

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: P828603

Luminaire Tested: **OHBL-18HE-NL-UNV-L950-CD-UPL12**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P828603  
REPORT IS A COMBINATION OF REPORTS P826063 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-18HE-NL-UNV-L950-CD-UPL12  
Description:  
Light Source: -  
Ballast/Driver: -

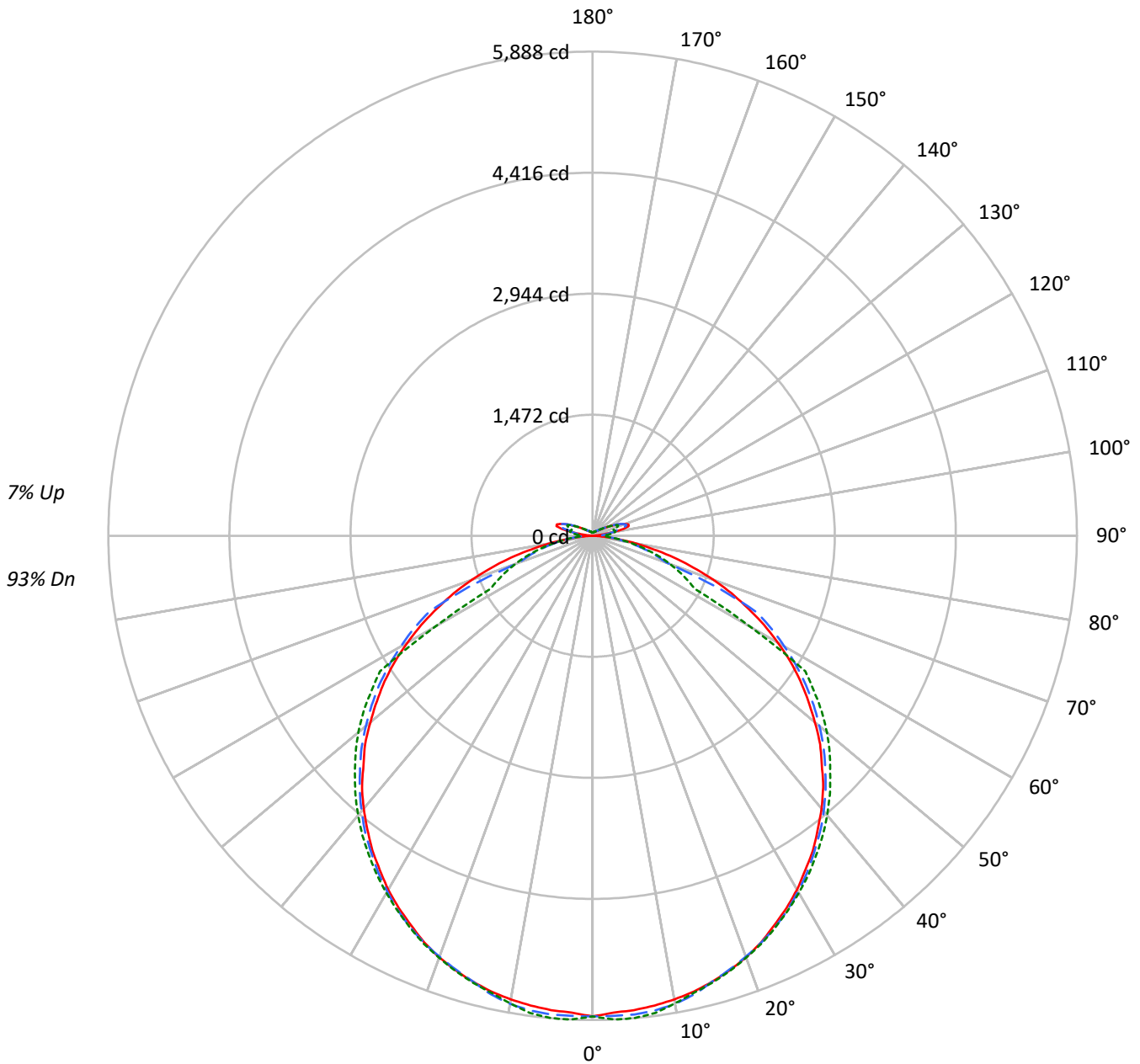
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17492.6 lumens  
Efficiency: N/A  
Efficacy: 157.0 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: Direct  
  
Input Watts (W): 111.4  
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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	96	96	93																			
1	108	103	99	95	104	100	97	93	95	92	89	90	87	85	85	83	82	79																			
2	98	90	84	78	95	88	82	77	83	78	74	79	75	71	75	72	69	66																			
3	90	79	72	65	87	77	70	64	73	67	62	70	65	60	67	62	59	56																			
4	82	70	62	55	79	69	61	55	65	59	53	62	56	52	59	54	50	48																			
5	75	63	54	48	73	61	53	47	59	51	46	56	50	45	53	48	44	42																			
6	70	57	48	41	67	55	47	41	53	46	40	51	44	39	48	43	38	36																			
7	64	51	43	37	62	50	42	36	48	41	35	46	40	35	44	38	34	32																			
8	60	47	38	33	58	46	38	32	44	37	32	42	36	31	40	35	31	29																			
9	56	43	35	29	54	42	34	29	40	33	28	39	32	28	37	32	27	26																			
10	52	39	32	26	51	39	31	26	37	30	26	36	30	25	35	29	25	23																			

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

	0°	45°	90°
0°	9983	9983	9983
5°	9876	9964	10070
10°	9827	9918	9966
15°	9772	9767	9879
20°	9703	9685	9830
25°	9580	9623	9785
30°	9474	9517	9742
35°	9346	9390	9704
40°	9192	9270	9675
45°	8976	9102	9615
50°	8746	8913	9577
55°	8467	8673	9414
60°	8048	8319	7273
65°	7448	7864	4844
70°	6674	4043	4631
75°	5541	3653	4318
80°	3891	3057	3780
85°	1561	2449	3271



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	555.3	3.2
10°-20°	1589.9	9.1
20°-30°	2419.2	13.8
30°-40°	2941.4	16.8
40°-50°	3092.7	17.7
50°-60°	2824.0	16.1
60°-70°	1810.3	10.3
70°-80°	855.2	4.9
80°-90°	239.9	1.4
90°-100°	166.2	1.0
100°-110°	377.1	2.2
110°-120°	313.9	1.8
120°-130°	148.1	0.8
130°-140°	74.1	0.4
140°-150°	43.1	0.2
150°-160°	25.2	0.1
160°-170°	13.1	0.1
170°-180°	4.0	0.0
0°-30°	4564.4	26.1
0°-40°	7505.7	42.9
0°-60°	13422.5	76.7
0°-90°	16327.9	93.3
90°-120°	857.2	4.9
90°-150°	1122.5	6.4
90°-180°	1165.0	6.7
0°-180°	17492.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5845	5845	5845	5845	5845	
5°	5790	5813	5843	5875	5887	551
15°	5615	5657	5614	5622	5626	1585
25°	5225	5233	5252	5260	5256	2411
35°	4670	4643	4696	4754	4740	2919
45°	3939	3932	3999	4093	4086	3045
55°	3087	3063	3167	3273	3281	2753
65°	2080	2080	2201	1262	1267	2062
75°	1028	1047	680	716	719	1083
85°	134	170	212	230	217	199
90°	3	73	115	139	140	8
95°	25	80	142	192	208	73
105°	455	456	396	285	262	430
115°	318	320	324	318	307	317
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°	5844.8	5844.8	5844.8	5844.8	5844.8
2.5°	5803.7	5823.3	5844.8	5872.5	5887.8
5°	5790.4	5812.9	5842.8	5874.6	5886.8
7.5°	5761.7	5793.5	5822.2	5844.8	5852.0
10°	5725.8	5763.8	5780.2	5778.2	5773.0
12.5°	5677.6	5717.6	5712.5	5688.9	5692.9
15°	5615.0	5657.0	5614.1	5622.2	5626.3
17.5°	5541.2	5582.3	5531.9	5548.4	5549.4
20°	5455.1	5485.8	5446.8	5460.2	5460.2
22.5°	5351.5	5373.0	5356.6	5365.9	5367.9
25°	5225.4	5233.4	5252.0	5260.2	5256.1
27.5°	5104.3	5094.1	5130.0	5149.5	5139.1
30°	4969.9	4953.6	4995.6	5027.4	5015.1
32.5°	4816.1	4805.9	4854.1	4892.0	4884.8
35°	4670.5	4642.8	4696.1	4753.5	4740.2
37.5°	4498.2	4481.8	4542.2	4602.8	4595.7
40°	4330.0	4302.3	4371.0	4442.8	4435.6
42.5°	4149.5	4116.6	4191.5	4277.8	4269.5
45°	3939.2	3932.1	3998.7	4093.1	4085.9
47.5°	3752.6	3716.7	3810.0	3901.3	3909.5
50°	3526.9	3513.7	3598.8	3709.6	3717.7
52.5°	3306.5	3297.3	3386.4	3498.2	3512.6
55°	3087.0	3063.4	3167.0	3272.6	3280.8
57.5°	2852.2	2827.5	2933.2	3048.1	3065.5
60°	2600.9	2577.3	2693.1	2799.9	2226.6
62.5°	2349.6	2333.2	2454.3	1738.4	1401.0
65°	2079.9	2079.9	2200.8	1262.4	1266.6
67.5°	1827.7	1811.2	1641.0	1134.2	1134.2
70°	1556.8	1563.0	945.5	993.9	994.8
72.5°	1285.0	1307.6	816.4	855.3	857.4
75°	1027.6	1047.2	679.9	715.9	718.9
77.5°	754.9	580.4	546.6	574.4	575.4
80°	530.2	366.1	418.5	445.1	442.0
82.5°	309.7	256.4	306.7	326.2	325.1
85°	134.3	170.2	212.3	229.8	217.4
87.5°	43.0	105.6	132.2	142.6	141.5
90°	2.6	73.1	115.2	138.7	140.2
92.5°	7.8	65.0	115.1	149.5	154.8
95°	24.8	80.2	142.5	192.1	207.8
97.5°	119.5	149.3	192.5	242.1	252.9
100°	242.1	275.6	246.6	275.5	281.0
102.5°	386.8	390.8	294.2	281.4	278.2
105°	454.6	455.6	395.5	285.1	262.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	369.6	374.3	374.7	357.8	335.7
115°	318.1	320.1	324.0	318.4	307.0
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°	457.2	464.0	432.5	333.5	271.7
110°	420.0	429.2	413.1	373.4	321.8



(END OF REPORT)