24	24	24	24	23					

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

	0°	45°	90°
0°	13068	13068	13068
5°	12928	13044	13182
10°	12863	12983	13046
15°	12792	12786	12932
20°	12702	12678	12868
25°	12540	12597	12809
30°	12401	12457	12753
35°	12234	12292	12703
40°	12032	12135	12665
45°	11751	11915	12586
50°	11449	11668	12536
55°	11084	11354	12324
60°	10536	10890	9520
65°	9749	10294	6341
70°	8737	5292	6063
75°	7253	4783	5653
80°	5094	4001	4949
85°	2044	3206	4283



TEST NUMBER: P828358

CATALOG NUMBER: OHBL-24SE-NL-UNV-L940-CD-UPL24

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	726.9	3.1
10°-20°	2081.3	8.8
20°-30°	3166.8	13.4
30°-40°	3850.4	16.3
40°-50°	4048.5	17.2
50°-60°	3696.8	15.7
60°-70°	2369.8	10.0
70°-80°	1119.5	4.7
80°-90°	315.8	1.3
90°-100°	283.8	1.2
100°-110°	722.3	3.1
110°-120°	606.6	2.6
120°-130°	288.0	1.2
130°-140°	144.1	0.6
140°-150°	83.5	0.4
150°-160°	48.7	0.2
160°-170°	25.2	0.1
170°-180°	7.7	0.0
0°-30°	5975.0	25.3
0°-40°	9825.4	41.7
0°-60°	17570.7	74.5
0°-90°	21375.8	90.6
90°-120°	1612.7	6.8
90°-150°	2128.3	9.0
90°-180°	2210.0	9.4
0°-180°	23585.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7651	7651	7651	7651	7651	
5°	7580	7610	7648	7690	7706	721
15°	7350	7405	7349	7360	7365	2075
25°	6840	6851	6875	6886	6880	3156
35°	6114	6078	6147	6223	6205	3821
45°	5157	5147	5234	5358	5349	3986
55°	4041	4010	4146	4284	4295	3604
65°	2723	2723	2881	1653	1658	2699
75°	1345	1371	890	937	941	1418
85°	176	223	278	301	285	260
90°	4	105	164	200	204	11
95°	50	136	238	318	344	145
105°	879	877	755	544	500	834
115°	608	617	621	615	602	612
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	



TEST NUMBER: P828358

CATALOG NUMBER: OHBL-24SE-NL-UNV-L940-CD-UPL24

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	7651.1	7651.1	7651.1	7651.1	7651.1
2.5°	7597.4	7622.9	7651.1	7687.4	7707.4
5°	7579.9	7609.5	7648.4	7690.1	7706.1
7.5°	7542.3	7583.9	7621.6	7651.1	7660.5
10°	7495.3	7545.0	7566.5	7563.8	7557.1
12.5°	7432.2	7484.7	7478.0	7447.0	7452.4
15°	7350.4	7405.3	7349.1	7359.8	7365.2
17.5°	7253.7	7307.4	7241.6	7263.1	7264.5
20°	7141.0	7181.2	7130.1	7147.6	7147.6
22.5°	7005.4	7033.5	7012.1	7024.2	7026.8
25°	6840.2	6850.9	6875.0	6885.8	6880.4
27.5°	6681.9	6668.4	6715.4	6740.9	6727.3
30°	6505.9	6484.4	6539.4	6581.1	6565.0
32.5°	6304.5	6291.1	6354.2	6403.9	6394.5
35°	6113.9	6077.7	6147.4	6222.6	6205.1
37.5°	5888.3	5866.8	5946.0	6025.3	6015.9
40°	5668.2	5631.9	5721.9	5815.8	5806.4
42.5°	5431.9	5388.8	5486.9	5599.7	5589.0
45°	5156.6	5147.2	5234.5	5358.0	5348.6
47.5°	4912.4	4865.3	4987.5	5107.0	5117.8
50°	4616.9	4599.5	4711.0	4856.0	4866.6
52.5°	4328.4	4316.3	4432.9	4579.4	4598.1
55°	4041.0	4010.1	4145.7	4284.0	4294.8
57.5°	3733.7	3701.4	3839.7	3990.1	4012.8
60°	3404.7	3373.8	3525.4	3665.1	2914.6
62.5°	3075.7	3054.3	3212.8	2275.6	1834.0
65°	2722.7	2722.7	2881.0	1652.6	1658.0
67.5°	2392.5	2371.0	2148.1	1484.8	1484.8
70°	2038.0	2046.1	1237.7	1300.9	1302.3
72.5°	1682.2	1711.8	1068.7	1119.6	1122.3
75°	1345.2	1370.8	890.1	937.1	941.1
77.5°	988.1	759.9	715.6	751.9	753.2
80°	694.1	479.3	547.8	582.6	578.6
82.5°	405.3	335.6	401.4	427.0	425.6
85°	175.8	222.8	277.9	300.7	284.6
87.5°	56.3	138.3	173.1	186.7	185.2
90°	4.3	104.8	164.4	200.1	203.7
92.5°	14.8	98.1	170.1	223.0	235.6
95°	50.1	135.5	238.2	317.8	343.9
97.5°	236.6	281.2	335.3	423.5	454.9
100°	482.6	532.3	452.9	501.8	511.1
102.5°	748.3	756.1	562.8	524.6	519.1
105°	878.7	877.3	755.3	544.0	500.1



TEST NUMBER: P828358

CATALOG NUMBER: OHBL-24SE-NL-UNV-L940-CD-UPL24

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	710.6	723.7	713.8	689.8	652.5
115°	608.4	617.1	621.1	615.4	602.1
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°	882.2	892.4	830.0	645.9	531.8
110°	815.8	827.6	792.5	720.2	625.6



(END OF REPORT)