

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: P828359

Luminaire Tested: **OHBL-24SE-NL-UNV-L940-CD-UPL36**

Issue Date: 5/3/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P828359  
REPORT IS A COMBINATION OF REPORTS P826309 AND G3-2310-221-2  
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-UPL36  
Description:  
Light Source: -  
Ballast/Driver: -

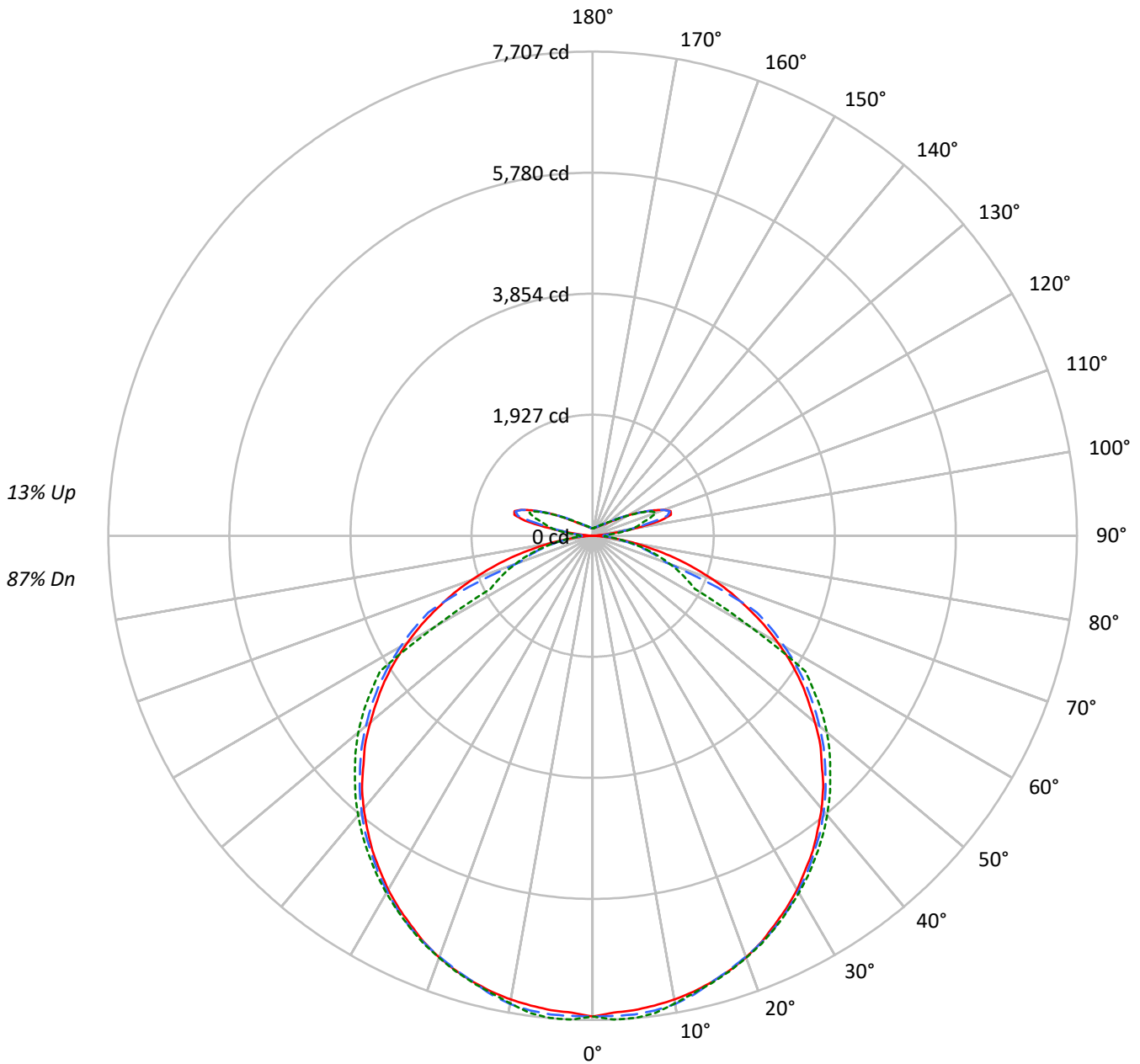
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24595.8 lumens  
Efficiency: N/A  
Efficacy: 147.5 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): 166.8  
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	104	104	104	97	97	97	90	90	90	87																			
1	106	102	98	94	102	98	95	91	92	89	86	86	83	81	80	78	77	74																			
2	97	89	83	77	93	86	80	75	80	76	71	75	71	68	70	67	65	62																			
3	88	78	71	64	85	76	69	63	71	65	60	67	62	57	62	58	55	52																			
4	81	69	61	54	78	67	59	53	63	56	51	59	54	49	56	51	47	45																			
5	74	62	53	47	71	60	52	46	56	50	44	53	47	43	50	45	41	39																			
6	69	56	47	41	66	54	46	40	51	44	39	48	42	37	45	40	36	34																			
7	64	50	42	36	61	49	41	35	46	39	34	44	38	33	41	36	32	30																			
8	59	46	38	32	57	45	37	31	42	35	30	40	34	30	38	33	29	27																			
9	55	42	34	29	53	41	33	28	39	32	27	37	31	27	35	30	26	24																			
10	52	39	31	26	50	38	30	25	36	29	25	34	28	24	32	27	23	22																			

**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



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	726.9	3.0
10°-20°	2081.3	8.5
20°-30°	3166.8	12.9
30°-40°	3850.4	15.7
40°-50°	4048.5	16.5
50°-60°	3696.8	15.0
60°-70°	2369.8	9.6
70°-80°	1119.5	4.6
80°-90°	317.1	1.3
90°-100°	321.4	1.3
100°-110°	1105.9	4.5
110°-120°	902.9	3.7
120°-130°	424.4	1.7
130°-140°	214.9	0.9
140°-150°	125.6	0.5
150°-160°	73.7	0.3
160°-170°	38.3	0.2
170°-180°	11.7	0.0
0°-30°	5975.0	24.3
0°-40°	9825.4	39.9
0°-60°	17570.7	71.4
0°-90°	21377.1	86.9
90°-120°	2330.2	9.5
90°-150°	3095.0	12.6
90°-180°	3219.0	13.1
0°-180°	24595.8	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°	7	118	178	209	207	13
95°	58	147	232	302	316	203
105°	1291	1296	1226	918	830	1227
115°	902	893	904	906	889	910
125°	441	456	467	459	450	415
135°	261	267	274	276	277	206
145°	190	194	198	201	202	121
155°	153	156	158	160	160	72
165°	131	133	134	135	136	38
175°	120	120	121	121	122	12
180°	118	118	118	118	118	



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**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°	7.0	117.8	178.3	208.8	207.2
92.5°	21.7	111.1	174.4	217.8	224.3
95°	57.9	146.8	232.1	302.1	316.0
97.5°	327.9	377.7	366.6	456.5	480.1
100°	700.9	739.2	597.2	627.0	645.8
102.5°	1100.5	1127.3	901.9	768.1	743.4
105°	1290.9	1296.3	1226.5	917.9	829.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1060.1	1065.4	1059.9	1052.4	1015.1
115°	902.2	892.7	903.7	905.8	889.0
117.5°	766.0	757.3	764.2	760.8	751.2
120°	644.3	644.3	653.0	640.8	633.8
122.5°	533.8	546.0	552.1	543.4	532.1
125°	440.8	456.5	466.9	459.1	450.4
127.5°	378.2	383.4	395.6	391.2	391.2
130°	325.2	332.1	341.7	343.4	341.7
132.5°	288.7	295.6	304.3	306.9	309.5
135°	260.8	266.9	273.9	276.5	277.4
137.5°	238.2	243.4	248.7	253.0	253.9
140°	219.1	224.3	229.5	233.0	233.0
142.5°	203.5	208.7	213.0	215.6	215.6
145°	189.5	193.9	198.2	200.8	201.7
147.5°	179.1	182.6	186.9	187.8	188.7
150°	169.5	172.2	175.6	177.4	178.2
152.5°	160.8	163.5	166.9	167.8	168.7
155°	153.0	155.6	158.2	160.0	160.0
157.5°	146.1	148.7	151.3	152.2	152.2
160°	140.8	142.6	145.2	145.2	146.1
162.5°	135.6	137.4	139.1	140.0	140.8
165°	131.3	133.0	133.9	134.8	135.6
167.5°	127.8	128.7	129.5	130.4	130.4
170°	124.3	125.2	126.1	126.1	126.9
172.5°	121.7	122.6	123.5	123.5	123.5
175°	120.0	120.0	120.9	120.9	121.7
177.5°	118.2	119.1	119.1	119.1	120.0
180°	118.2	118.2	118.2	118.2	118.2



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	1303.0	1312.3	1286.4	1128.5	969.1
110°	1204.4	1219.7	1203.7	1148.9	1070.7



(END OF REPORT)