

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: P827700

Luminaire Tested: **OHBL-18HE-N-UNV-L930-CD-UPL12**

Issue Date: 5/3/2024



**Test Information**

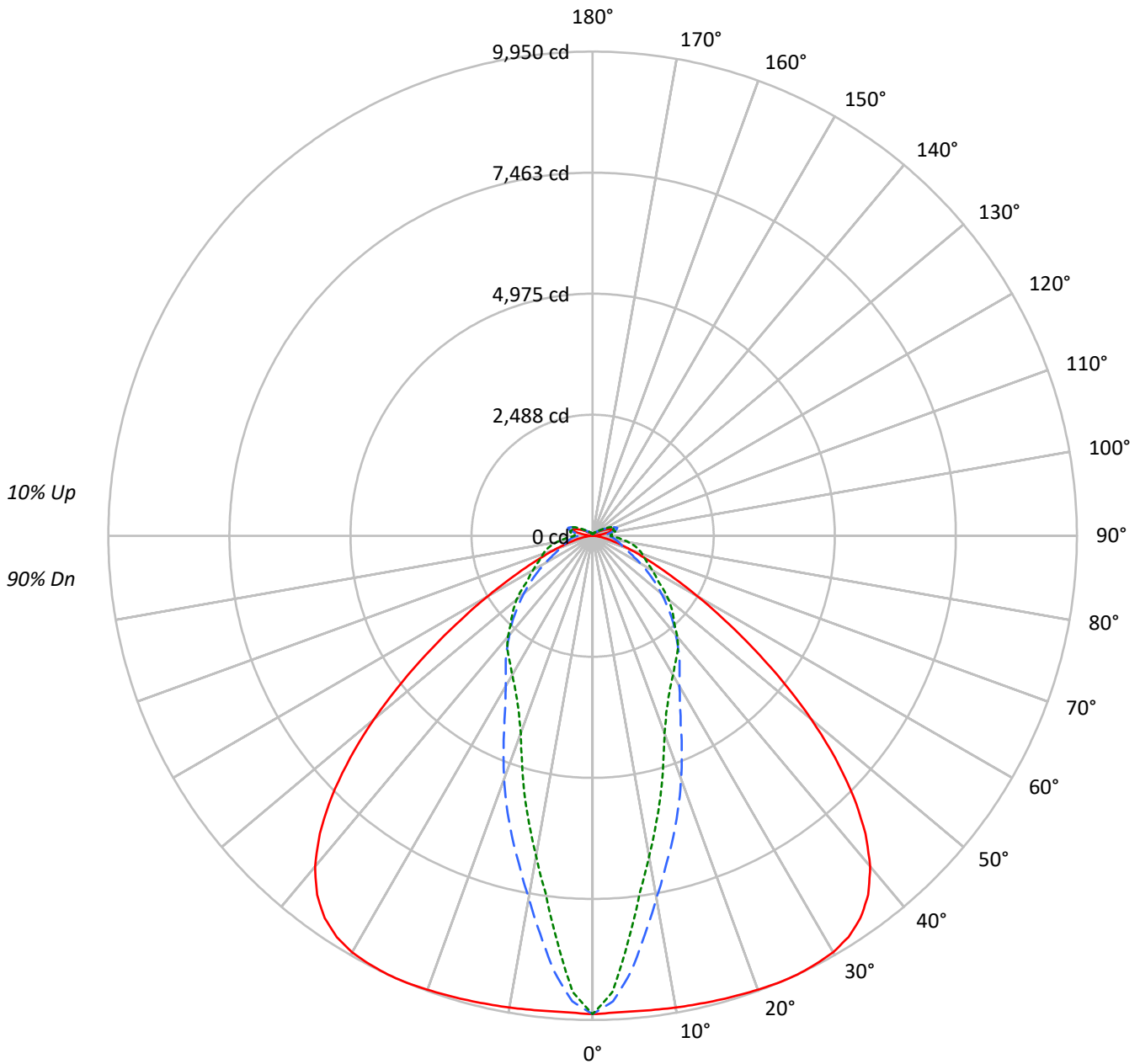
Test Method: LM-79-08  
Report Number: P827700  
REPORT IS A COMBINATION OF REPORTS P826062 AND G3-2310-221-12  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-18HE-N-UNV-L930-CD-UPL12  
Description:  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15513.8 lumens  
Efficiency: N/A  
Efficacy: 139.3 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: 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				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	117	117	117	117	113	113	113	113	106	106	106	99	99	99	93	93	93	93	93	93	90
1	107	103	99	95	104	100	96	93	94	91	88	88	86	84	83	81	80	80	80	80	77
2	99	91	85	80	95	89	83	78	84	79	75	79	75	72	75	72	69	69	69	69	66
3	91	81	74	68	88	79	72	67	75	69	65	71	66	62	67	63	60	60	60	60	58
4	84	73	65	59	81	71	64	58	68	61	57	64	59	55	61	57	53	53	53	53	51
5	78	66	58	52	75	65	57	51	62	55	50	59	53	49	56	51	47	47	47	47	45
6	73	60	52	46	70	59	51	46	56	50	45	54	48	44	51	46	42	42	42	42	40
7	68	55	47	42	65	54	47	41	52	45	40	50	44	39	47	42	38	38	38	38	36
8	63	51	43	38	61	50	42	37	48	41	37	46	40	36	44	39	35	35	35	35	33
9	59	47	40	34	58	46	39	34	44	38	33	43	37	33	41	36	32	32	32	32	30
10	56	44	36	32	54	43	36	31	41	35	31	40	34	30	38	33	30	30	30	30	28

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

	0°	45°	90°
0°	16788	16788	16788
5°	16673	15289	14284
10°	16779	12878	11510
15°	17022	11014	9494
20°	17411	9313	7718
25°	17916	7708	6799
30°	18429	6641	6353
35°	18694	6052	6091
40°	18246	5467	5819
45°	16654	4940	5430
50°	13921	4364	5144
55°	10462	3823	4628
60°	7232	3279	4492
65°	4779	2823	4477
70°	3184	2650	4813
75°	2131	2733	5333
80°	1380	3027	5838
85°	710	3786	6960



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	827.4	5.3
10°-20°	1946.5	12.5
20°-30°	2439.9	15.7
30°-40°	2589.0	16.7
40°-50°	2340.9	15.1
50°-60°	1697.3	10.9
60°-70°	1065.1	6.9
70°-80°	704.9	4.5
80°-90°	408.6	2.6
90°-100°	292.9	1.9
100°-110°	470.4	3.0
110°-120°	371.2	2.4
120°-130°	178.3	1.1
130°-140°	87.6	0.6
140°-150°	50.3	0.3
150°-160°	27.8	0.2
160°-170°	12.1	0.1
170°-180°	3.7	0.0
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0°-30°	5213.8	33.6
0°-40°	7802.8	50.3
0°-60°	11840.9	76.3
0°-90°	14019.5	90.4
90°-120°	1134.5	7.3
90°-150°	1450.6	9.4
90°-180°	1494.0	9.6
0°-180°	15513.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	9829	9829	9829	9829	9829	
5°	9810	9558	8997	8580	8363	938
15°	9884	8057	6399	5691	5432	2803
25°	9950	6230	4285	3803	3682	4597
35°	9594	4142	3110	3012	3011	5964
45°	7584	2623	2254	2308	2347	5778
55°	4015	1626	1471	1595	1652	3628
65°	1436	943	851	1091	1212	1494
75°	444	508	572	888	941	494
85°	78	210	418	582	534	93
90°	2	102	262	366	373	7
95°	24	109	283	384	411	70
105°	425	454	508	456	441	403
115°	301	320	397	420	418	301
125°	154	163	204	217	217	142
135°	92	96	112	125	125	73
145°	72	74	77	85	85	45
155°	60	63	65	67	65	26
165°	42	42	43	43	43	12
175°	38	38	38	38	38	4
180°	37	37	37	37	37	



TEST NUMBER: P827700

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	9829.3	9829.3	9829.3	9829.3	9829.3
2.5°	9808.8	9752.6	9577.7	9471.1	9381.3
5°	9809.7	9558.1	8996.8	8579.6	8363.4
7.5°	9823.8	9264.3	8253.1	7644.0	7406.4
10°	9845.3	8900.4	7558.9	6909.6	6687.9
12.5°	9861.2	8490.7	6948.0	6281.0	6037.8
15°	9884.5	8056.6	6398.8	5690.7	5432.5
17.5°	9906.1	7647.8	5856.3	5116.3	4829.1
20°	9927.6	7207.2	5313.7	4551.2	4314.6
22.5°	9948.2	6742.2	4784.2	4112.5	3950.6
25°	9950.0	6229.5	4284.7	3802.8	3682.1
27.5°	9925.8	5698.2	3879.5	3543.7	3468.9
30°	9883.7	5182.7	3565.2	3356.6	3303.3
32.5°	9778.9	4657.0	3322.0	3176.0	3145.1
35°	9593.6	4141.5	3109.7	3012.3	3011.4
37.5°	9301.7	3684.1	2879.5	2862.6	2883.2
40°	8870.5	3283.6	2661.5	2706.5	2706.5
42.5°	8295.1	2935.6	2464.1	2510.0	2497.8
45°	7584.2	2623.1	2253.6	2307.9	2347.2
47.5°	6760.0	2348.1	2038.5	2143.2	2197.5
50°	5863.7	2086.1	1842.0	1975.8	2037.6
52.5°	4924.5	1843.9	1650.2	1803.6	1853.3
55°	4015.2	1625.9	1470.6	1595.0	1652.1
57.5°	3191.9	1418.2	1294.7	1412.6	1530.5
60°	2483.8	1239.6	1129.2	1297.5	1415.4
62.5°	1897.2	1080.5	973.9	1189.9	1307.8
65°	1436.0	943.0	851.3	1090.8	1212.4
67.5°	1082.4	824.2	755.9	1018.7	1137.6
70°	812.9	709.2	679.2	973.9	1080.5
72.5°	600.6	603.4	618.4	934.6	1016.0
75°	443.5	508.0	571.6	887.8	941.1
77.5°	317.1	421.0	529.5	831.7	850.4
80°	219.9	343.3	485.6	757.7	741.9
82.5°	137.5	275.1	446.2	676.3	632.4
85°	77.7	210.5	418.2	581.9	534.1
87.5°	34.6	157.1	365.8	453.7	423.8
90°	2.4	102.5	261.7	366.5	372.6
92.5°	9.1	91.6	254.3	356.1	369.5
95°	23.9	108.6	282.8	383.8	411.4
97.5°	113.8	173.1	334.4	427.9	447.2
100°	228.7	288.7	384.0	456.5	469.9
102.5°	361.4	395.0	424.8	456.6	460.1
105°	425.4	454.2	507.7	455.6	441.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	347.3	372.1	454.8	472.8	463.7
115°	301.3	320.0	396.6	420.3	418.3
117.5°	255.4	272.6	341.4	362.5	361.7
120°	215.7	231.8	289.5	306.0	306.0
122.5°	183.4	194.9	244.1	257.6	257.5
125°	153.5	162.9	204.5	216.9	216.8
127.5°	129.1	135.8	172.3	184.6	183.7
130°	113.7	118.8	145.3	159.2	159.2
132.5°	101.5	105.8	125.9	139.8	140.6
135°	91.8	96.1	111.5	125.4	125.4
137.5°	85.4	89.7	99.7	112.6	113.4
140°	78.9	83.2	90.4	102.4	102.4
142.5°	74.9	77.5	82.9	93.0	93.8
145°	71.9	74.4	77.1	85.4	85.3
147.5°	67.8	71.3	73.9	78.5	78.4
150°	65.4	69.0	69.8	73.4	72.5
152.5°	62.2	65.8	66.6	69.3	68.3
155°	59.7	63.4	65.1	66.8	65.0
157.5°	46.1	47.7	47.7	48.5	48.5
160°	44.5	45.3	46.1	46.1	46.1
162.5°	42.8	43.6	43.6	44.5	44.5
165°	42.0	42.0	42.8	42.8	42.8
167.5°	40.4	40.4	41.2	41.2	41.2
170°	39.6	39.6	39.6	40.4	40.4
172.5°	38.8	38.8	38.8	38.8	38.8
175°	38.0	38.0	38.0	38.0	38.0
177.5°	37.2	38.0	38.0	38.0	38.0
180°	37.2	37.2	37.2	37.2	37.2



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	427.9	460.3	531.0	485.8	440.6
110°	393.2	425.0	502.7	504.2	469.5



(END OF REPORT)