

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: P826589

Luminaire Tested: **OHBL-36HE-MCL-UNV-L830-CD-UPL18**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P826589  
REPORT IS A COMBINATION OF REPORTS P826168 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-36HE-MCL-UNV-L830-CD-UPL18  
Description:  
Light Source: -  
Ballast/Driver: -

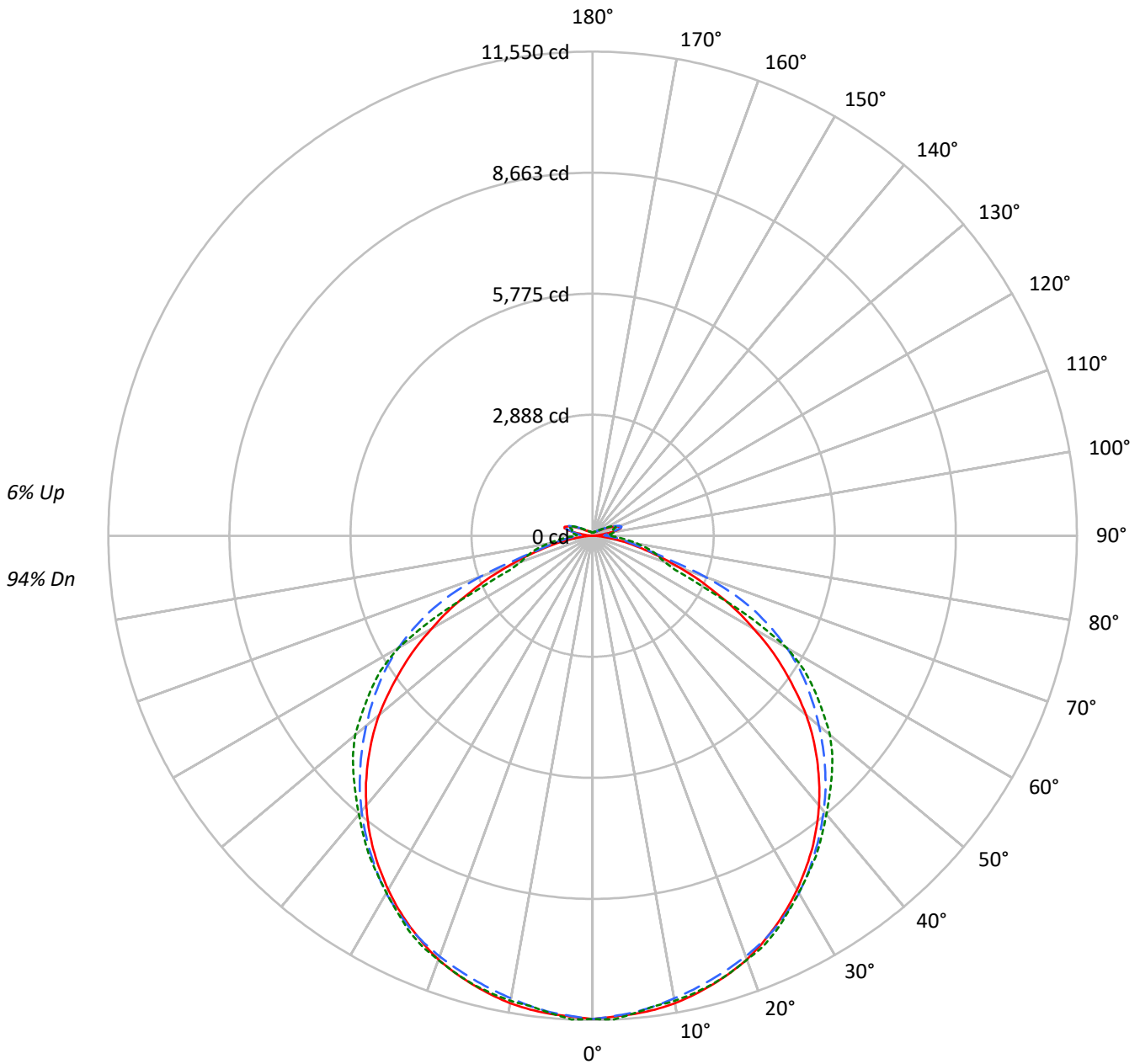
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 34246.2 lumens  
Efficiency: N/A  
Efficacy: 152.7 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 224.3  
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				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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	94			
1	108	103	99	95	104	100	97	93	95	92	89	90	88	85	86	84	82	79			
2	98	90	84	78	95	88	82	77	83	78	74	79	75	71	75	72	69	67			
3	90	79	71	65	87	77	70	64	74	67	62	70	65	60	67	62	59	56			
4	82	70	62	55	79	69	61	54	65	59	53	62	56	52	60	55	50	48			
5	75	63	54	47	73	61	53	47	59	51	46	56	50	45	54	48	44	42			
6	70	56	48	41	67	55	47	41	53	46	40	51	44	39	49	43	39	36			
7	64	51	43	36	62	50	42	36	48	41	35	46	40	35	44	39	34	32			
8	60	47	38	32	58	46	38	32	44	37	32	42	36	31	41	35	31	29			
9	56	43	35	29	54	42	34	29	40	33	28	39	33	28	37	32	28	26			
10	52	39	32	26	51	39	31	26	37	30	26	36	30	25	35	29	25	23			

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

	0°	45°	90°
0°	18230	18230	18230
5°	18034	17965	18079
10°	17892	17693	17954
15°	17702	17489	17911
20°	17511	17361	17832
25°	17219	17232	17757
30°	16904	17029	17509
35°	16542	16706	17418
40°	16092	16372	17268
45°	15499	15986	17273
50°	14728	15547	17275
55°	13568	15114	16792
60°	12089	14482	15712
65°	10209	13308	10114
70°	8048	10389	7493
75°	5843	6167	7853
80°	3852	5128	7917
85°	1954	4698	8325



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1086.9	3.2
10°-20°	3116.7	9.1
20°-30°	4760.2	13.9
30°-40°	5775.7	16.9
40°-50°	6053.5	17.7
50°-60°	5485.4	16.0
60°-70°	3677.7	10.7
70°-80°	1651.5	4.8
80°-90°	603.5	1.8
90°-100°	339.7	1.0
100°-110°	638.5	1.9
110°-120°	518.1	1.5
120°-130°	251.8	0.7
130°-140°	130.2	0.4
140°-150°	77.1	0.2
150°-160°	46.7	0.1
160°-170°	25.2	0.1
170°-180°	7.7	0.0
0°-30°	8963.8	26.2
0°-40°	14739.5	43.0
0°-60°	26278.4	76.7
0°-90°	32211.1	94.1
90°-120°	1496.2	4.4
90°-150°	1955.4	5.7
90°-180°	2035.0	5.9
0°-180°	34246.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	11527	11527	11527	11527	11527	
5°	11452	11492	11412	11447	11432	###
15°	11080	11037	10959	11055	11069	3128
25°	10294	10249	10320	10415	10385	4745
35°	9124	9145	9239	9337	9300	5703
45°	7572	7695	7839	8039	8064	5833
55°	5572	5840	6238	6489	6474	4974
65°	3270	3782	4294	3624	2958	3258
75°	1287	1867	1373	1405	1497	1406
85°	222	425	545	658	690	271
90°	5	165	313	395	416	16
95°	37	165	313	390	419	114
105°	696	721	678	525	499	662
115°	491	503	530	538	541	494
125°	244	257	280	284	284	230
135°	153	157	164	174	176	121
145°	116	119	122	124	126	74
155°	97	100	101	102	100	45
165°	87	88	88	89	89	25
175°	81	81	80	78	78	8
180°	79	79	79	79	79	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	11527.1	11527.1	11527.1	11527.1	11527.1
2.5°	11480.4	11528.7	11468.7	11533.7	11550.4
5°	11452.1	11492.1	11412.1	11447.0	11432.1
7.5°	11400.4	11413.7	11318.7	11347.0	11317.0
10°	11323.7	11317.0	11205.4	11260.4	11267.1
12.5°	11210.4	11190.4	11090.4	11173.7	11175.4
15°	11080.4	11037.0	10958.7	11055.4	11068.7
17.5°	10930.4	10873.7	10822.0	10947.1	10927.0
20°	10755.4	10688.6	10678.7	10815.4	10765.3
22.5°	10538.7	10487.0	10510.3	10640.3	10608.7
25°	10293.7	10248.7	10320.3	10415.3	10385.4
27.5°	10035.3	10008.7	10090.3	10163.7	10105.4
30°	9751.9	9737.0	9845.4	9905.3	9832.0
32.5°	9443.6	9448.7	9552.0	9633.7	9565.3
35°	9123.6	9145.3	9238.6	9337.0	9300.3
37.5°	8772.0	8820.3	8913.6	9025.3	8986.9
40°	8400.3	8470.3	8573.6	8708.6	8673.6
42.5°	7998.6	8086.9	8220.2	8370.3	8366.9
45°	7571.9	7695.2	7838.6	8038.6	8063.6
47.5°	7128.6	7266.9	7448.5	7715.2	7753.6
50°	6646.9	6820.2	7046.9	7366.9	7390.3
52.5°	6110.2	6346.9	6646.9	6953.6	6925.2
55°	5571.9	5840.2	6238.5	6488.6	6473.5
57.5°	5035.1	5336.8	5820.2	5998.5	5996.9
60°	4435.1	4816.8	5345.2	5480.1	5346.9
62.5°	3880.1	4290.1	4838.5	4740.2	4283.4
65°	3270.1	3781.8	4293.5	3623.5	2958.4
67.5°	2728.4	3261.8	3646.8	2481.8	2125.1
70°	2183.4	2771.8	2843.4	1841.8	1816.7
72.5°	1700.0	2326.8	1961.7	1576.7	1656.8
75°	1286.7	1866.7	1373.4	1405.0	1496.7
77.5°	938.4	1433.3	1068.4	1231.7	1306.7
80°	645.1	1015.0	871.7	1035.1	1086.7
82.5°	405.0	670.0	698.4	833.4	886.7
85°	221.7	425.0	545.0	658.4	690.0
87.5°	91.7	256.6	416.7	508.4	535.0
90°	5.4	164.9	313.3	395.2	416.5
92.5°	13.8	139.0	281.2	355.8	374.8
95°	37.0	164.6	313.4	390.4	419.4
97.5°	184.8	268.2	383.1	457.5	479.0
100°	379.1	451.0	464.4	508.5	519.2
102.5°	592.0	631.1	535.8	518.2	517.6
105°	696.2	721.4	677.5	525.4	498.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	571.8	587.3	609.4	609.5	589.6
115°	490.7	503.0	530.3	538.1	540.6
117.5°	420.0	426.1	453.0	461.1	465.4
120°	353.0	361.1	386.6	392.1	392.0
122.5°	297.1	305.5	328.5	334.1	333.9
125°	244.3	257.1	280.3	284.4	284.2
127.5°	210.6	219.0	240.7	244.7	244.6
130°	184.5	192.7	206.7	214.2	215.1
132.5°	168.5	173.0	183.6	191.1	193.0
135°	152.7	157.2	163.5	173.7	176.2
137.5°	142.3	145.1	148.8	159.0	161.6
140°	132.0	134.8	136.0	144.5	147.1
142.5°	122.0	126.5	127.6	133.5	136.1
145°	115.5	119.0	121.8	124.4	126.1
147.5°	110.6	112.5	114.4	116.2	117.9
150°	105.1	106.9	108.8	109.7	110.6
152.5°	101.3	102.3	104.1	105.1	105.1
155°	96.7	100.2	101.2	102.1	100.4
157.5°	93.9	96.5	97.4	98.4	98.4
160°	91.1	92.8	93.7	94.6	94.6
162.5°	90.0	90.0	90.9	91.8	91.8
165°	87.2	88.1	88.1	89.1	89.1
167.5°	85.3	87.0	86.3	86.3	87.2
170°	83.5	83.5	84.4	82.7	82.7
172.5°	81.6	82.5	82.5	80.9	80.9
175°	80.7	80.7	79.9	78.3	78.3
177.5°	81.4	80.7	79.0	77.3	75.7
180°	79.0	79.0	79.0	79.0	79.0



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	704.4	727.7	723.8	597.1	519.5
110°	647.4	671.6	685.3	644.5	583.6



(END OF REPORT)