

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: P828595

Luminaire Tested: **OHBL-18HE-MCL-UNV-L950-CD-UPL18**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P828595  
REPORT IS A COMBINATION OF REPORTS P826156 AND G3-2310-221-8  
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-UPL18  
Description:  
Light Source: -  
Ballast/Driver: -

**Summary**

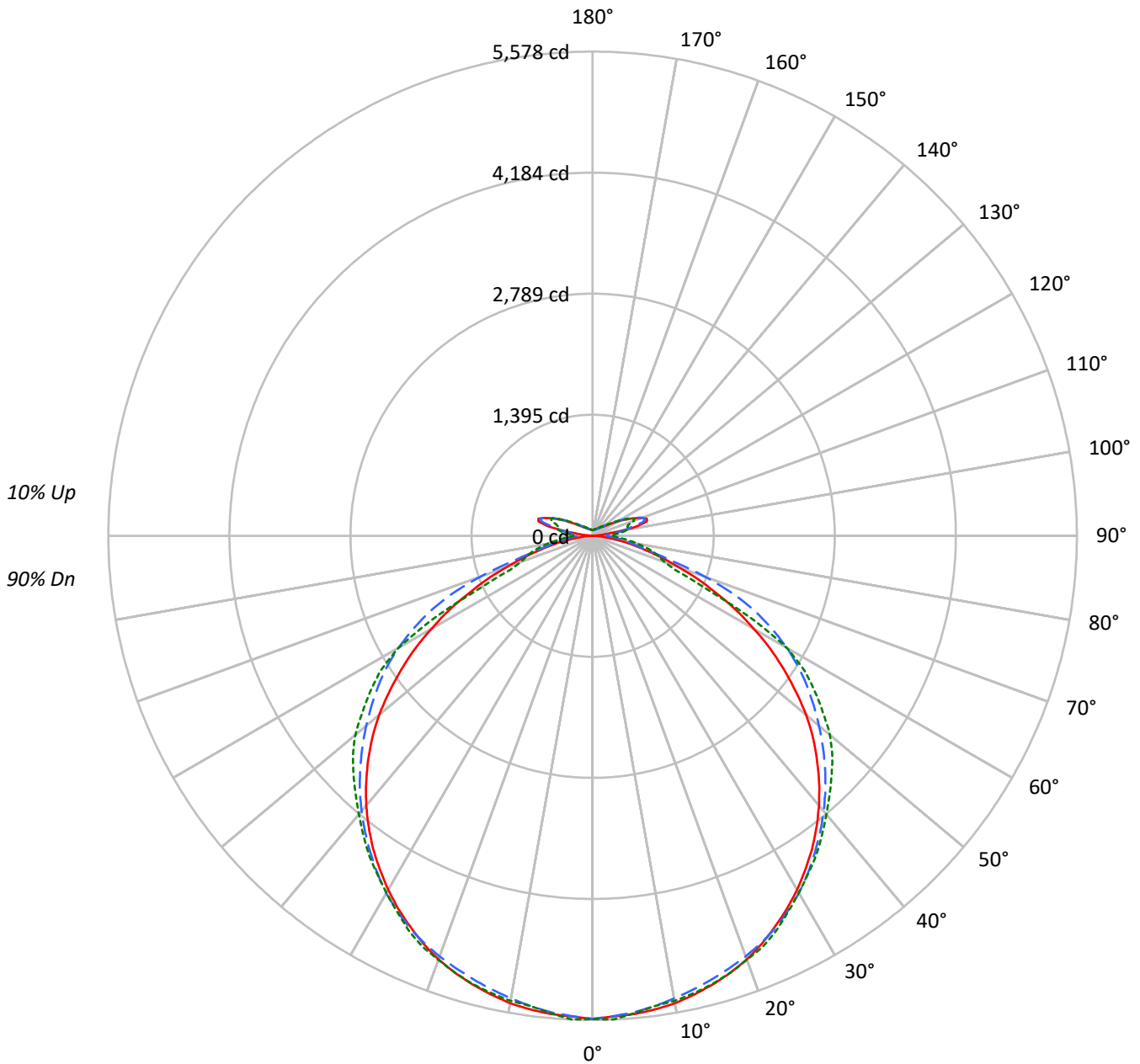
Lumens per Lamp: N/A  
Luminaire Lumens: 17288.8 lumens  
Efficiency: N/A  
Efficacy: 149.9 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')  
CIE Type: Semi-Direct

Input Watts (W): 115.3  
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	117	117	117	117	113	113	113	113	106	106	106	99	99	99	93	93	93	90																			
1	107	102	98	94	103	99	95	92	93	90	87	87	85	83	82	80	79	76																			
2	97	89	83	77	94	87	81	76	82	77	72	77	73	69	72	69	66	64																			
3	89	79	71	64	86	76	69	63	72	66	61	68	63	59	64	60	56	54																			
4	81	70	61	55	78	68	60	54	64	57	52	60	55	50	57	52	48	46																			
5	75	62	53	47	72	61	52	46	57	50	45	54	48	43	51	46	42	40																			
6	69	56	47	41	66	54	46	40	52	45	39	49	43	38	47	41	37	35																			
7	64	51	42	36	62	49	41	36	47	40	35	45	38	34	43	37	33	31																			
8	59	46	38	32	57	45	37	32	43	36	31	41	35	30	39	33	29	27																			
9	55	42	34	29	54	41	34	28	39	33	28	38	32	27	36	30	26	25																			
10	52	39	31	26	50	38	31	26	36	30	25	35	29	25	33	28	24	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	3.0
10°-20°	1505.0	8.7
20°-30°	2298.6	13.3
30°-40°	2789.0	16.1
40°-50°	2923.1	16.9
50°-60°	2648.8	15.3
60°-70°	1775.9	10.3
70°-80°	797.5	4.6
80°-90°	293.3	1.7
90°-100°	236.0	1.4
100°-110°	558.1	3.2
110°-120°	464.8	2.7
120°-130°	224.7	1.3
130°-140°	114.4	0.7
140°-150°	67.1	0.4
150°-160°	40.0	0.2
160°-170°	21.2	0.1
170°-180°	6.5	0.0
0°-30°	4328.5	25.0
0°-40°	7117.4	41.2
0°-60°	12689.4	73.4
0°-90°	15556.1	90.0
90°-120°	1258.9	7.3
90°-150°	1665.0	9.6
90°-180°	1733.0	10.0
0°-180°	17288.8	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°	4	90	166	210	222	9
95°	34	114	206	259	283	105
105°	648	657	590	439	412	615
115°	452	461	474	475	476	456
125°	223	234	248	250	249	210
135°	136	139	144	150	152	108
145°	101	104	106	108	109	64
155°	83	85	86	87	86	39
165°	73	74	74	75	75	21
175°	67	67	67	66	66	6
180°	66	66	66	66	66	



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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°	4.3	90.2	165.5	209.7	222.1
92.5°	12.1	81.0	158.8	203.7	216.3
95°	33.8	114.0	205.5	258.7	282.7
97.5°	171.2	219.0	285.0	339.3	356.5
100°	352.0	395.1	373.0	401.4	409.1
102.5°	550.1	568.5	449.4	422.5	419.7
105°	647.5	656.7	590.2	439.0	411.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	529.1	538.2	543.8	537.1	517.1
115°	452.5	460.9	473.7	475.0	475.7
117.5°	386.4	390.6	404.4	407.5	409.9
120°	323.8	330.6	344.6	346.0	345.1
122.5°	271.6	279.4	292.7	294.0	293.1
125°	223.0	234.2	248.4	249.9	249.0
127.5°	190.8	198.6	212.8	214.4	213.4
130°	166.4	173.3	182.6	186.7	187.5
132.5°	150.7	154.2	161.7	165.8	167.5
135°	135.9	139.4	144.5	150.2	151.9
137.5°	125.5	128.1	131.5	137.3	138.9
140°	115.9	118.5	120.2	125.2	126.9
142.5°	107.2	110.7	112.4	115.7	117.4
145°	101.1	103.7	106.3	108.0	108.8
147.5°	95.9	97.6	99.4	101.1	101.9
150°	90.7	92.4	94.2	95.0	95.9
152.5°	87.2	88.1	89.8	90.7	90.7
155°	82.9	85.4	86.2	87.1	86.3
157.5°	80.2	81.9	82.8	83.6	83.6
160°	77.6	78.4	79.3	80.2	80.2
162.5°	75.8	75.8	76.7	77.6	77.6
165°	73.2	74.1	74.1	74.9	74.9
167.5°	71.5	72.3	72.3	72.3	73.2
170°	69.7	69.7	70.6	69.8	69.8
172.5°	68.0	68.9	68.9	68.1	68.1
175°	67.1	67.1	67.2	66.3	66.3
177.5°	67.0	67.1	66.3	65.5	64.7
180°	66.3	66.3	66.3	66.3	66.3



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	654.3	665.6	639.4	513.5	439.5
110°	600.4	615.4	609.5	564.5	506.1



(END OF REPORT)