

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: P828602

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

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P828602  
REPORT IS A COMBINATION OF REPORTS P826230 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-N-UNV-L950-CD-UPL24  
Description:  
Light Source: -  
Ballast/Driver: -

**Summary**

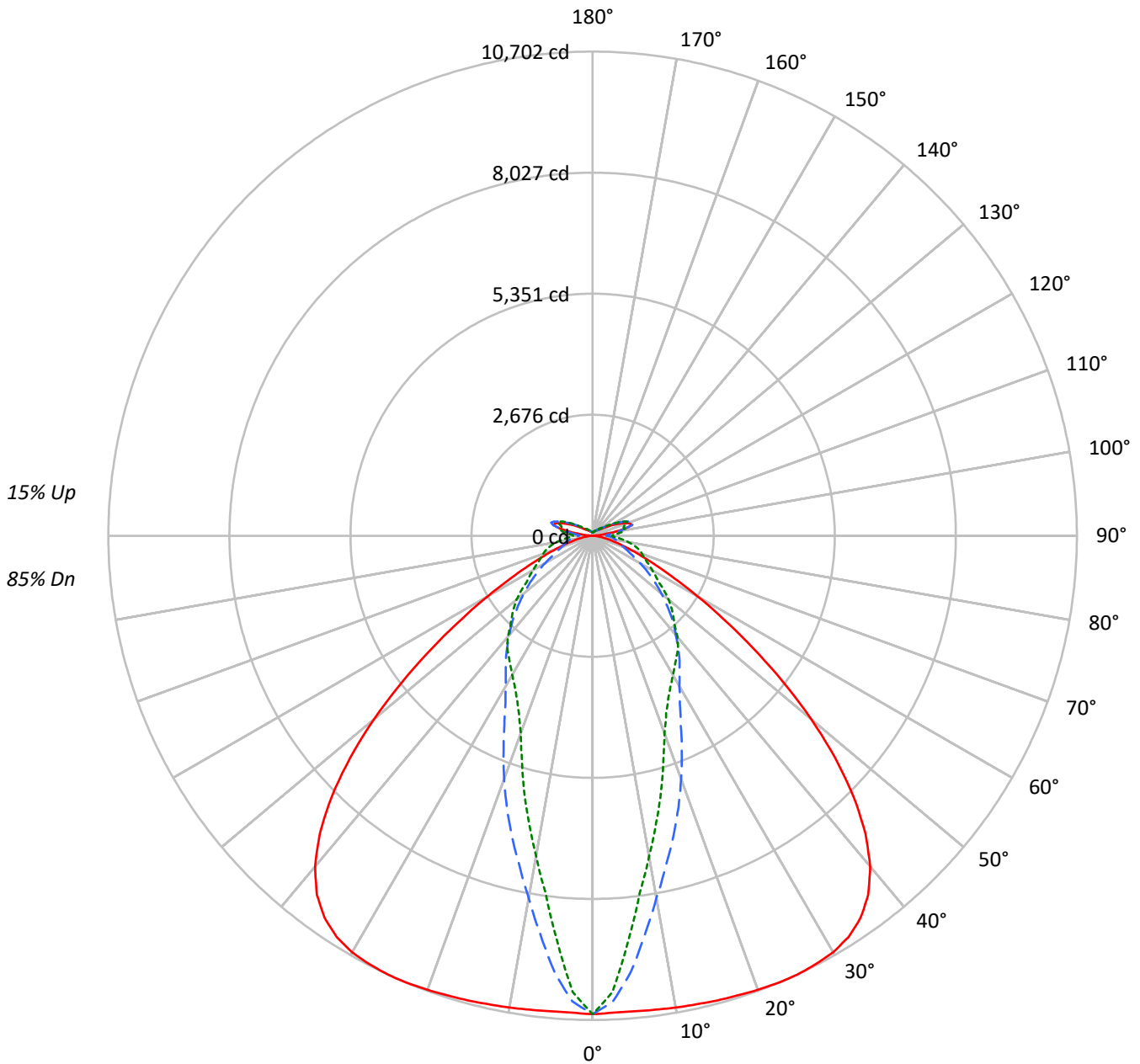
Lumens per Lamp: N/A  
Luminaire Lumens: 17708.2 lumens  
Efficiency: N/A  
Efficacy: 147.1 lumens/watt  
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')  
CIE Type: Semi-Direct

Input Watts (W): 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				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	111	111	111	111	103	103	103	95	95	95	88	88	88	85				
1	106	102	98	94	102	98	95	91	91	88	86	85	83	81	79	77	76	73				
2	98	90	84	79	94	87	81	77	81	77	73	76	72	69	71	68	65	63				
3	90	80	73	67	86	78	71	66	73	67	63	68	64	60	64	60	57	54				
4	83	72	64	58	80	70	63	57	66	60	55	62	57	53	58	54	50	48				
5	77	65	57	51	74	63	56	50	60	53	48	56	51	47	53	48	45	42				
6	71	59	51	45	69	58	50	45	55	48	43	52	46	42	49	44	40	38				
7	67	54	46	41	64	53	45	40	50	44	39	47	42	38	45	40	36	34				
8	62	50	42	37	60	49	41	36	46	40	35	44	38	34	42	37	33	31				
9	59	46	39	34	56	45	38	33	43	37	32	41	35	31	39	34	30	29				
10	55	43	36	31	53	42	35	30	40	34	30	38	33	29	36	32	28	26				

**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	5.0
10°-20°	2093.6	11.8
20°-30°	2624.3	14.8
30°-40°	2784.7	15.7
40°-50°	2517.8	14.2
50°-60°	1825.6	10.3
60°-70°	1145.6	6.5
70°-80°	758.2	4.3
80°-90°	442.1	2.5
90°-100°	413.2	2.3
100°-110°	845.9	4.8
110°-120°	690.5	3.9
120°-130°	331.6	1.9
130°-140°	164.2	0.9
140°-150°	94.5	0.5
150°-160°	53.4	0.3
160°-170°	25.2	0.1
170°-180°	7.7	0.0
0°-30°	5608.0	31.7
0°-40°	8392.7	47.4
0°-60°	12736.1	71.9
0°-90°	15082.0	85.2
90°-120°	1949.5	11.0
90°-150°	2539.8	14.3
90°-180°	2626.0	14.8
0°-180°	17708.2	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	124	301	421	430	9
95°	50	163	379	510	550	147
105°	880	907	901	744	707	836
115°	613	639	720	747	745	618
125°	306	326	373	387	384	286
135°	184	190	209	224	226	145
145°	138	143	147	156	156	87
155°	113	118	120	122	120	51
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°	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°	4.3	124.2	301.4	421.2	430.3
92.5°	16.8	117.6	303.1	424.7	446.1
95°	50.1	162.9	379.0	510.2	550.4
97.5°	238.9	311.3	487.5	619.3	660.1
100°	485.9	561.8	609.5	701.4	719.3
102.5°	748.7	785.6	719.5	724.2	725.3
105°	880.1	906.7	900.8	743.9	707.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	712.6	747.1	824.8	838.1	815.2
115°	612.7	639.0	720.4	746.9	744.7
117.5°	526.8	542.7	617.7	642.0	643.8
120°	438.1	459.8	527.9	544.7	539.5
122.5°	369.4	387.9	443.4	458.8	452.5
125°	306.0	325.6	373.0	387.2	383.6
127.5°	259.7	273.0	314.9	329.9	328.0
130°	227.5	236.5	269.4	284.3	285.2
132.5°	202.2	210.3	234.5	252.1	251.2
135°	184.0	189.5	208.6	224.4	226.1
137.5°	169.2	174.8	188.1	203.7	203.7
140°	156.2	161.6	172.0	185.8	186.7
142.5°	145.8	150.3	157.8	169.6	169.6
145°	138.2	142.6	147.3	156.2	156.1
147.5°	130.3	135.8	138.6	145.3	144.3
150°	124.2	129.0	131.6	135.5	135.4
152.5°	118.2	122.9	125.5	128.4	127.4
155°	112.9	117.7	120.4	122.3	120.3
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°	883.6	920.3	964.1	832.1	733.0
110°	816.8	852.8	916.3	886.6	808.4



(END OF REPORT)