

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: P827698

Luminaire Tested: **OHBL-18HE-MFL-UNV-L930-CD-UPL18**

Issue Date: 5/3/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P827698  
REPORT IS A COMBINATION OF REPORTS P826157 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-MFL-UNV-L930-CD-UPL18  
Description:  
Light Source: -  
Ballast/Driver: -

**Summary**

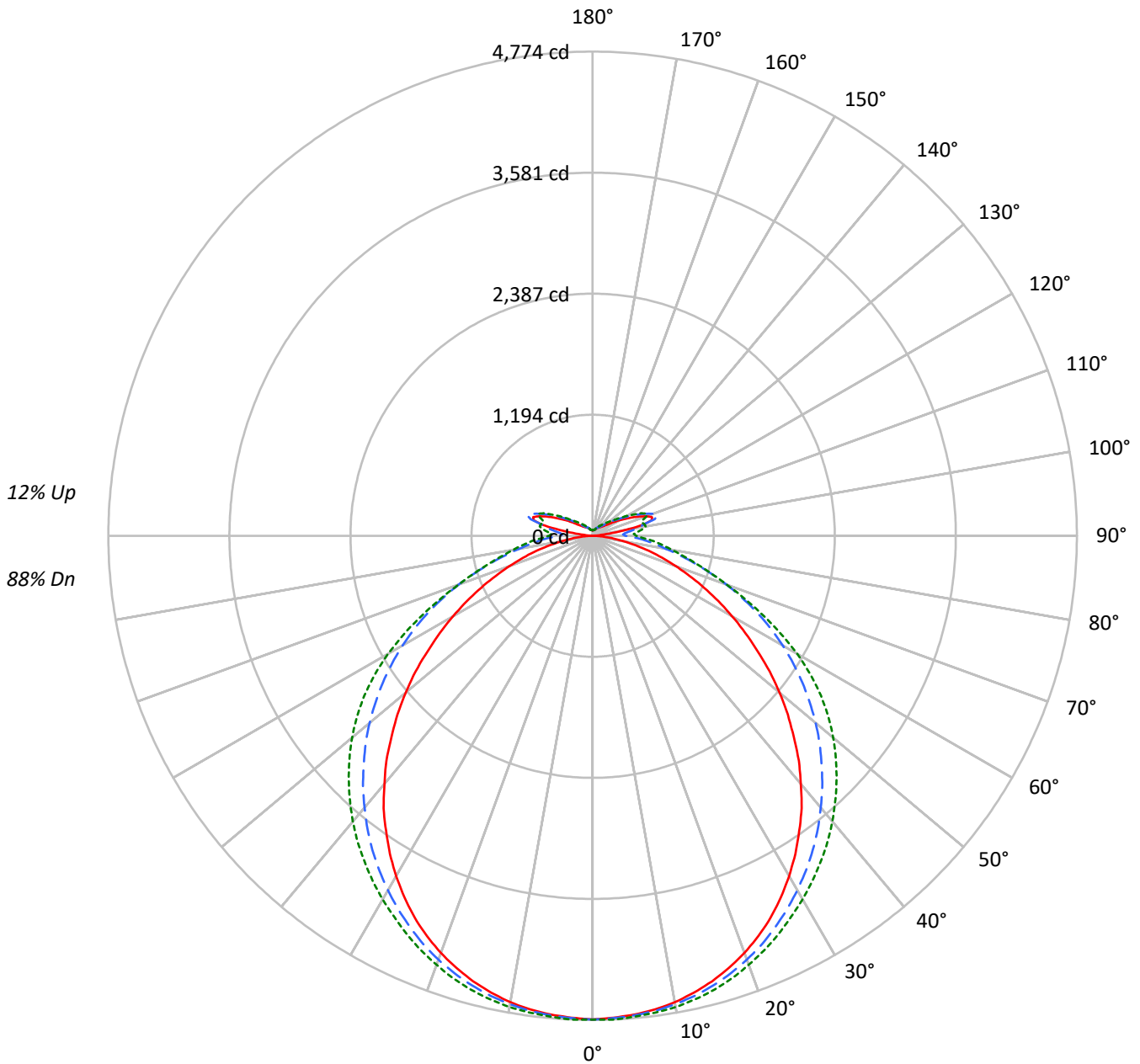
Lumens per Lamp: N/A  
Luminaire Lumens: 15722.0 lumens  
Efficiency: N/A  
Efficacy: 136.4 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')  
CIE Type: Semi-Direct

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	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	105	101	96	92	101	97	93	89	91	87	84	85	82	80	79	77	75	72																											
2	96	87	81	75	92	85	78	73	79	74	69	74	70	66	69	66	63	60																											
3	87	77	69	62	84	74	67	61	69	63	58	65	60	56	61	57	53	50																											
4	80	68	59	52	77	66	58	51	62	55	49	58	52	47	54	50	46	43																											
5	73	61	52	45	70	59	50	44	55	48	43	52	46	41	49	44	40	37																											
6	68	54	46	39	65	53	45	39	50	43	37	47	41	36	44	39	35	32																											
7	63	49	41	35	60	48	40	34	45	38	33	43	37	32	41	35	31	29																											
8	58	45	37	31	56	44	36	30	41	34	29	39	33	28	37	32	28	26																											
9	54	41	33	28	52	40	32	27	38	31	26	36	30	26	34	29	25	23																											
10	51	38	30	25	49	37	30	25	35	29	24	33	28	23	32	27	23	21																											

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

	0°	45°	90°
0°	8147	8147	8147
5°	8055	8066	8129
10°	7960	7991	8120
15°	7832	7903	8099
20°	7675	7795	8052
25°	7479	7661	8006
30°	7222	7517	7961
35°	6920	7363	7931
40°	6565	7186	7906
45°	6154	6993	7867
50°	5709	6799	7815
55°	5174	6561	7695
60°	4626	6281	7391
65°	4032	5924	6845
70°	3393	5470	6260
75°	2743	4945	5954
80°	1956	4555	6237
85°	1089	4692	7818



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	452.0	2.9
10°-20°	1296.6	8.2
20°-30°	1960.9	12.5
30°-40°	2354.1	15.0
40°-50°	2431.4	15.5
50°-60°	2187.5	13.9
60°-70°	1647.8	10.5
70°-80°	995.0	6.3
80°-90°	490.3	3.1
90°-100°	343.2	2.2
100°-110°	597.6	3.8
110°-120°	481.6	3.1
120°-130°	237.1	1.5
130°-140°	119.5	0.8
140°-150°	67.5	0.4
150°-160°	37.3	0.2
160°-170°	17.4	0.1
170°-180°	5.3	0.0
0°-30°	3709.5	23.6
0°-40°	6063.6	38.6
0°-60°	10682.4	67.9
0°-90°	13815.5	87.9
90°-120°	1422.4	9.0
90°-150°	1846.5	11.7
90°-180°	1907.0	12.1
0°-180°	15722.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4770	4770	4770	4770	4770	
5°	4739	4752	4746	4765	4759	450
15°	4548	4570	4591	4630	4634	1282
25°	4154	4199	4258	4325	4336	1910
35°	3551	3634	3783	3898	3921	2220
45°	2803	2944	3190	3364	3400	2164
55°	1986	2191	2524	2714	2747	1780
65°	1212	1459	1786	1875	1854	1204
75°	571	820	1034	1061	1051	609
85°	119	314	518	590	600	138
90°	3	143	324	410	429	10
95°	36	149	326	418	447	102
105°	607	641	634	525	504	576
115°	424	446	498	520	524	428
125°	212	225	265	286	287	198
135°	128	133	151	170	175	101
145°	99	99	103	113	117	62
155°	81	84	84	83	84	36
165°	60	61	61	61	61	17
175°	54	54	55	55	55	5
180°	54	54	54	54	54	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4769.8	4769.8	4769.8	4769.8	4769.8
2.5°	4755.7	4767.5	4760.4	4775.6	4774.4
5°	4739.4	4752.3	4746.5	4765.1	4759.3
7.5°	4711.5	4725.4	4724.2	4745.2	4743.0
10°	4670.6	4685.7	4690.4	4718.4	4718.4
12.5°	4614.5	4634.3	4646.1	4679.9	4681.1
15°	4548.0	4570.2	4591.2	4629.7	4634.3
17.5°	4467.4	4495.5	4524.6	4569.0	4574.8
20°	4376.4	4407.9	4447.6	4494.3	4501.3
22.5°	4271.3	4308.7	4360.1	4414.9	4423.1
25°	4153.5	4199.0	4258.5	4325.0	4335.5
27.5°	4019.2	4071.7	4152.2	4226.9	4236.3
30°	3873.3	3935.1	4035.5	4124.3	4139.4
32.5°	3719.1	3790.4	3914.1	4013.4	4034.4
35°	3551.1	3633.9	3783.4	3897.8	3921.1
37.5°	3385.3	3476.4	3645.7	3776.4	3804.4
40°	3191.5	3304.8	3498.5	3643.3	3677.2
42.5°	3009.4	3132.0	3351.4	3509.1	3541.7
45°	2802.8	2944.0	3190.3	3364.3	3400.5
47.5°	2609.1	2761.9	3035.1	3214.9	3252.2
50°	2404.7	2572.8	2869.3	3057.3	3095.8
52.5°	2200.4	2381.4	2697.7	2892.7	2928.9
55°	1985.7	2191.1	2523.8	2714.1	2746.8
57.5°	1786.0	2003.1	2345.2	2526.1	2546.0
60°	1588.8	1814.1	2163.1	2321.9	2328.9
62.5°	1396.2	1633.2	1976.3	2102.4	2093.0
65°	1211.7	1459.2	1786.0	1874.8	1853.8
67.5°	1034.3	1289.9	1591.1	1648.3	1620.3
70°	866.2	1125.4	1402.0	1431.2	1405.4
72.5°	717.9	968.9	1210.6	1235.1	1216.4
75°	570.8	819.5	1034.3	1061.1	1050.6
77.5°	433.1	674.7	872.0	907.0	909.4
80°	311.7	542.8	730.7	785.6	792.7
82.5°	205.5	421.4	612.9	682.9	693.4
85°	119.1	314.0	518.3	589.5	600.0
87.5°	51.3	226.5	416.8	481.0	493.8
90°	3.2	142.8	324.0	409.9	429.1
92.5°	14.0	128.2	298.9	386.0	405.3
95°	36.5	149.1	326.1	417.5	447.4
97.5°	164.7	242.2	385.0	474.2	497.7
100°	332.0	401.8	453.1	515.9	530.0
102.5°	515.5	561.3	512.9	520.6	523.9
105°	607.1	641.2	634.5	524.6	504.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	496.0	521.4	568.9	586.3	570.8
115°	424.1	446.4	498.1	520.1	524.0
117.5°	363.8	379.0	427.3	451.4	455.7
120°	305.6	320.6	365.8	386.7	389.8
122.5°	257.0	270.1	312.7	332.5	334.3
125°	211.5	224.6	265.3	285.5	287.4
127.5°	179.5	189.2	226.7	246.9	248.9
130°	156.9	163.8	194.2	214.9	219.2
132.5°	141.5	146.3	169.8	189.3	195.6
135°	127.8	132.6	150.6	169.8	175.2
137.5°	117.3	122.1	134.7	152.6	158.0
140°	109.6	113.2	121.4	137.0	142.5
142.5°	103.5	105.9	110.7	124.3	128.6
145°	98.9	99.4	103.0	113.2	116.6
147.5°	93.3	94.9	96.5	102.8	106.4
150°	88.4	91.3	91.7	93.7	98.0
152.5°	85.2	87.2	87.6	87.3	89.6
155°	81.2	84.0	83.6	83.3	84.4
157.5°	67.1	67.9	68.7	69.5	69.5
160°	64.7	64.7	65.5	66.3	66.3
162.5°	62.2	62.2	63.0	63.9	63.9
165°	59.8	60.6	60.6	61.4	61.4
167.5°	58.2	58.2	59.0	59.0	59.8
170°	56.6	56.6	57.4	57.4	57.4
172.5°	55.0	55.8	55.8	55.8	55.8
175°	54.2	54.2	55.0	55.0	55.0
177.5°	53.4	54.2	54.2	54.2	54.2
180°	54.2	54.2	54.2	54.2	54.2



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	612.8	646.7	671.0	582.7	518.2
110°	561.9	597.5	636.3	620.5	570.6



(END OF REPORT)