

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: P828608

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

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P828608  
REPORT IS A COMBINATION OF REPORTS P826232 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-W-UNV-L950-CD-UPL24  
Description:  
Light Source: -  
Ballast/Driver: -

**Summary**

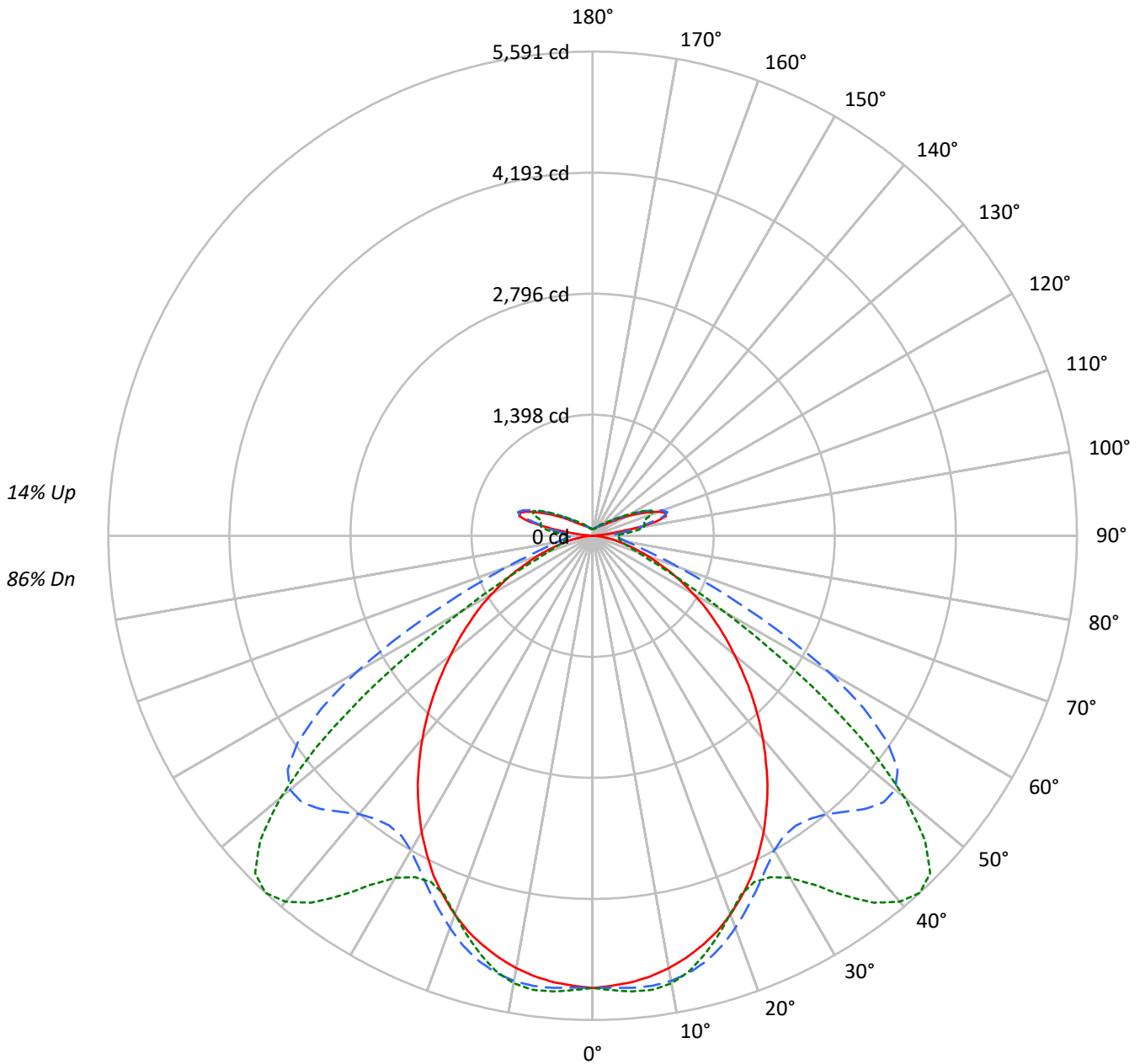
Lumens per Lamp: N/A  
Luminaire Lumens: 17740.4 lumens  
Efficiency: N/A  
Efficacy: 147.3 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')  
CIE Type: Semi-Direct

Input Watts (W): 120.4  
Input Voltage (V): NR  
Input Current (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	116	116	116	116	111	111	111	111	103	103	103	96	96	96	89	89	89	86																			
1	106	102	97	94	102	98	94	91	91	88	86	85	83	81	79	78	76	73																			
2	97	89	82	77	93	86	80	75	80	75	71	75	71	68	70	67	64	61																			
3	88	78	70	64	85	76	68	63	71	65	60	66	61	57	62	58	54	52																			
4	81	69	61	54	77	67	59	53	63	56	51	59	53	49	55	51	47	44																			
5	74	62	53	46	71	60	52	46	56	49	44	53	47	42	49	44	40	38																			
6	68	55	47	40	65	54	45	40	50	43	38	47	41	37	45	39	35	33																			
7	63	50	41	35	61	48	40	35	46	39	34	43	37	32	41	35	31	29																			
8	59	45	37	31	56	44	36	31	42	35	30	39	33	29	37	32	28	26																			
9	55	41	33	28	52	40	33	27	38	31	27	36	30	26	34	29	25	23																			
10	51	38	30	25	49	37	30	25	35	29	24	33	27	23	32	26	23	21																			

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

	0°	45°	90°
0°	8919	8919	8919
5°	8793	8907	9021
10°	8641	8893	9032
15°	8430	8746	8742
20°	8158	8445	8314
25°	7810	8082	8147
30°	7363	7811	8767
35°	6861	7955	10259
40°	6288	8616	11860
45°	5693	9773	12749
50°	5077	10806	11863
55°	4498	10793	9065
60°	3910	9130	5542
65°	3296	6304	3357
70°	2613	4075	2424
75°	1916	2920	2247
80°	1293	2563	2535
85°	773	2815	4008



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	499.0	2.8
10°-20°	1413.1	8.0
20°-30°	2067.9	11.7
30°-40°	2685.6	15.1
40°-50°	3279.4	18.5
50°-60°	2888.0	16.3
60°-70°	1505.0	8.5
70°-80°	645.4	3.6
80°-90°	315.3	1.8
90°-100°	347.2	2.0
100°-110°	790.3	4.5
110°-120°	653.8	3.7
120°-130°	317.1	1.8
130°-140°	158.7	0.9
140°-150°	90.5	0.5
150°-160°	51.1	0.3
160°-170°	25.2	0.1
170°-180°	7.7	0.0
0°-30°	3980.0	22.4
0°-40°	6665.6	37.6
0°-60°	12833.0	72.3
0°-90°	15298.7	86.2
90°-120°	1791.4	10.1
90°-150°	2357.7	13.3
90°-180°	2442.0	13.8
0°-180°	17740.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5222	5222	5222	5222	5222	
5°	5174	5213	5241	5288	5282	491
15°	4895	5033	5081	5043	5002	1378
25°	4338	4570	4492	4408	4412	1991
35°	3521	3893	4088	4767	5072	2195
45°	2592	3262	4458	5398	5511	1999
55°	1726	2857	4152	3640	3236	1549
65°	990	1980	1901	1057	909	980
75°	399	926	611	418	397	435
85°	84	330	311	304	308	94
90°	6	149	246	288	300	9
95°	48	166	313	390	422	145
105°	877	902	840	650	610	832
115°	608	630	673	686	683	614
125°	302	321	354	364	363	282
135°	181	184	202	216	218	143
145°	135	136	140	148	151	86
155°	110	112	111	112	112	50
165°	87	88	89	89	89	25
175°	78	79	79	80	80	8
180°	78	78	78	78	78	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5222.1	5222.1	5222.1	5222.1	5222.1
2.5°	5199.6	5222.1	5223.3	5254.8	5251.4
5°	5173.7	5213.2	5241.4	5287.5	5281.9
7.5°	5130.9	5192.8	5242.5	5293.2	5288.7
10°	5070.1	5154.6	5219.9	5261.6	5248.1
12.5°	4991.2	5102.8	5166.9	5176.0	5150.1
15°	4895.4	5032.9	5081.3	5043.0	5002.4
17.5°	4787.2	4948.4	4965.3	4881.9	4831.2
20°	4652.0	4835.7	4818.8	4703.9	4647.5
22.5°	4502.2	4711.8	4657.7	4537.1	4483.0
25°	4337.7	4569.8	4492.1	4407.6	4412.1
27.5°	4145.1	4408.7	4333.2	4371.6	4443.6
30°	3949.0	4239.7	4193.5	4416.6	4558.6
32.5°	3733.8	4066.2	4107.9	4548.4	4780.5
35°	3520.9	3892.7	4087.6	4767.0	5072.3
37.5°	3285.4	3717.0	4120.3	5019.4	5339.3
40°	3056.7	3545.7	4194.6	5245.8	5516.2
42.5°	2823.4	3392.4	4319.7	5379.9	5590.6
45°	2592.5	3261.7	4458.3	5397.9	5510.6
47.5°	2361.5	3151.3	4554.1	5254.8	5203.0
50°	2138.4	3053.3	4560.8	4911.2	4699.3
52.5°	1930.0	2963.2	4436.9	4363.7	4034.7
55°	1726.1	2857.3	4151.9	3640.3	3235.8
57.5°	1540.1	2710.8	3712.4	2862.9	2421.2
60°	1343.0	2512.5	3144.6	2094.5	1746.4
62.5°	1161.6	2265.8	2508.0	1457.9	1255.1
65°	990.4	1979.6	1900.7	1056.8	909.3
67.5°	808.9	1683.2	1402.8	770.7	676.0
70°	667.0	1408.3	1044.5	599.4	544.2
72.5°	521.7	1147.0	780.8	486.7	456.3
75°	398.8	926.1	610.7	418.0	396.6
77.5°	294.0	732.3	491.2	369.5	349.3
80°	206.1	576.9	411.2	330.1	322.2
82.5°	138.6	446.2	350.4	314.3	315.4
85°	84.5	330.1	311.0	304.2	307.6
87.5°	40.6	234.3	267.0	277.2	280.6
90°	5.5	149.0	245.9	288.2	300.0
92.5°	14.8	130.4	242.8	298.2	315.2
95°	48.3	166.3	312.9	389.8	421.5
97.5°	236.1	310.5	418.6	505.3	537.3
100°	483.3	559.1	541.9	593.6	604.8
102.5°	745.0	781.2	654.5	623.7	619.0
105°	876.6	902.0	839.7	649.8	609.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	709.3	740.0	773.4	769.2	743.6
115°	608.4	630.3	673.1	686.0	683.0
117.5°	522.6	535.8	576.5	589.1	591.1
120°	433.9	452.5	493.0	502.2	498.1
122.5°	365.3	381.3	416.9	427.6	423.5
125°	301.8	320.8	354.0	364.3	362.8
127.5°	255.4	267.9	301.3	313.4	313.7
130°	223.3	230.2	259.2	271.4	274.5
132.5°	198.9	205.0	226.8	241.6	243.0
135°	180.7	184.1	201.5	215.6	218.5
137.5°	165.9	168.5	181.5	195.5	197.7
140°	152.8	156.3	165.2	178.1	180.1
142.5°	142.7	145.0	151.9	162.6	163.7
145°	135.1	136.3	140.1	147.6	150.8
147.5°	127.3	129.6	131.4	137.6	138.8
150°	121.2	122.9	123.3	126.4	129.5
152.5°	115.1	116.9	117.2	118.1	120.3
155°	109.9	111.6	111.1	112.0	112.0
157.5°	96.5	98.2	100.0	100.9	100.9
160°	93.0	93.9	95.6	96.5	96.5
162.5°	89.6	90.4	91.3	92.2	92.2
165°	86.9	87.8	88.7	88.7	88.7
167.5°	84.3	84.3	85.2	86.1	86.1
170°	81.7	82.6	82.6	83.5	83.5
172.5°	80.0	80.9	80.9	80.9	81.7
175°	78.2	79.1	79.1	80.0	80.0
177.5°	78.2	78.2	78.2	78.2	78.2
180°	78.2	78.2	78.2	78.2	78.2



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	881.2	914.0	905.9	747.6	643.8
110°	813.4	846.0	859.8	810.8	727.9



(END OF REPORT)