

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: P828281

Luminaire Tested: **OHBL-15SE-MCL-UNV-L940-CD-UPL15**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P828281  
REPORT IS A COMBINATION OF REPORTS P826114 AND G3-2310-221-10  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-15SE-MCL-UNV-L940-CD-UPL15  
Description:  
Light Source: -  
Ballast/Driver: -

**Summary**

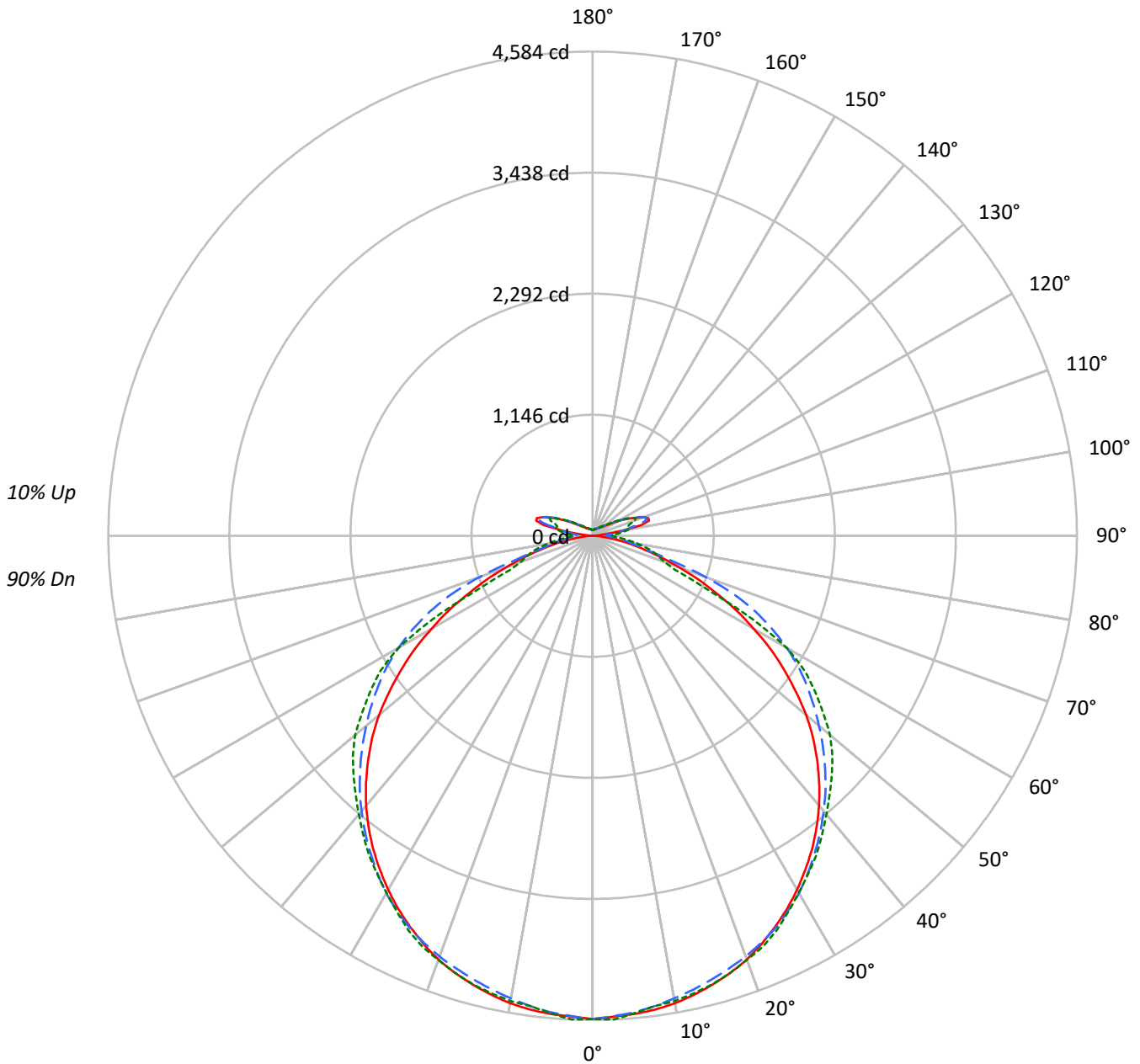
Lumens per Lamp: N/A  
Luminaire Lumens: 14252.1 lumens  
Efficiency: N/A  
Efficacy: 146.5 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 0.88' x H: 0.17')  
CIE Type: Semi-Direct

Input Watts (W): 97.3  
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

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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	117	117	117	117	113	113	113	113	105	105	105	99	99	99	93	93	93	90																			
1	107	102	98	94	103	99	95	92	93	90	87	87	85	83	82	80	78	76																			
2	97	89	83	77	94	87	81	76	81	77	72	77	73	69	72	69	66	63																			
3	89	79	71	64	85	76	69	63	72	66	61	68	63	58	64	60	56	54																			
4	81	70	61	55	78	68	60	54	64	57	52	60	55	50	57	52	48	46																			
5	75	62	53	47	72	60	52	46	57	50	45	54	48	43	51	46	42	40																			
6	69	56	47	41	66	54	46	40	52	44	39	49	43	38	46	41	37	35																			
7	64	51	42	36	62	49	41	36	47	40	35	45	38	34	42	37	33	31																			
8	59	46	38	32	57	45	37	32	43	36	31	41	35	30	39	33	29	27																			
9	55	42	34	29	53	41	34	28	39	33	28	38	31	27	36	30	26	24																			
10	52	39	31	26	50	38	31	26	36	30	25	35	29	25	33	28	24	22																			

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

	0°	45°	90°
0°	14884	14884	14884
5°	14600	14581	14761
10°	14365	14274	14659
15°	14093	14026	14624
20°	13821	13838	14559
25°	13469	13648	14498
30°	13099	13396	14296
35°	12689	13047	14221
40°	12208	12686	14099
45°	11614	12277	14103
50°	10882	11819	14105
55°	9860	11354	13710
60°	8612	10723	12828
65°	7093	9676	8258
70°	5411	7374	6117
75°	3752	4232	6412
80°	2306	3340	6464
85°	1034	2788	6798



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	431.4	3.0
10°-20°	1237.0	8.7
20°-30°	1889.3	13.3
30°-40°	2292.4	16.1
40°-50°	2402.6	16.9
50°-60°	2177.1	15.3
60°-70°	1459.7	10.2
70°-80°	655.5	4.6
80°-90°	241.2	1.7
90°-100°	198.2	1.4
100°-110°	472.5	3.3
110°-120°	393.9	2.8
120°-130°	190.3	1.3
130°-140°	96.9	0.7
140°-150°	56.8	0.4
150°-160°	33.8	0.2
160°-170°	17.9	0.1
170°-180°	5.5	0.0
0°-30°	3557.7	25.0
0°-40°	5850.1	41.0
0°-60°	10429.9	73.2
0°-90°	12786.3	89.7
90°-120°	1064.6	7.5
90°-150°	1408.6	9.9
90°-180°	1466.0	10.3
0°-180°	14252.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4575	4575	4575	4575	4575	
5°	4545	4561	4530	4543	4537	432
15°	4398	4381	4350	4388	4393	1242
25°	4086	4068	4096	4134	4122	1883
35°	3621	3630	3667	3706	3691	2263
45°	3005	3054	3111	3190	3200	2315
55°	2211	2318	2476	2575	2569	1974
65°	1298	1501	1704	1438	1174	1293
75°	511	741	545	558	594	558
85°	88	169	216	261	274	107
90°	3	75	137	173	184	7
95°	25	98	170	217	239	88
105°	553	558	500	373	348	524
115°	384	387	402	405	399	388
125°	188	199	211	211	211	178
135°	115	119	122	127	129	91
145°	85	88	89	92	92	54
155°	70	72	73	73	74	33
165°	62	62	63	63	63	18
175°	57	57	56	56	56	5
180°	56	56	56	56	56	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4575.1	4575.1	4575.1	4575.1	4575.1
2.5°	4556.6	4575.7	4551.9	4577.7	4584.3
5°	4545.3	4561.2	4529.5	4543.4	4537.4
7.5°	4524.8	4530.1	4492.4	4503.6	4491.7
10°	4494.4	4491.7	4447.4	4469.2	4471.9
12.5°	4449.4	4441.5	4401.7	4434.9	4435.5
15°	4397.8	4380.6	4349.5	4387.9	4393.1
17.5°	4338.3	4315.7	4295.2	4344.9	4337.0
20°	4268.8	4242.4	4238.4	4292.6	4272.8
22.5°	4182.8	4162.3	4171.6	4223.2	4210.5
25°	4085.5	4067.7	4096.1	4133.9	4121.9
27.5°	3983.0	3972.4	4004.8	4034.0	4010.8
30°	3870.6	3864.6	3907.6	3931.5	3902.3
32.5°	3748.2	3750.2	3791.2	3823.6	3796.5
35°	3621.1	3629.8	3666.8	3705.8	3691.3
37.5°	3481.6	3500.7	3537.9	3582.1	3566.9
40°	3334.1	3361.9	3402.8	3456.5	3442.6
42.5°	3174.6	3209.7	3262.6	3322.1	3320.8
45°	3005.3	3054.3	3111.1	3190.5	3200.4
47.5°	2829.3	2884.2	2956.4	3062.2	3077.4
50°	2638.2	2706.9	2796.9	2923.9	2933.2
52.5°	2425.1	2519.0	2638.2	2759.9	2748.7
55°	2211.4	2317.9	2476.1	2575.3	2569.4
57.5°	1998.4	2118.2	2310.0	2380.8	2380.2
60°	1760.3	1911.8	2121.5	2175.1	2122.1
62.5°	1540.0	1702.7	1920.4	1881.4	1700.1
65°	1297.9	1501.0	1704.1	1438.1	1174.2
67.5°	1082.9	1294.6	1447.5	985.0	843.4
70°	866.6	1100.1	1128.5	730.9	721.0
72.5°	674.8	923.5	778.6	625.8	657.6
75°	510.7	740.9	545.1	557.7	594.0
77.5°	372.5	568.9	424.0	488.9	518.6
80°	256.1	402.9	346.0	410.8	431.3
82.5°	160.8	266.0	277.2	330.7	352.0
85°	88.0	168.7	216.3	261.3	273.9
87.5°	36.3	101.9	165.4	201.8	212.3
90°	3.3	75.4	137.0	173.3	184.2
92.5°	9.4	67.4	131.3	168.8	182.1
95°	25.0	97.6	169.8	216.8	239.4
97.5°	145.6	190.4	241.5	281.7	300.0
100°	295.0	339.6	313.5	337.9	345.9
102.5°	473.8	474.1	381.4	356.8	353.6
105°	553.0	557.7	500.3	372.6	347.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	447.2	457.9	463.3	453.6	439.2
115°	384.4	387.0	401.8	405.3	398.8
117.5°	330.5	330.0	343.4	345.7	345.3
120°	276.6	280.7	290.1	291.7	291.5
122.5°	229.6	236.6	248.2	248.9	248.7
125°	188.1	199.2	211.0	211.3	211.0
127.5°	161.8	167.9	180.1	182.1	181.0
130°	140.9	145.9	154.5	158.0	158.0
132.5°	126.8	130.9	137.3	140.8	141.6
135°	114.6	118.8	122.1	127.1	128.6
137.5°	106.6	108.3	111.8	116.0	117.5
140°	97.9	100.5	102.4	106.0	107.6
142.5°	91.1	93.6	94.6	98.3	99.0
145°	85.0	87.5	89.2	91.6	92.2
147.5°	81.4	83.1	84.9	84.9	86.4
150°	77.0	78.8	79.6	80.5	80.5
152.5°	73.6	74.4	76.2	76.2	77.0
155°	70.1	71.6	73.4	73.4	73.6
157.5°	67.5	69.0	69.9	70.8	70.8
160°	64.9	66.4	67.3	67.3	68.2
162.5°	63.8	64.7	64.7	65.6	65.6
165°	62.1	62.1	62.9	62.9	62.9
167.5°	60.3	60.9	61.2	61.2	62.1
170°	58.6	59.5	59.5	58.8	59.6
172.5°	57.7	57.7	58.6	57.9	57.9
175°	56.9	56.9	56.2	56.3	56.3
177.5°	56.6	56.9	56.2	55.5	54.9
180°	56.2	56.2	56.2	56.2	56.2



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	553.7	563.8	542.8	432.0	369.9
110°	511.8	522.7	516.6	478.2	425.7



(END OF REPORT)