

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: P828594

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

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P828594  
REPORT IS A COMBINATION OF REPORTS P826060 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-MCL-UNV-L950-CD-UPL12  
Description:  
Light Source: -  
Ballast/Driver: -

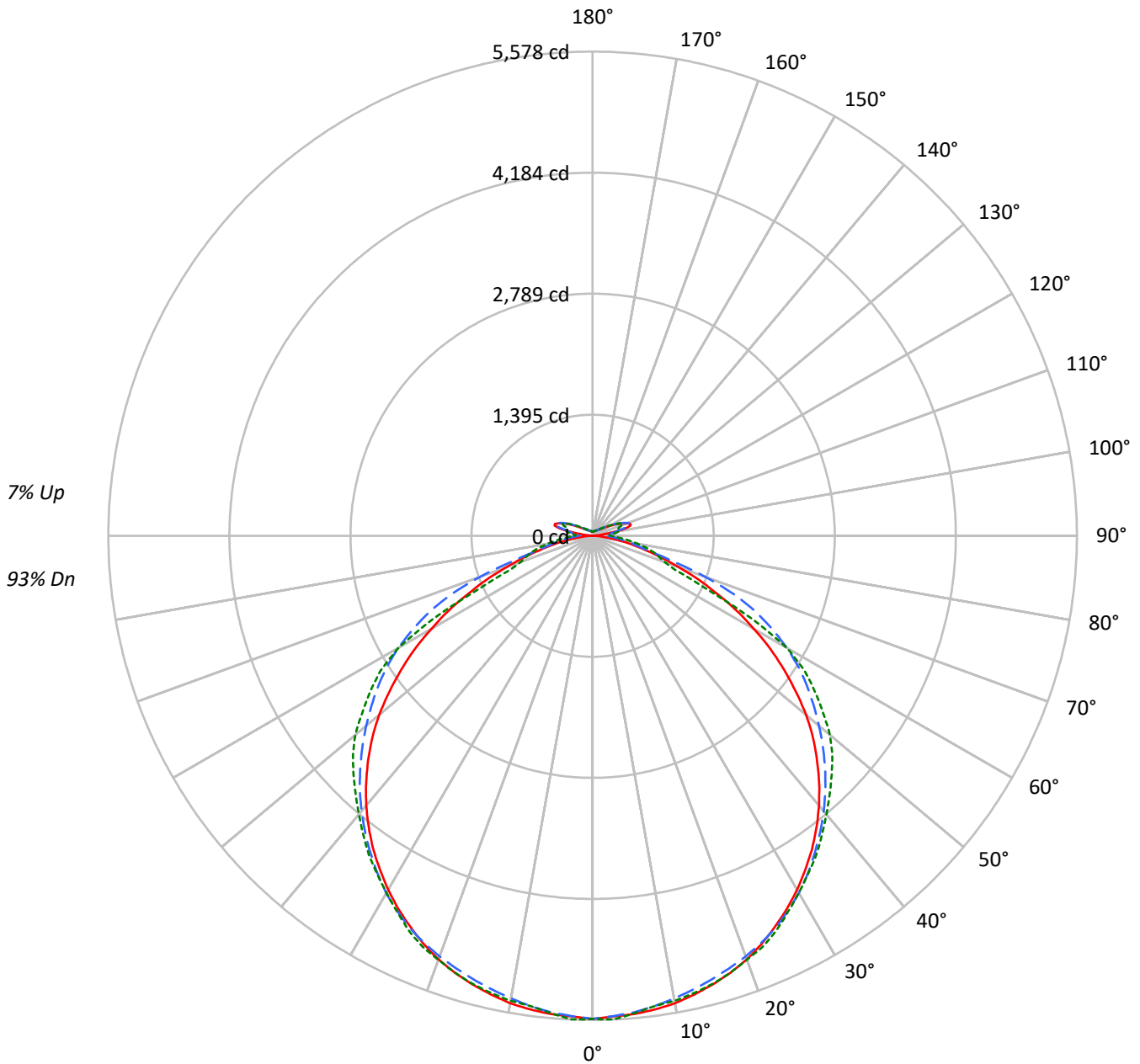
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16815.4 lumens  
Efficiency: N/A  
Efficacy: 150.9 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: 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	95	95	95	93																			
1	107	103	99	95	104	100	96	93	94	91	88	89	87	84	84	82	81	78																			
2	98	90	83	78	95	87	81	76	83	78	73	78	74	71	74	71	68	65																			
3	89	79	71	65	86	77	70	64	73	67	62	69	64	60	66	61	58	55																			
4	82	70	62	55	79	68	60	54	65	58	53	62	56	51	59	54	50	47																			
5	75	63	54	47	73	61	53	47	58	51	45	55	49	44	53	47	43	41																			
6	69	56	48	41	67	55	47	41	52	45	40	50	44	39	48	42	38	36																			
7	64	51	42	36	62	50	42	36	48	40	35	46	39	34	44	38	34	32																			
8	60	46	38	32	58	45	37	32	43	36	31	42	35	31	40	34	30	28																			
9	56	43	34	29	54	42	34	29	40	33	28	38	32	28	37	31	27	25																			
10	52	39	31	26	51	38	31	26	37	30	26	36	29	25	34	29	25	23																			

**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	3.1
10°-20°	1505.0	9.0
20°-30°	2298.6	13.7
30°-40°	2789.0	16.6
40°-50°	2923.1	17.4
50°-60°	2648.8	15.8
60°-70°	1775.9	10.6
70°-80°	797.5	4.7
80°-90°	292.1	1.7
90°-100°	190.6	1.1
100°-110°	401.0	2.4
110°-120°	329.7	2.0
120°-130°	159.5	0.9
130°-140°	81.9	0.5
140°-150°	48.4	0.3
150°-160°	29.1	0.2
160°-170°	15.6	0.1
170°-180°	4.8	0.0
0°-30°	4328.5	25.7
0°-40°	7117.4	42.3
0°-60°	12689.4	75.5
0°-90°	15554.9	92.5
90°-120°	921.3	5.5
90°-150°	1211.1	7.2
90°-180°	1260.0	7.5
0°-180°	16815.4	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°	3	84	157	198	209	8
95°	22	93	168	214	233	72
105°	453	463	425	324	305	429
115°	319	323	337	341	337	319
125°	159	166	177	178	180	148
135°	96	99	104	108	109	76
145°	72	75	76	78	79	46
155°	60	62	63	64	63	28
165°	54	54	55	55	55	15
175°	50	50	49	48	48	5
180°	48	48	48	48	48	



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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°	3.4	84.1	156.8	197.5	209.1
92.5°	8.6	72.3	144.1	184.6	194.6
95°	22.5	93.1	168.2	214.3	233.2
97.5°	119.0	161.6	222.4	264.6	276.5
100°	242.4	286.4	280.0	303.2	310.0
102.5°	384.9	399.0	329.4	314.7	312.7
105°	452.7	462.8	425.0	324.2	304.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	369.1	377.3	390.8	384.1	371.0
115°	319.4	322.7	337.2	341.1	337.4
117.5°	269.0	274.1	288.7	291.0	290.8
120°	226.4	232.4	244.7	245.2	246.0
122.5°	191.6	196.0	207.4	208.8	210.5
125°	158.7	165.5	177.1	177.7	179.5
127.5°	134.2	139.5	152.0	153.5	154.3
130°	117.7	122.0	130.4	134.5	134.5
132.5°	106.3	109.8	115.6	119.7	120.6
135°	95.9	99.4	103.6	108.5	109.3
137.5°	89.8	91.6	94.2	99.0	100.7
140°	82.9	85.5	86.3	90.4	91.3
142.5°	76.8	79.4	80.2	83.6	85.2
145°	72.4	75.0	75.9	77.6	79.2
147.5°	68.9	70.7	72.4	72.4	74.1
150°	66.3	67.2	68.1	68.9	68.9
152.5°	62.9	63.7	64.6	65.5	65.5
155°	60.3	61.9	62.8	63.6	62.9
157.5°	57.6	60.2	60.2	61.0	61.0
160°	55.9	57.6	58.4	58.4	58.4
162.5°	54.9	55.8	55.8	56.7	56.7
165°	54.1	54.1	54.9	54.9	54.9
167.5°	52.3	53.1	53.2	53.2	53.2
170°	51.5	51.5	51.5	51.6	51.6
172.5°	50.6	50.6	50.6	49.8	49.8
175°	49.7	49.7	48.9	48.1	48.1
177.5°	49.6	49.7	48.9	48.1	47.3
180°	48.1	48.1	48.1	48.1	48.1



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	456.1	469.2	457.7	371.8	317.8
110°	418.7	432.8	433.9	405.4	362.6



(END OF REPORT)