

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: P828255

Luminaire Tested: **OHBL-12SE-A-UNV-L940-CD-UPL12**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P828255  
REPORT IS A COMBINATION OF REPORTS P826053 AND G3-2310-221-12  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-12SE-A-UNV-L940-CD-UPL12  
Description:  
Light Source: -  
Ballast/Driver: -

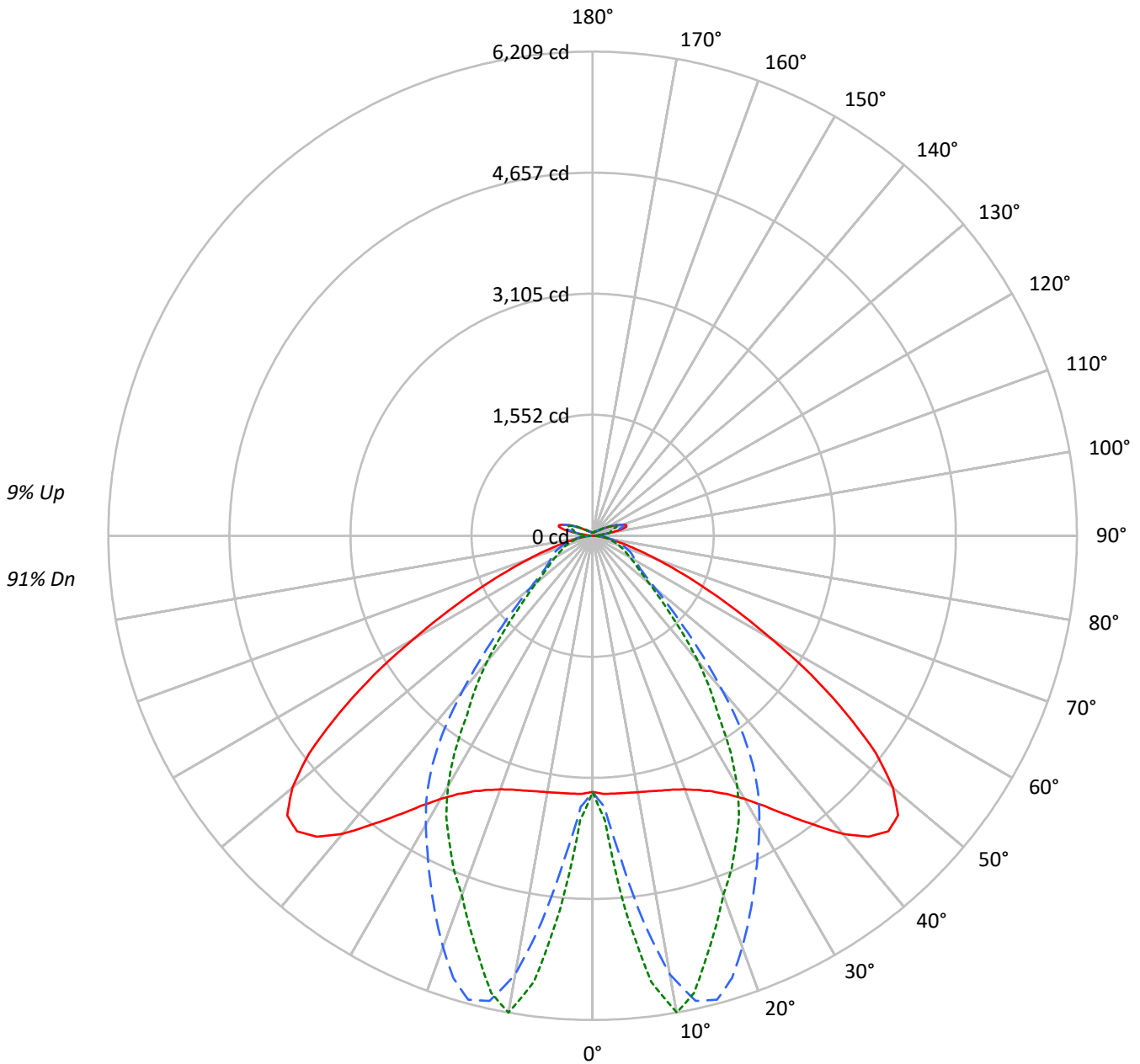
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11626.5 lumens  
Efficiency: N/A  
Efficacy: 148.3 lumens/watt  
Spacing Criteria (0/90/45): 2.18 / 1.37 / 1.3  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 0.88' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 78.4  
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

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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	106	106	106	99	99	99	94	94	94	94	94	91																	
1	108	104	101	98	105	101	98	95	95	93	90	90	88	86	85	83	82	82	82	79																	
2	100	93	87	83	97	91	85	81	86	81	78	81	78	75	77	74	72	72	72	69																	
3	93	84	77	71	89	81	75	70	77	72	68	73	69	65	70	66	63	63	63	61																	
4	86	75	68	62	83	73	66	61	70	64	59	67	62	58	64	59	56	56	56	54																	
5	80	68	60	55	77	67	59	54	64	57	53	61	55	51	58	54	50	50	50	48																	
6	74	62	54	49	72	61	53	48	58	52	47	56	50	46	53	49	45	45	45	43																	
7	69	57	49	44	67	56	48	43	53	47	42	51	46	41	49	44	40	40	40	39																	
8	65	52	45	39	63	51	44	39	49	43	38	47	42	37	46	41	37	37	37	35																	
9	60	48	41	36	59	47	40	35	46	39	35	44	38	34	42	37	34	34	34	32																	
10	57	45	38	33	55	44	37	32	42	36	32	41	35	31	39	34	31	31	31	29																	

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

	0°	45°	90°
0°	10689	10689	10689
5°	10660	13370	15670
10°	10672	18332	20354
15°	10842	19860	18681
20°	11201	18324	16695
25°	11919	16383	15271
30°	13176	14660	13579
35°	15346	12746	10821
40°	18265	9636	8612
45°	20715	6511	6129
50°	20731	4425	4533
55°	17675	3444	3704
60°	12964	3180	3332
65°	8685	3138	3156
70°	5389	2961	3057
75°	3108	2657	2924
80°	1717	2227	3019
85°	739	1758	2797



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	429.0	3.7
10°-20°	1514.0	13.0
20°-30°	2230.9	19.2
30°-40°	2344.4	20.2
40°-50°	1793.9	15.4
50°-60°	1083.2	9.3
60°-70°	661.0	5.7
70°-80°	360.8	3.1
80°-90°	129.4	1.1
90°-100°	103.4	0.9
100°-110°	359.9	3.1
110°-120°	309.1	2.7
120°-130°	148.1	1.3
130°-140°	74.1	0.6
140°-150°	43.1	0.4
150°-160°	25.2	0.2
160°-170°	13.1	0.1
170°-180°	4.0	0.0
0°-30°	4173.9	35.9
0°-40°	6518.3	56.1
0°-60°	9395.3	80.8
0°-90°	10546.5	90.7
90°-120°	772.4	6.6
90°-150°	1037.8	8.9
90°-180°	1080.0	9.3
0°-180°	11626.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3286	3286	3286	3286	3286	
5°	3319	3560	4154	4638	4817	317
15°	3383	5270	6159	5747	5612	962
25°	3615	6116	4917	4452	4342	1690
35°	4379	4898	3582	2983	2809	2778
45°	5360	2795	1650	1452	1391	4050
55°	3964	948	751	696	694	3503
65°	1589	600	553	473	449	1628
75°	423	373	342	282	271	487
85°	63	116	136	124	113	78
90°	3	16	21	27	30	5
95°	22	50	75	101	116	71
105°	450	444	379	269	247	425
115°	313	313	314	311	306	313
125°	153	159	163	161	162	143
135°	89	91	95	96	96	71
145°	65	67	68	69	70	41
155°	52	53	54	55	55	24
165°	45	45	46	46	46	13
175°	41	41	41	41	41	4
180°	40	40	40	40	40	



TEST NUMBER: P828255

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3285.7	3285.7	3285.7	3285.7	3285.7
2.5°	3312.7	3346.4	3479.8	3618.1	3651.8
5°	3318.7	3560.5	4153.5	4637.8	4816.7
7.5°	3325.7	3907.2	4988.4	5581.2	5771.0
10°	3339.1	4345.7	5711.7	6137.3	6209.1
12.5°	3355.7	4810.2	6109.8	6094.2	6003.8
15°	3383.4	5269.7	6158.7	5747.0	5611.9
17.5°	3412.4	5658.4	5944.9	5369.2	5251.5
20°	3459.6	5947.0	5612.2	5033.3	4899.6
22.5°	3527.6	6105.7	5263.4	4729.5	4642.3
25°	3615.4	6115.9	4916.9	4451.5	4341.6
27.5°	3733.0	5974.0	4584.8	4179.2	4063.1
30°	3893.1	5702.4	4276.2	3850.7	3706.7
32.5°	4110.6	5311.4	3958.1	3454.2	3292.8
35°	4379.4	4897.8	3582.0	2983.1	2808.7
37.5°	4672.7	4438.4	3125.7	2565.9	2464.3
40°	4988.4	3965.1	2584.8	2175.4	2102.8
42.5°	5234.6	3450.6	2082.3	1807.8	1730.5
45°	5360.1	2794.7	1650.0	1452.0	1390.9
47.5°	5311.3	2169.4	1308.1	1153.7	1135.3
50°	5025.9	1601.9	1047.2	950.4	942.7
52.5°	4579.9	1193.9	865.0	805.1	792.0
55°	3964.0	947.7	751.1	696.2	694.1
57.5°	3328.1	805.1	681.8	639.2	624.4
60°	2649.9	717.9	629.2	581.2	551.2
62.5°	2077.1	656.9	590.6	525.4	497.4
65°	1589.2	599.9	552.6	472.9	448.7
67.5°	1184.7	545.7	506.1	417.6	403.5
70°	863.1	490.0	453.2	371.4	360.3
72.5°	615.1	434.5	400.1	328.0	315.8
75°	423.1	373.1	342.2	282.4	270.9
77.5°	285.4	310.4	285.2	241.1	236.3
80°	190.7	246.1	230.7	204.3	201.4
82.5°	115.6	178.7	182.1	166.2	158.1
85°	62.9	115.6	136.4	124.2	112.7
87.5°	24.7	64.1	94.0	84.4	79.5
90°	2.6	15.6	20.9	27.0	30.4
92.5°	7.8	20.0	33.0	47.0	51.3
95°	21.7	50.4	74.8	100.9	116.5
97.5°	117.4	127.8	144.3	170.4	179.1
100°	240.0	258.2	214.8	224.3	228.7
102.5°	381.7	376.5	274.7	248.7	244.3
105°	449.5	444.3	379.1	268.7	246.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	363.4	366.0	363.4	349.5	334.7
115°	313.0	313.0	313.9	311.3	306.0
117.5°	262.6	266.0	268.7	266.0	264.3
120°	220.0	225.2	226.9	223.4	223.4
122.5°	185.2	189.5	192.1	189.5	190.4
125°	153.0	159.1	162.6	160.8	161.7
127.5°	127.8	133.0	139.1	138.2	138.2
130°	111.3	114.8	119.1	120.0	120.0
132.5°	99.1	101.7	105.2	106.1	106.9
135°	88.7	91.3	94.8	95.6	95.6
137.5°	81.7	83.5	86.1	86.9	87.8
140°	74.8	77.4	79.1	80.0	80.0
142.5°	69.6	71.3	73.0	73.9	74.8
145°	65.2	66.9	67.8	68.7	69.6
147.5°	60.9	62.6	64.3	64.3	65.2
150°	58.3	59.1	60.0	60.9	60.9
152.5°	54.8	55.6	56.5	57.4	57.4
155°	52.2	53.0	53.9	54.8	54.8
157.5°	49.6	51.3	51.3	52.2	52.2
160°	47.8	48.7	49.6	49.6	49.6
162.5°	46.1	47.0	47.0	47.8	47.8
165°	45.2	45.2	46.1	46.1	46.1
167.5°	43.5	43.5	44.3	44.3	44.3
170°	42.6	42.6	42.6	43.5	43.5
172.5°	41.7	41.7	41.7	41.7	41.7
175°	40.9	40.9	40.9	40.9	40.9
177.5°	40.0	40.9	40.9	40.9	40.9
180°	40.0	40.0	40.0	40.0	40.0



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	452.1	453.8	418.2	324.3	268.7
110°	413.9	419.9	400.8	365.2	320.8



(END OF REPORT)