

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: P826590

Luminaire Tested: **OHBL-36HE-MCL-UNV-L830-CD-UPL36**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P826590  
REPORT IS A COMBINATION OF REPORTS P826312 AND G3-2310-221-2  
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-UPL36  
Description:  
Light Source: -  
Ballast/Driver: -

**Summary**

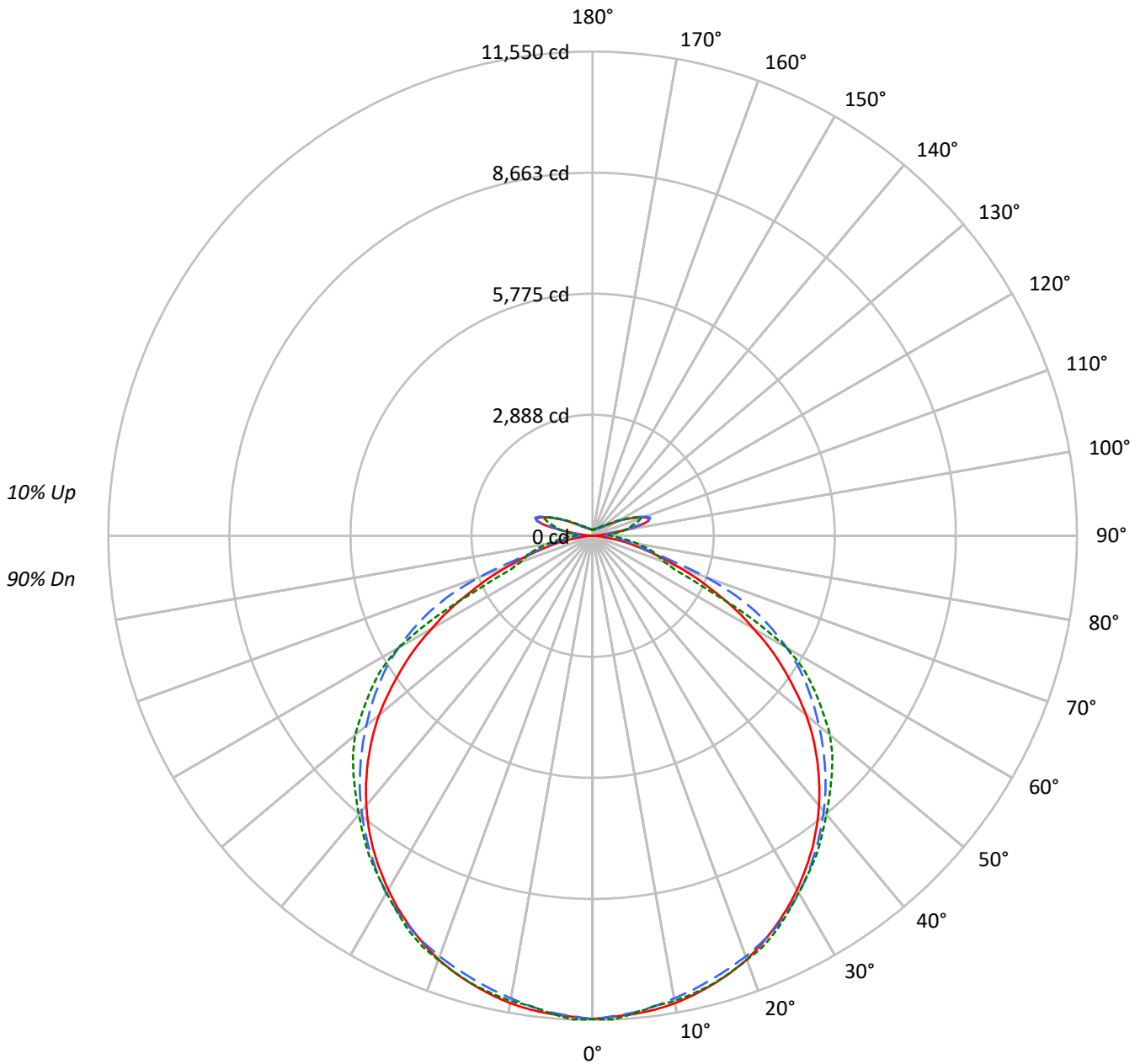
Lumens per Lamp: N/A  
Luminaire Lumens: 35913.9 lumens  
Efficiency: N/A  
Efficacy: 149.1 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')  
CIE Type: Semi-Direct

Input Watts (W): 240.8  
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				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	105	105	105	99	99	99	93	93	93	93	93	93	90
1	107	102	98	94	103	99	95	92	93	90	87	87	85	83	82	80	78	78	78	78	76
2	97	89	83	77	94	87	81	76	81	77	72	77	73	69	72	69	66	66	66	66	63
3	89	79	71	64	85	76	69	63	72	66	61	68	63	58	64	60	56	56	56	56	54
4	81	70	61	55	78	68	60	54	64	57	52	60	55	50	57	52	48	48	48	48	46
5	75	62	53	47	72	60	52	46	57	50	45	54	48	43	51	46	42	42	42	42	40
6	69	56	47	41	66	54	46	40	52	44	39	49	43	38	46	41	37	37	37	37	35
7	64	51	42	36	62	49	41	36	47	40	35	45	38	34	42	37	33	33	33	33	31
8	59	46	38	32	57	45	37	32	43	36	31	41	35	30	39	33	29	29	29	29	27
9	55	42	34	29	53	41	34	28	39	33	28	38	31	27	36	30	26	26	26	26	24
10	52	39	31	26	50	38	31	26	36	30	25	35	29	25	33	28	24	24	24	24	22

**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	3.0
10°-20°	3116.7	8.7
20°-30°	4760.2	13.3
30°-40°	5775.7	16.1
40°-50°	6053.5	16.9
50°-60°	5485.4	15.3
60°-70°	3677.7	10.2
70°-80°	1651.5	4.6
80°-90°	606.5	1.7
90°-100°	436.4	1.2
100°-110°	1244.7	3.5
110°-120°	1002.3	2.8
120°-130°	477.7	1.3
130°-140°	246.1	0.7
140°-150°	145.3	0.4
150°-160°	86.9	0.2
160°-170°	46.2	0.1
170°-180°	14.2	0.0
0°-30°	8963.8	25.0
0°-40°	14739.5	41.0
0°-60°	26278.4	73.2
0°-90°	32214.1	89.7
90°-120°	2683.4	7.5
90°-150°	3552.6	9.9
90°-180°	3700.0	10.3
0°-180°	35913.9	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°	9	187	340	420	438	18
95°	59	204	347	430	452	217
105°	1381	1410	1385	1074	986	1314
115°	972	966	1001	1021	1015	981
125°	483	502	530	526	519	456
135°	294	302	312	323	325	233
145°	218	224	229	233	236	139
155°	180	185	188	190	188	84
165°	159	161	162	163	164	45
175°	147	147	146	144	145	14
180°	143	143	143	143	143	



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CATALOG NUMBER: OHBL-36HE-MCL-UNV-L830-CD-UPL36

**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°	9.1	187.2	340.3	420.3	437.9
92.5°	24.9	164.2	301.7	374.4	391.6
95°	59.4	203.7	346.9	430.4	452.0
97.5°	351.4	444.1	486.4	583.1	612.0
100°	752.3	825.1	729.6	762.6	786.2
102.5°	1177.3	1233.2	1051.3	912.8	889.8
105°	1381.1	1410.0	1384.8	1074.4	986.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1137.6	1152.1	1175.2	1186.5	1160.0
115°	971.8	965.5	1001.2	1021.1	1015.1
117.5°	833.1	827.2	859.6	865.9	859.0
120°	702.8	704.5	735.5	730.9	725.1
122.5°	584.7	597.7	622.5	621.6	611.2
125°	483.4	501.8	529.7	526.3	518.7
127.5°	418.1	423.7	450.1	450.4	452.1
130°	361.3	370.5	389.1	397.5	395.7
132.5°	323.9	333.0	347.4	356.8	359.6
135°	294.1	302.3	311.5	322.6	325.1
137.5°	271.6	277.2	282.8	295.8	298.4
140°	251.2	256.7	260.6	271.1	272.7
142.5°	232.7	240.0	243.0	250.8	252.5
145°	217.8	224.2	228.8	233.3	235.9
147.5°	208.4	212.1	216.7	217.7	220.3
150°	198.1	200.9	204.6	206.5	207.4
152.5°	188.8	191.6	195.3	196.3	197.2
155°	180.4	184.9	187.7	189.6	187.9
157.5°	173.0	177.5	180.2	181.2	181.2
160°	167.4	170.9	173.7	173.7	174.7
162.5°	163.5	165.4	167.2	168.2	169.1
165°	158.8	160.7	161.6	162.6	163.5
167.5°	155.1	157.7	157.0	157.9	157.9
170°	151.4	152.3	153.3	151.6	152.5
172.5°	148.6	149.5	150.5	148.8	148.8
175°	146.7	146.7	146.0	144.3	145.3
177.5°	146.6	145.8	144.1	142.5	141.7
180°	143.2	143.2	143.2	143.2	143.2



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	1395.8	1421.9	1438.5	1293.2	<i>1134.6</i>
110°	1290.4	1319.2	1339.4	1301.5	<i>1231.2</i>



(END OF REPORT)