

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: P828583

Luminaire Tested: **OHBL-15SE-MFL-UNV-L950-CD-UPL15**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P828583  
REPORT IS A COMBINATION OF REPORTS P826115 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-MFL-UNV-L950-CD-UPL15  
Description:  
Light Source: -  
Ballast/Driver: -

**Summary**

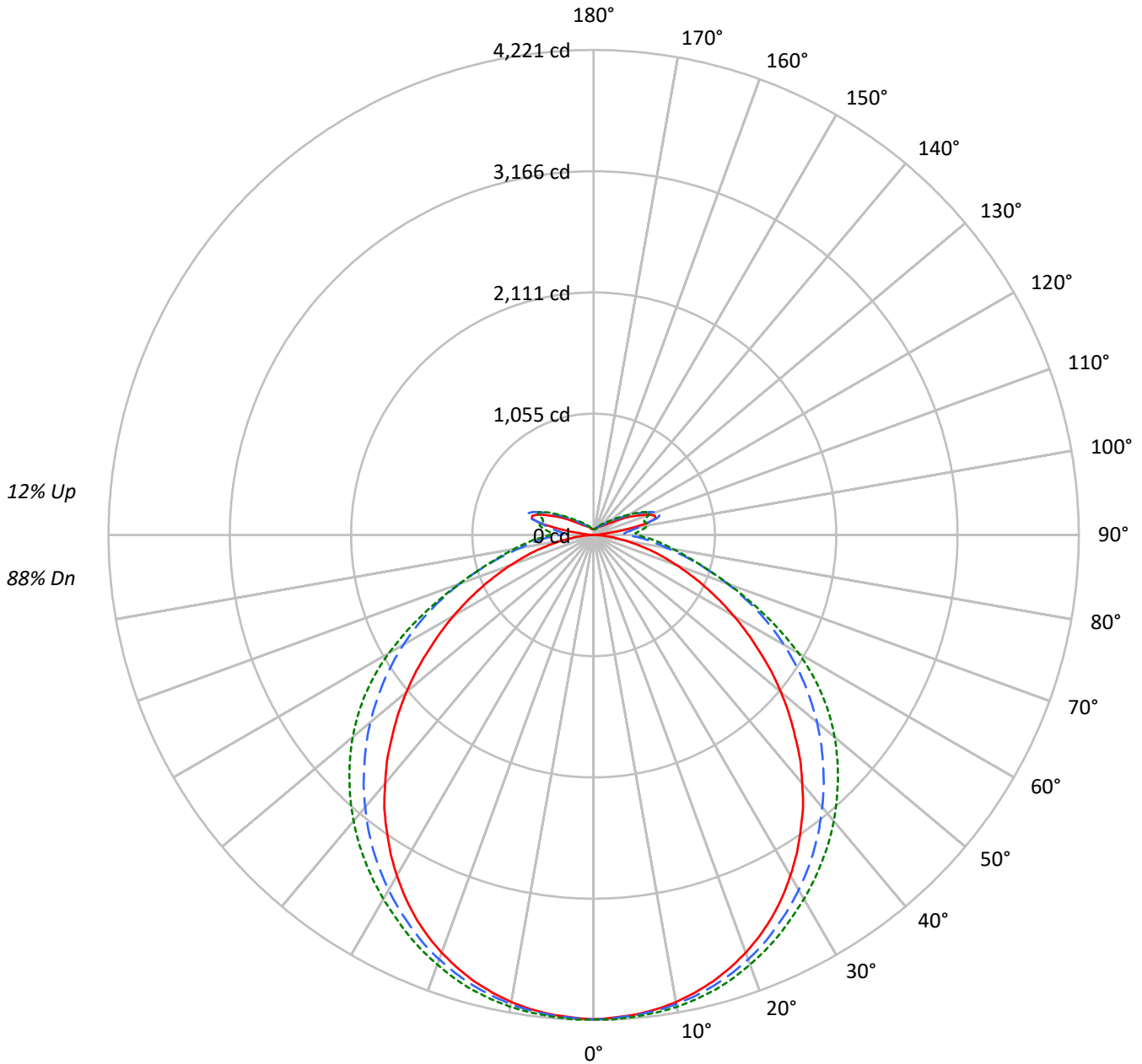
Lumens per Lamp: N/A  
Luminaire Lumens: 13940.8 lumens  
Efficiency: N/A  
Efficacy: 143.3 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 0.88' x H: 0.17')  
CIE Type: Semi-Direct

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	116	116	116	116	112	112	112	112	104	104	104	97	97	97	91	91	91	88																			
1	105	100	96	92	101	97	93	89	90	87	84	84	82	80	79	77	75	72																			
2	96	87	80	75	92	84	78	73	79	74	69	74	70	66	69	66	63	60																			
3	87	77	68	62	84	74	67	61	69	63	58	65	60	55	61	57	53	50																			
4	80	68	59	52	77	66	58	51	62	55	49	58	52	47	54	49	45	43																			
5	73	61	52	45	70	59	50	44	55	48	43	52	46	41	49	44	39	37																			
6	68	54	46	39	65	53	45	39	50	43	37	47	41	36	44	39	35	32																			
7	63	49	41	35	60	48	40	34	45	38	33	43	36	32	40	35	31	29																			
8	58	45	36	31	56	44	36	30	41	34	29	39	33	28	37	32	28	26																			
9	54	41	33	28	52	40	32	27	38	31	26	36	30	26	34	29	25	23																			
10	51	38	30	25	49	37	30	25	35	28	24	33	27	23	32	26	23	21																			

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

	0°	45°	90°
0°	13718	13718	13718
5°	13459	13507	13688
10°	13197	13309	13674
15°	12884	13089	13638
20°	12526	12838	13560
25°	12105	12544	13482
30°	11588	12231	13406
35°	11000	11901	13355
40°	10331	11530	13313
45°	9576	11130	13247
50°	8769	10720	13160
55°	7827	10231	12957
60°	6872	9666	12446
65°	5854	8966	11526
70°	4781	8098	10542
75°	3707	7098	10025
80°	2481	6236	10502
85°	1237	5906	13165



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	399.6	2.9
10°-20°	1146.3	8.2
20°-30°	1733.5	12.4
30°-40°	2081.1	14.9
40°-50°	2149.5	15.4
50°-60°	1933.9	13.9
60°-70°	1456.7	10.4
70°-80°	879.6	6.3
80°-90°	433.5	3.1
90°-100°	307.7	2.2
100°-110°	542.1	3.9
110°-120°	437.6	3.1
120°-130°	215.2	1.5
130°-140°	108.5	0.8
140°-150°	61.3	0.4
150°-160°	33.9	0.2
160°-170°	15.9	0.1
170°-180°	4.8	0.0
0°-30°	3279.4	23.5
0°-40°	5360.5	38.5
0°-60°	9443.9	67.7
0°-90°	12213.7	87.6
90°-120°	1287.5	9.2
90°-150°	1672.5	12.0
90°-180°	1727.0	12.4
0°-180°	13940.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4217	4217	4217	4217	4217	
5°	4190	4201	4196	4213	4207	398
15°	4021	4040	4059	4093	4097	1134
25°	3672	3712	3765	3824	3833	1689
35°	3139	3213	3345	3446	3466	1963
45°	2478	2603	2820	2974	3006	1913
55°	1755	1937	2231	2399	2428	1574
65°	1071	1290	1579	1657	1639	1064
75°	505	724	914	938	929	538
85°	105	278	458	521	530	122
90°	3	128	287	363	381	9
95°	30	136	289	373	402	91
105°	558	585	576	476	455	528
115°	387	403	453	475	471	391
125°	192	205	241	258	260	181
135°	116	122	136	154	159	92
145°	90	90	93	103	106	57
155°	74	76	76	75	77	33
165°	55	55	56	56	56	16
175°	50	50	50	50	50	5
180°	50	50	50	50	50	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4216.7	4216.7	4216.7	4216.7	4216.7
2.5°	4204.4	4214.6	4208.5	4221.9	4220.9
5°	4189.9	4201.2	4196.1	4212.6	4207.4
7.5°	4165.2	4177.5	4176.5	4195.1	4193.0
10°	4129.0	4142.5	4146.6	4171.3	4171.3
12.5°	4079.5	4097.0	4107.3	4137.3	4138.3
15°	4020.7	4040.3	4058.8	4092.9	4097.0
17.5°	3949.5	3974.2	4000.1	4039.3	4044.4
20°	3868.9	3896.8	3931.9	3973.2	3979.4
22.5°	3776.1	3809.1	3854.5	3903.0	3910.2
25°	3671.8	3712.1	3764.7	3823.6	3832.9
27.5°	3553.2	3599.6	3670.8	3736.9	3745.1
30°	3424.1	3478.8	3567.6	3646.0	3659.5
32.5°	3288.0	3350.9	3460.3	3548.0	3566.5
35°	3139.3	3212.6	3344.7	3445.9	3466.5
37.5°	2992.8	3073.3	3222.9	3338.5	3363.3
40°	2821.5	2921.6	3092.9	3220.9	3250.8
42.5°	2660.5	2768.8	2962.9	3102.2	3131.0
45°	2477.8	2602.7	2820.5	2974.2	3006.2
47.5°	2306.5	2441.7	2683.2	2842.1	2875.2
50°	2125.9	2274.6	2536.7	2702.8	2736.8
52.5°	1945.3	2105.3	2385.0	2557.3	2589.3
55°	1755.4	1937.0	2231.2	2399.4	2428.3
57.5°	1579.0	1770.9	2073.3	2233.3	2250.8
60°	1404.6	1603.7	1912.3	2052.7	2058.8
62.5°	1234.3	1443.8	1747.1	1858.6	1850.4
65°	1071.2	1290.0	1579.0	1657.4	1638.8
67.5°	914.3	1140.4	1406.6	1457.2	1432.4
70°	765.7	994.8	1239.4	1265.2	1242.5
72.5°	634.7	856.6	1070.2	1091.8	1075.3
75°	504.6	724.4	914.3	938.0	928.8
77.5°	382.9	596.5	770.9	801.9	803.9
80°	275.5	479.8	646.0	694.5	700.7
82.5°	181.6	372.6	541.8	603.7	613.0
85°	105.3	277.6	458.2	521.1	530.4
87.5°	45.4	200.2	368.4	425.2	436.5
90°	2.6	127.5	287.4	363.3	381.1
92.5°	11.8	114.2	265.0	342.6	362.6
95°	29.5	135.9	289.1	373.2	402.5
97.5°	150.5	224.5	347.6	422.0	447.0
100°	299.2	370.1	407.5	463.9	478.3
102.5°	477.4	503.1	465.5	469.8	471.8
105°	557.6	584.9	576.1	475.5	454.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	450.8	476.5	519.2	530.4	518.9
115°	387.3	402.8	452.7	474.7	471.1
117.5°	334.5	344.0	388.8	409.8	411.2
120°	280.6	292.3	330.3	349.2	352.5
122.5°	233.6	245.7	284.1	301.1	303.3
125°	191.7	205.3	241.4	258.2	260.5
127.5°	163.7	171.9	205.6	224.2	225.6
130°	142.8	148.2	176.1	194.6	197.6
132.5°	128.1	133.6	154.5	171.9	176.8
135°	115.9	121.5	136.4	153.6	158.7
137.5°	107.2	111.0	122.8	138.1	143.0
140°	99.6	103.2	110.9	124.2	129.2
142.5°	94.5	96.2	100.1	113.1	116.2
145°	89.5	90.2	92.9	102.9	106.0
147.5°	85.1	86.9	88.6	92.7	96.7
150°	80.8	83.6	83.4	85.3	88.3
152.5°	77.3	79.2	79.9	78.9	81.8
155°	73.8	75.7	76.4	75.4	77.3
157.5°	60.9	61.7	62.6	63.5	63.5
160°	58.3	59.1	60.0	60.0	60.9
162.5°	56.5	57.4	57.4	58.3	58.3
165°	54.8	54.8	55.6	55.6	55.6
167.5°	53.0	53.0	53.9	53.9	54.8
170°	51.3	52.2	52.2	52.2	53.0
172.5°	50.4	50.4	51.3	51.3	51.3
175°	49.6	49.6	49.6	50.4	50.4
177.5°	48.7	49.6	49.6	49.6	49.6
180°	49.6	49.6	49.6	49.6	49.6



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	557.6	588.4	610.4	525.1	466.8
110°	515.0	545.1	578.3	562.8	514.0



(END OF REPORT)