

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: P828601

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

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P828601  
REPORT IS A COMBINATION OF REPORTS P826158 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-N-UNV-L950-CD-UPL18  
Description:  
Light Source: -  
Ballast/Driver: -

**Summary**

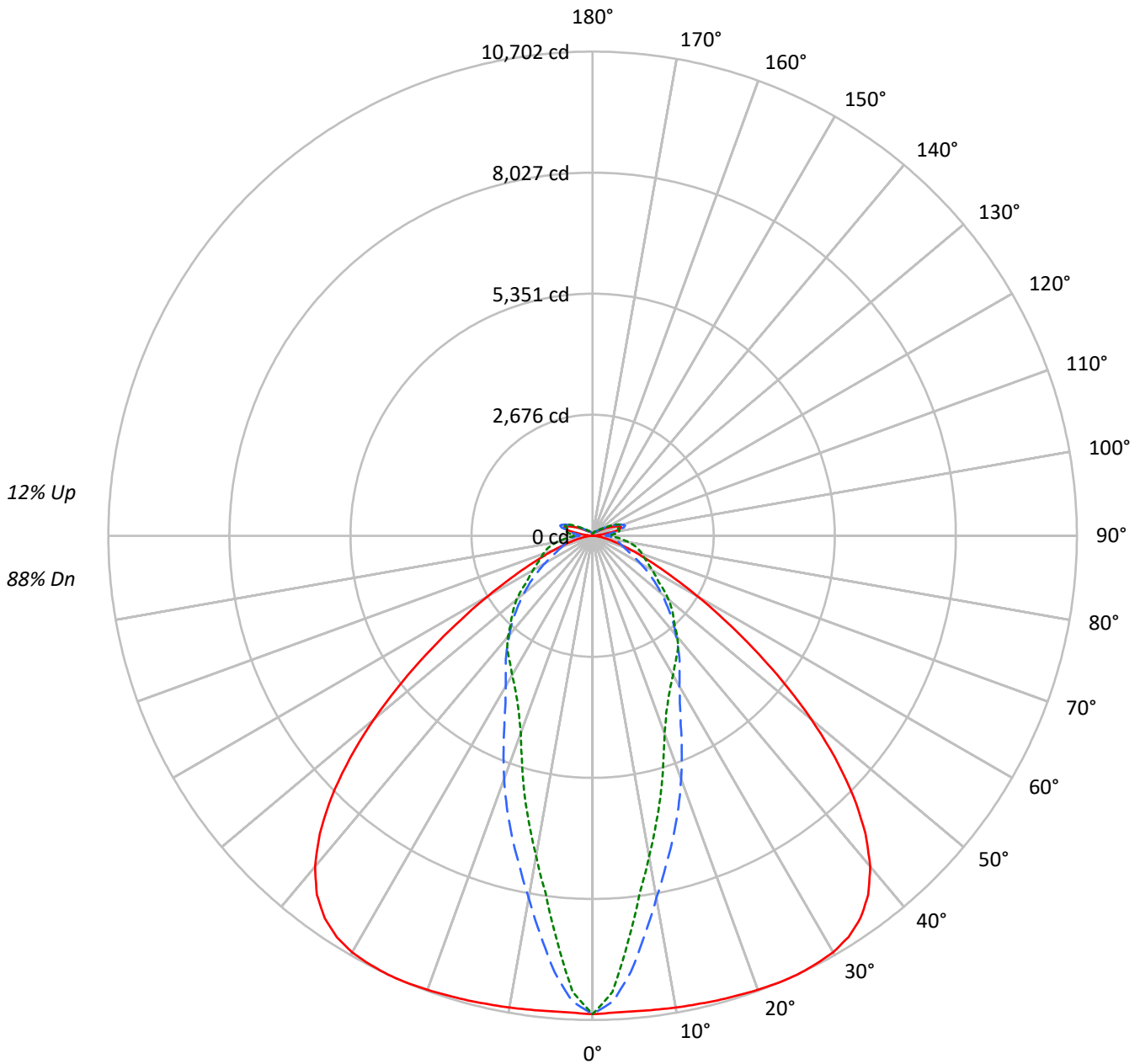
Lumens per Lamp: N/A  
Luminaire Lumens: 17160.1 lumens  
Efficiency: N/A  
Efficacy: 148.8 lumens/watt  
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')  
CIE Type: Semi-Direct

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	116	116	116	116	112	112	112	112	104	104	104	97	97	97	91	91	91	88																			
1	107	102	98	95	103	99	95	92	92	90	87	87	84	82	81	79	78	75																			
2	98	91	85	79	94	88	82	77	82	78	74	77	74	70	73	70	67	65																			
3	90	81	74	68	87	78	72	66	74	68	64	70	65	61	66	62	59	56																			
4	84	73	65	59	80	71	63	58	67	61	56	63	58	54	60	55	52	49																			
5	77	66	58	52	75	64	56	51	61	54	49	57	52	48	55	50	46	44																			
6	72	60	52	46	69	58	51	45	55	49	44	53	47	43	50	45	41	39																			
7	67	55	47	41	65	53	46	41	51	44	40	49	43	39	46	41	37	35																			
8	63	50	43	37	61	49	42	37	47	41	36	45	39	35	43	38	34	32																			
9	59	47	39	34	57	46	39	34	44	37	33	42	36	32	40	35	31	30																			
10	56	43	36	31	54	42	36	31	41	34	30	39	33	30	37	32	29	27																			

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

	0°	45°	90°
0°	18058	18058	18058
5°	17933	16445	15364
10°	18048	13852	12380
15°	18309	11847	10212
20°	18727	10017	8302
25°	19270	8291	7313
30°	19822	7143	6833
35°	20107	6510	6551
40°	19626	5880	6259
45°	17913	5314	5841
50°	14974	4695	5533
55°	11253	4112	4978
60°	7778	3526	4832
65°	5140	3037	4815
70°	3425	2850	5177
75°	2292	2939	5737
80°	1484	3256	6279
85°	764	4072	7486



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	890.0	5.2
10°-20°	2093.6	12.2
20°-30°	2624.3	15.3
30°-40°	2784.7	16.2
40°-50°	2517.8	14.7
50°-60°	1825.6	10.6
60°-70°	1145.6	6.7
70°-80°	758.2	4.4
80°-90°	440.7	2.6
90°-100°	360.5	2.1
100°-110°	663.1	3.9
110°-120°	534.3	3.1
120°-130°	256.9	1.5
130°-140°	126.6	0.7
140°-150°	72.8	0.4
150°-160°	40.9	0.2
160°-170°	18.7	0.1
170°-180°	5.7	0.0
0°-30°	5608.0	32.7
0°-40°	8392.7	48.9
0°-60°	12736.1	74.2
0°-90°	15080.6	87.9
90°-120°	1557.8	9.1
90°-150°	2014.2	11.7
90°-180°	2080.0	12.1
0°-180°	17160.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	10572	10572	10572	10572	10572	
5°	10551	10281	9677	9228	8996	###
15°	10632	8666	6883	6121	5843	3015
25°	10702	6700	4609	4090	3960	4944
35°	10319	4455	3345	3240	3239	6415
45°	8158	2821	2424	2482	2525	6214
55°	4319	1749	1582	1716	1777	3902
65°	1545	1014	916	1173	1304	1607
75°	477	546	615	955	1012	532
85°	84	226	450	626	574	100
90°	4	116	290	406	414	8
95°	37	138	342	457	492	108
105°	652	682	711	605	581	619
115°	457	482	563	586	588	461
125°	229	244	291	305	303	215
135°	139	143	161	177	178	110
145°	106	109	113	122	121	67
155°	87	92	94	95	93	39
165°	64	65	65	66	66	18
175°	58	58	59	59	59	6
180°	58	58	58	58	58	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	10572.4	10572.4	10572.4	10572.4	10572.4
2.5°	10550.4	10489.9	10301.8	10187.1	10090.5
5°	10551.3	10280.7	9676.9	9228.2	8995.7
7.5°	10566.4	9964.7	8877.0	8221.9	7966.4
10°	10589.6	9573.3	8130.3	7432.0	7193.5
12.5°	10606.7	9132.6	7473.3	6755.8	6494.2
15°	10631.8	8665.7	6882.6	6120.9	5843.2
17.5°	10655.0	8226.0	6299.0	5503.1	5194.1
20°	10678.2	7752.1	5715.4	4895.3	4640.7
22.5°	10700.3	7251.9	5145.9	4423.4	4249.3
25°	10702.3	6700.5	4608.6	4090.3	3960.5
27.5°	10676.2	6129.0	4172.8	3811.6	3731.1
30°	10630.9	5574.5	3834.8	3610.4	3553.0
32.5°	10518.2	5009.0	3573.2	3416.1	3382.9
35°	10318.9	4454.6	3344.8	3240.1	3239.0
37.5°	10005.0	3962.6	3097.2	3079.1	3101.2
40°	9541.1	3531.9	2862.7	2911.1	2911.1
42.5°	8922.2	3157.6	2650.4	2699.7	2686.7
45°	8157.6	2821.4	2424.0	2482.4	2524.6
47.5°	7271.1	2525.6	2192.6	2305.2	2363.7
50°	6307.0	2243.9	1981.3	2125.2	2191.6
52.5°	5296.8	1983.3	1775.0	1940.0	1993.4
55°	4318.8	1748.8	1581.8	1715.6	1777.0
57.5°	3433.3	1525.4	1392.6	1519.4	1646.2
60°	2671.5	1333.3	1214.5	1395.6	1522.4
62.5°	2040.7	1162.2	1047.5	1279.9	1406.7
65°	1544.6	1014.3	915.7	1173.2	1304.1
67.5°	1164.2	886.5	813.0	1095.8	1223.6
70°	874.4	762.8	730.5	1047.5	1162.2
72.5°	646.0	649.0	665.1	1005.3	1092.8
75°	477.0	546.4	614.8	954.9	1012.3
77.5°	341.1	452.8	569.5	894.6	914.7
80°	236.5	369.3	522.3	815.0	798.0
82.5°	147.9	295.9	479.9	727.5	680.3
85°	83.6	226.4	449.8	625.9	574.5
87.5°	37.2	169.0	393.4	488.0	455.8
90°	3.5	116.3	290.1	406.4	413.8
92.5°	13.3	107.2	288.3	402.1	419.2
95°	37.0	137.7	341.6	457.2	492.1
97.5°	174.6	243.5	422.3	535.0	561.0
100°	355.5	419.2	506.0	589.2	604.5
102.5°	553.9	594.4	576.9	599.0	601.8
105°	652.3	682.4	711.3	604.8	581.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	533.5	561.1	642.3	661.6	644.8
115°	457.1	482.5	563.1	586.0	588.2
117.5°	392.0	409.7	482.9	506.4	508.2
120°	329.4	347.6	411.4	429.9	428.2
122.5°	277.3	293.1	347.8	362.3	359.5
125°	229.4	243.9	291.3	305.4	302.7
127.5°	195.4	205.2	246.2	259.4	256.7
130°	171.0	179.1	208.5	223.4	224.3
132.5°	153.5	158.2	181.5	196.4	198.1
135°	138.8	143.4	160.8	176.6	177.5
137.5°	127.5	133.0	144.6	159.4	160.2
140°	117.9	122.5	131.1	144.9	145.8
142.5°	111.0	114.7	121.3	132.2	133.1
145°	106.0	108.7	113.4	122.2	121.3
147.5°	99.9	103.6	106.4	113.1	112.2
150°	94.7	99.5	101.2	105.0	104.9
152.5°	91.2	95.1	96.9	99.7	98.7
155°	86.9	91.6	93.5	95.4	93.4
157.5°	72.2	73.0	73.9	74.8	74.8
160°	69.6	69.6	70.4	71.3	71.3
162.5°	66.9	66.9	67.8	68.7	68.7
165°	64.3	65.2	65.2	66.1	66.1
167.5°	62.6	62.6	63.5	63.5	64.3
170°	60.9	60.9	61.7	61.7	61.7
172.5°	59.1	60.0	60.0	60.0	60.0
175°	58.3	58.3	59.1	59.1	59.1
177.5°	57.4	58.3	58.3	58.3	58.3
180°	58.3	58.3	58.3	58.3	58.3



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	658.4	691.6	752.9	664.3	595.7
110°	604.6	639.7	716.3	701.4	648.4



(END OF REPORT)