

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: P828609

Luminaire Tested: **OHBL-18SE-A-UNV-L950-CD-UPL12**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P828609  
REPORT IS A COMBINATION OF REPORTS P826065 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-18SE-A-UNV-L950-CD-UPL12  
Description:  
Light Source: -  
Ballast/Driver: -

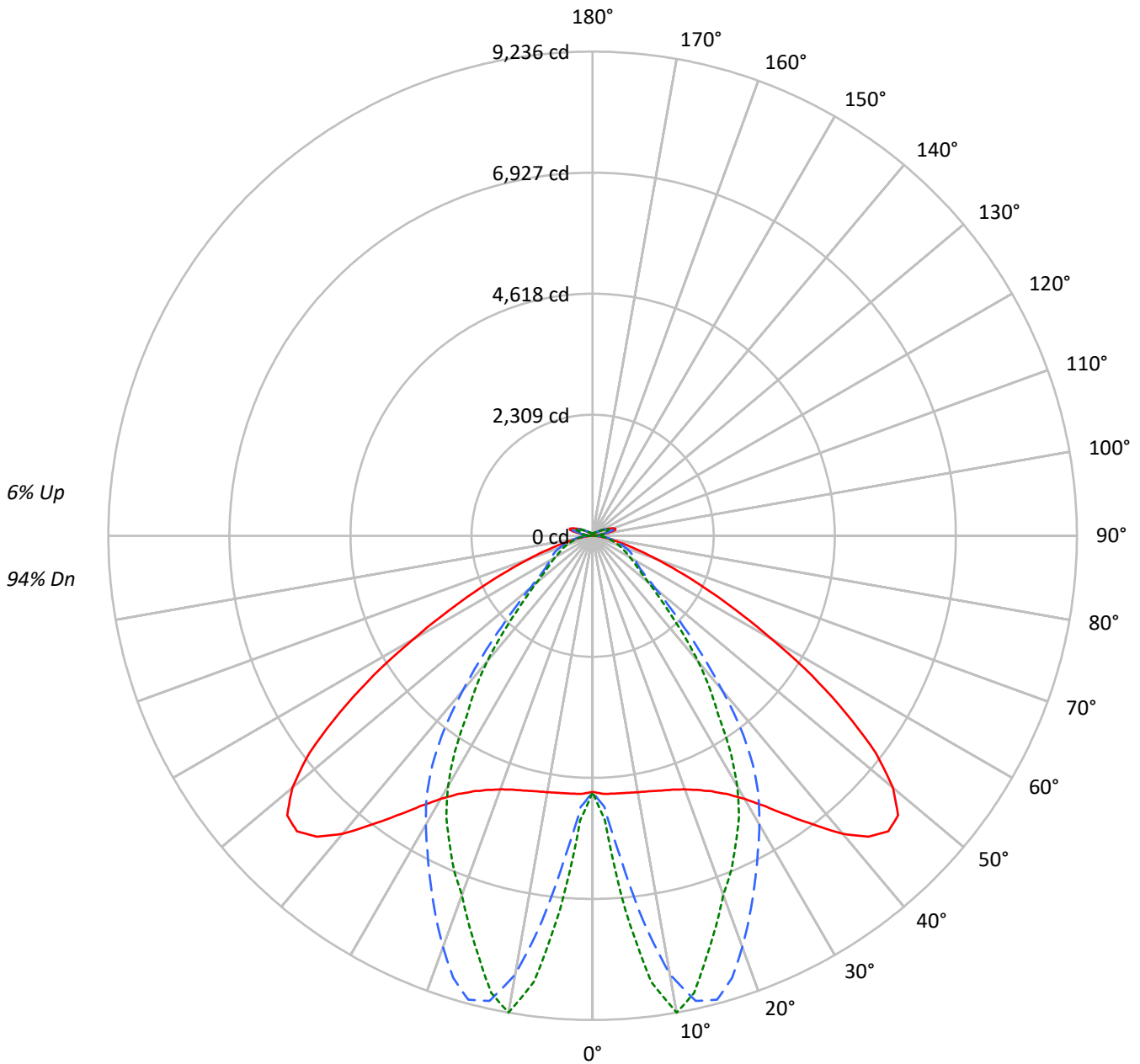
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16766.6 lumens  
Efficiency: N/A  
Efficacy: 147.9 lumens/watt  
Spacing Criteria (0/90/45): 2.18 / 1.37 / 1.3  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 113.4  
Input Voltage (V): NR  
Input Current (Ain): 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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	96	96	96	94																			
1	109	105	101	98	106	102	99	96	97	94	92	92	90	88	87	86	84	82																			
2	101	94	88	83	98	91	86	82	87	83	79	83	79	76	79	76	74	71																			
3	93	84	77	72	90	82	76	71	78	73	69	75	70	67	72	68	65	63																			
4	86	76	68	63	84	74	67	62	71	65	60	68	63	59	65	61	57	55																			
5	80	69	61	55	78	67	60	55	65	58	53	62	57	52	60	55	51	49																			
6	75	63	55	49	72	62	54	49	59	53	48	57	51	47	55	50	46	44																			
7	70	57	50	44	68	56	49	44	54	48	43	52	47	42	51	46	42	40																			
8	65	53	45	40	63	52	45	40	50	44	39	48	43	38	47	42	38	36																			
9	61	49	41	36	59	48	41	36	46	40	36	45	39	35	44	38	35	33																			
10	57	45	38	33	56	45	38	33	43	37	33	42	36	32	41	35	32	30																			

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

	0°	45°	90°
0°	8348	8348	8348
5°	8390	10499	12237
10°	8465	14475	15895
15°	8667	15769	14589
20°	9025	14631	13038
25°	9683	13158	11926
30°	10798	11848	10604
35°	12694	10370	8450
40°	15263	7897	6725
45°	17508	5380	4787
50°	17749	3691	3540
55°	15364	2904	2892
60°	11477	2718	2602
65°	7866	2726	2465
70°	5029	2630	2387
75°	3025	2434	2284
80°	1779	2139	2357
85°	857	1836	2184



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	638.1	3.8
10°-20°	2252.1	13.4
20°-30°	3318.5	19.8
30°-40°	3487.3	20.8
40°-50°	2668.4	15.9
50°-60°	1611.3	9.6
60°-70°	983.3	5.9
70°-80°	536.7	3.2
80°-90°	191.1	1.1
90°-100°	103.4	0.6
100°-110°	359.9	2.1
110°-120°	309.1	1.8
120°-130°	148.1	0.9
130°-140°	74.1	0.4
140°-150°	43.1	0.3
150°-160°	25.2	0.2
160°-170°	13.1	0.1
170°-180°	4.0	0.0
0°-30°	6208.7	37.0
0°-40°	9695.9	57.8
0°-60°	13975.6	83.4
0°-90°	15686.6	93.6
90°-120°	772.4	4.6
90°-150°	1037.8	6.2
90°-180°	1080.0	6.4
0°-180°	16766.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4888	4888	4888	4888	4888	
5°	4936	5296	6178	6899	7165	472
15°	5033	7839	9161	8549	8348	1431
25°	5378	9097	7314	6622	6458	2513
35°	6514	7285	5328	4437	4178	4133
45°	7973	4157	2454	2160	2069	6024
55°	5896	1410	1117	1036	1032	5210
65°	2364	892	822	703	668	2422
75°	629	555	509	420	403	724
85°	94	172	203	185	168	116
90°	3	16	21	27	30	7
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	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4887.5	4887.5	4887.5	4887.5	4887.5
2.5°	4927.6	4977.8	5176.2	5381.9	5432.0
5°	4936.5	5296.2	6178.4	6898.7	7164.9
7.5°	4947.1	5812.0	7420.2	8302.1	8584.4
10°	4967.0	6464.2	8496.2	9129.3	9236.0
12.5°	4991.7	7155.3	9088.2	9065.2	8930.7
15°	5032.8	7838.7	9161.2	8548.8	8347.8
17.5°	5076.0	8416.9	8843.0	7986.6	7811.7
20°	5146.2	8846.2	8348.2	7487.0	7288.1
22.5°	5247.4	9082.2	7829.3	7035.2	6905.4
25°	5377.9	9097.4	7313.9	6621.6	6458.1
27.5°	5553.0	8886.4	6819.9	6216.5	6043.9
30°	5791.0	8482.3	6360.9	5728.0	5513.8
32.5°	6114.5	7900.7	5887.7	5138.2	4898.0
35°	6514.3	7285.4	5328.3	4437.4	4177.9
37.5°	6950.7	6602.1	4649.4	3816.8	3665.7
40°	7420.2	5898.1	3844.9	3236.0	3127.8
42.5°	7786.5	5132.8	3097.5	2689.2	2574.2
45°	7973.2	4157.2	2454.4	2159.8	2069.0
47.5°	7900.6	3227.0	1945.8	1716.1	1688.8
50°	7476.1	2382.8	1557.6	1413.6	1402.3
52.5°	6812.5	1776.0	1286.6	1197.6	1178.1
55°	5896.5	1409.6	1117.3	1035.6	1032.4
57.5°	4950.6	1197.6	1014.2	950.9	928.9
60°	3941.7	1067.9	936.0	864.6	819.9
62.5°	3089.7	977.1	878.6	781.5	739.8
65°	2363.9	892.4	822.0	703.4	667.6
67.5°	1762.2	811.7	752.9	621.2	600.3
70°	1283.9	728.9	674.0	552.4	535.9
72.5°	915.1	646.3	595.2	487.9	469.7
75°	629.4	555.0	509.1	420.0	403.1
77.5°	424.6	461.7	424.2	358.6	351.5
80°	283.5	366.1	343.1	303.9	299.5
82.5°	172.1	265.8	270.7	247.1	235.2
85°	93.7	172.1	202.8	184.8	167.6
87.5°	36.7	95.4	139.8	125.5	118.2
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)