

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: P828596

Luminaire Tested: **OHBL-18HE-MCL-UNV-L950-CD-UPL24**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P828596  
REPORT IS A COMBINATION OF REPORTS P826228 AND G3-2310-221-6  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-18HE-MCL-UNV-L950-CD-UPL24  
Description:  
Light Source: -  
Ballast/Driver: -

**Summary**

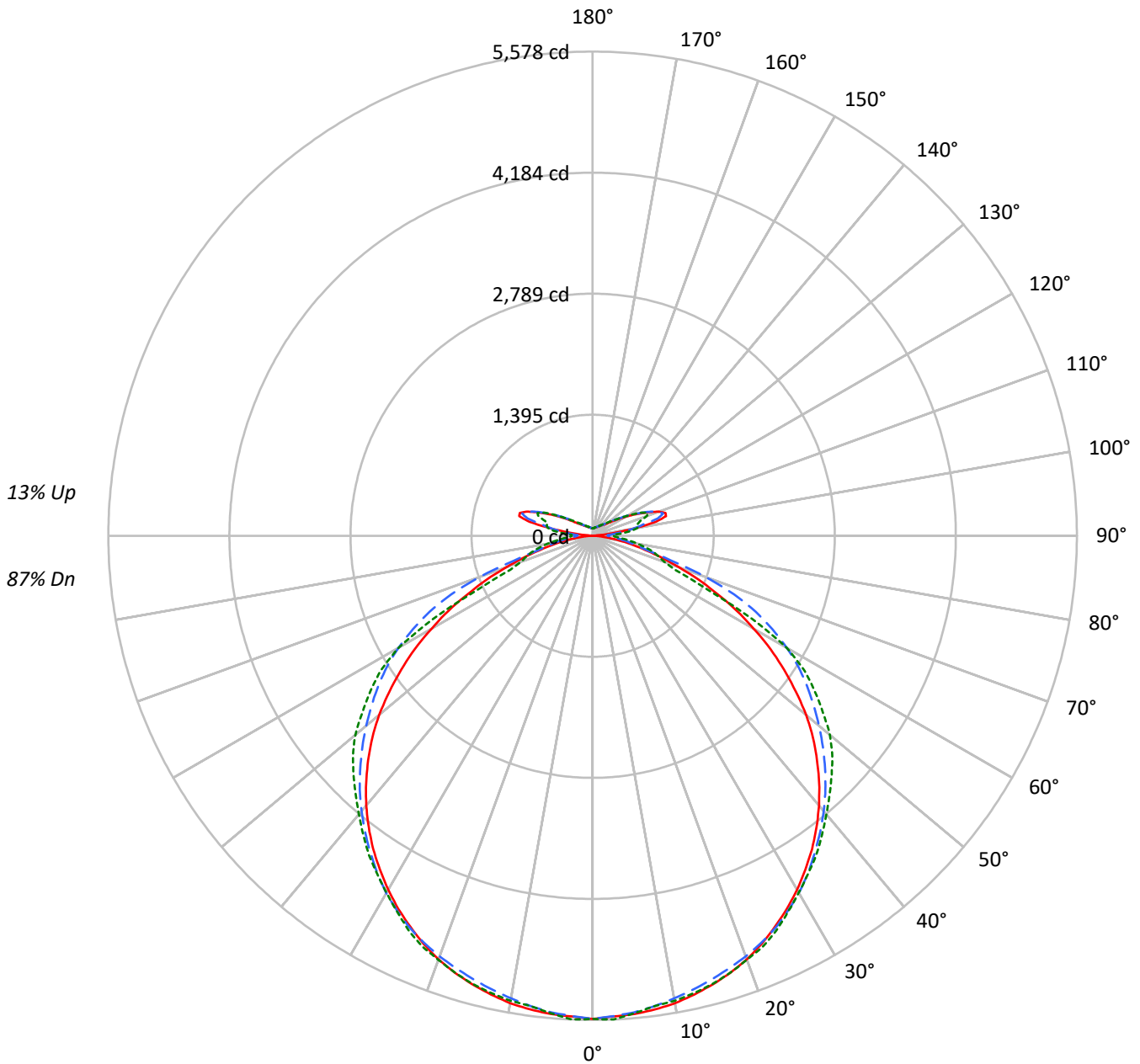
Lumens per Lamp: N/A  
Luminaire Lumens: 17836.9 lumens  
Efficiency: N/A  
Efficacy: 148.1 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')  
CIE Type: Semi-Direct

Input Watts (W): 120.4  
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					20					
RC	80					70					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	90	90	90	87								
1	106	102	98	94	102	98	94	91	92	89	86	86	83	81	80	78	77	74								
2	97	89	82	77	93	86	80	75	80	76	71	75	71	68	70	67	65	62								
3	88	78	70	64	85	76	68	63	71	65	60	66	62	57	62	58	55	52								
4	81	69	61	54	78	67	59	53	63	56	51	59	54	49	56	51	47	45								
5	74	62	53	47	71	60	52	46	56	49	44	53	47	43	50	45	41	39								
6	69	56	47	41	66	54	46	40	51	44	39	48	42	37	45	40	36	34								
7	63	50	42	36	61	49	41	35	46	39	34	44	38	33	41	36	32	30								
8	59	46	37	32	57	45	37	31	42	35	30	40	34	29	38	33	29	27								
9	55	42	34	29	53	41	33	28	39	32	27	37	31	27	35	30	26	24								
10	52	39	31	26	50	38	30	25	36	29	25	34	28	24	32	27	23	22								

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

	0°	45°	90°
0°	9507	9507	9507
5°	9399	9365	9428
10°	9319	9219	9363
15°	9214	9108	9341
20°	9108	9037	9299
25°	8950	8966	9260
30°	8780	8855	9131
35°	8585	8682	9083
40°	8344	8504	9005
45°	8029	8297	9008
50°	7620	8063	9009
55°	7011	7831	8757
60°	6235	7494	8194
65°	5255	6876	5275
70°	4130	5357	3908
75°	2986	3171	4096
80°	1954	2624	4129
85°	978	2383	4342



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	524.8	2.9
10°-20°	1505.0	8.4
20°-30°	2298.6	12.9
30°-40°	2789.0	15.6
40°-50°	2923.1	16.4
50°-60°	2648.8	14.9
60°-70°	1775.9	10.0
70°-80°	797.5	4.5
80°-90°	294.7	1.7
90°-100°	288.7	1.6
100°-110°	740.9	4.2
110°-120°	620.9	3.5
120°-130°	299.4	1.7
130°-140°	151.9	0.9
140°-150°	88.8	0.5
150°-160°	52.6	0.3
160°-170°	27.8	0.2
170°-180°	8.5	0.0
0°-30°	4328.5	24.3
0°-40°	7117.4	39.9
0°-60°	12689.4	71.1
0°-90°	15557.5	87.2
90°-120°	1650.5	9.3
90°-150°	2190.6	12.3
90°-180°	2279.0	12.8
0°-180°	17836.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5566	5566	5566	5566	5566	
5°	5530	5549	5511	5528	5520	526
15°	5350	5330	5292	5338	5345	1511
25°	4971	4949	4984	5029	5015	2291
35°	4406	4416	4461	4509	4491	2754
45°	3656	3716	3785	3882	3894	2817
55°	2691	2820	3012	3133	3126	2402
65°	1579	1826	2073	1750	1429	1573
75°	621	901	663	678	723	679
85°	107	205	263	318	333	131
90°	5	98	177	224	239	10
95°	47	139	243	312	341	144
105°	875	881	780	578	538	831
115°	608	617	631	636	632	613
125°	300	316	330	332	330	281
135°	181	186	192	198	201	143
145°	133	138	140	142	144	85
155°	109	112	113	114	113	51
165°	96	97	98	98	98	27
175°	87	88	87	87	87	8
180°	86	86	86	86	86	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5566.2	5566.2	5566.2	5566.2	5566.2
2.5°	5543.7	5567.1	5538.0	5569.4	5577.5
5°	5530.0	5549.3	5510.7	5527.6	5520.4
7.5°	5505.1	5511.5	5465.6	5479.3	5464.8
10°	5468.0	5464.8	5410.9	5437.4	5440.6
12.5°	5413.2	5403.6	5355.3	5395.6	5396.4
15°	5350.5	5329.6	5291.8	5338.5	5344.9
17.5°	5278.0	5250.7	5225.8	5286.1	5276.5
20°	5193.5	5161.4	5156.6	5222.6	5198.4
22.5°	5088.9	5064.0	5075.3	5138.1	5122.8
25°	4970.6	4948.9	4983.5	5029.4	5014.9
27.5°	4845.8	4833.0	4872.5	4907.8	4879.7
30°	4709.1	4701.8	4754.1	4783.1	4747.7
32.5°	4560.1	4562.6	4612.5	4651.9	4618.9
35°	4405.6	4416.1	4461.2	4508.7	4490.9
37.5°	4235.8	4259.1	4304.3	4358.2	4339.7
40°	4056.3	4090.1	4140.0	4205.2	4188.4
42.5°	3862.4	3905.0	3969.4	4041.9	4040.2
45°	3656.4	3715.9	3785.1	3881.7	3893.8
47.5°	3442.2	3509.1	3596.8	3725.6	3744.1
50°	3209.6	3293.4	3402.8	3557.3	3568.6
52.5°	2950.5	3064.8	3209.6	3357.8	3344.1
55°	2690.6	2820.1	3012.5	3133.2	3126.0
57.5°	2431.4	2577.0	2810.5	2896.6	2895.8
60°	2141.6	2325.9	2581.1	2646.2	2581.9
62.5°	1873.7	2071.6	2336.5	2288.9	2068.4
65°	1579.1	1826.2	2073.3	1749.7	1428.6
67.5°	1317.5	1575.1	1761.0	1198.4	1026.1
70°	1054.3	1338.4	1373.0	889.4	877.3
72.5°	820.9	1123.6	947.3	761.4	800.0
75°	621.3	901.4	663.2	678.5	722.8
77.5°	453.2	692.2	515.9	594.8	631.0
80°	311.4	490.1	420.9	499.8	524.7
82.5°	195.5	323.5	337.3	402.4	428.2
85°	107.0	205.2	263.2	317.9	333.2
87.5°	44.3	124.0	201.2	245.4	258.3
90°	5.1	98.0	176.8	224.5	238.7
92.5°	15.6	91.5	173.6	226.3	243.3
95°	46.9	139.2	242.9	311.7	341.0
97.5°	235.5	286.8	350.2	423.7	455.6
100°	482.4	537.7	476.5	513.6	523.8
102.5°	744.9	759.8	592.0	547.7	543.1
105°	875.3	881.0	779.7	578.1	537.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	708.2	724.2	726.4	713.6	687.5
115°	608.1	617.4	631.0	635.8	632.2
117.5°	521.1	523.7	539.1	543.1	545.6
120°	432.5	442.8	461.2	460.8	456.4
122.5°	363.8	374.2	388.3	390.6	386.1
125°	299.5	316.0	330.1	331.6	329.9
127.5°	255.1	266.4	281.5	284.8	284.7
130°	222.9	230.7	243.4	247.5	248.4
132.5°	199.4	206.3	214.8	221.4	220.6
135°	181.1	185.5	192.3	198.1	200.6
137.5°	167.2	169.8	175.0	181.6	182.4
140°	154.2	157.6	161.1	166.1	167.8
142.5°	142.0	146.3	148.9	153.1	153.9
145°	133.3	137.6	140.2	141.9	143.5
147.5°	126.3	129.8	131.5	133.3	134.1
150°	120.2	122.0	124.6	125.5	126.3
152.5°	114.2	115.9	118.5	119.4	119.4
155°	108.9	111.5	113.2	114.1	113.3
157.5°	104.6	107.1	108.9	109.7	109.7
160°	101.1	102.8	104.5	105.4	105.4
162.5°	98.4	99.3	100.2	101.0	101.0
165°	95.8	96.7	97.6	97.6	97.6
167.5°	93.2	94.0	94.1	94.9	94.9
170°	90.6	91.5	91.5	91.6	91.6
172.5°	88.9	89.7	89.7	88.9	89.8
175°	87.1	88.0	87.2	87.2	87.2
177.5°	87.9	87.1	86.3	85.5	84.7
180°	86.3	86.3	86.3	86.3	86.3



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	879.5	894.3	850.7	681.3	576.9
110°	812.6	828.4	809.5	749.7	666.1



(END OF REPORT)