

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: P826601

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

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P826601  
REPORT IS A COMBINATION OF REPORTS P826174 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-36SE-MCL-UNV-L830-CD-UPL18  
Description:  
Light Source: -  
Ballast/Driver: -

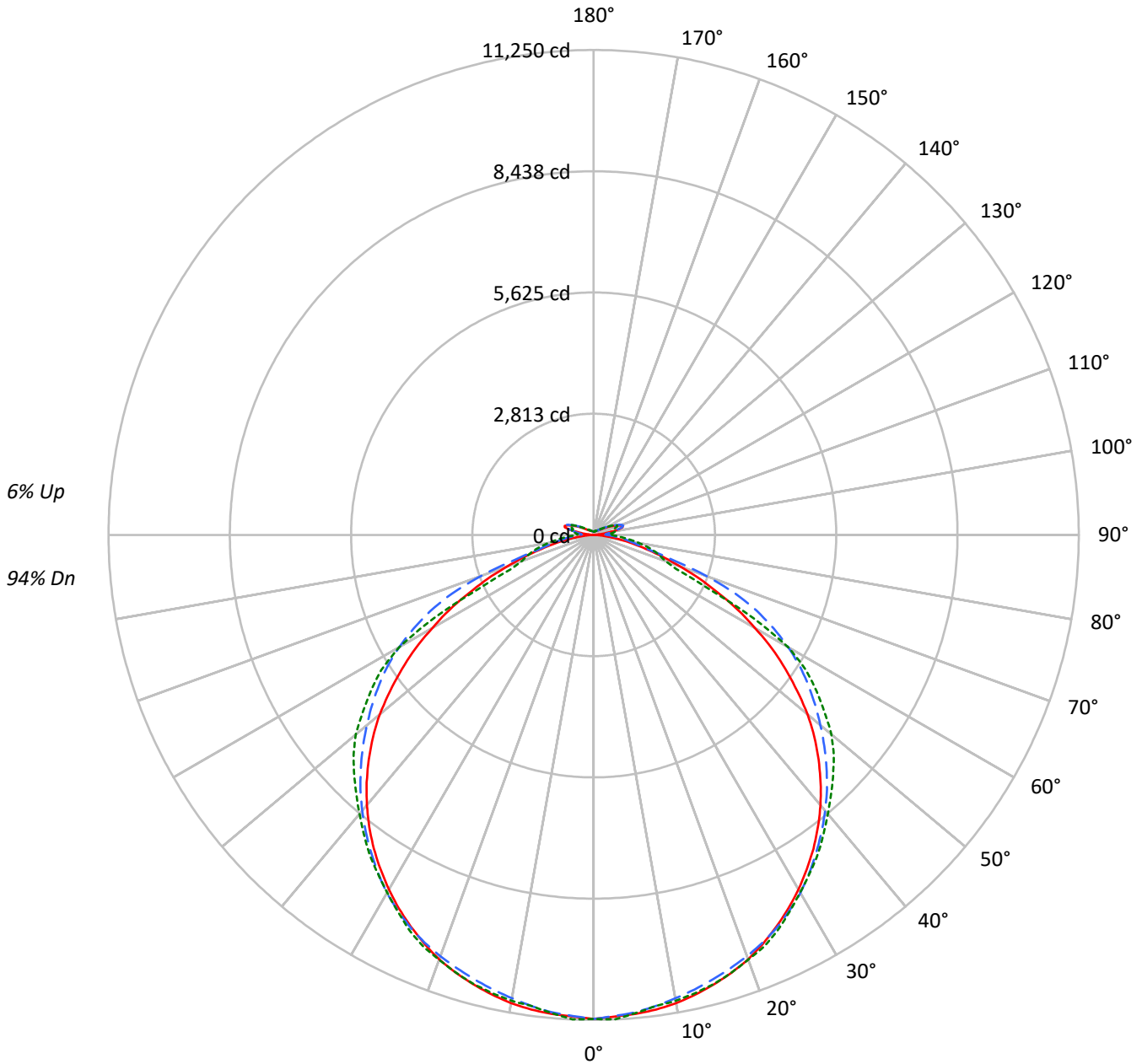
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33399.3 lumens  
Efficiency: N/A  
Efficacy: 149.6 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): 223.3  
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	0																
RCR																																					
0	118	118	118	118	114	114	114	114	108	108	108	102	102	102	96	96	96	94																			
1	108	103	99	95	104	100	97	93	95	92	89	90	88	85	85	84	82	79																			
2	98	90	84	78	95	88	82	77	83	78	74	79	75	71	75	72	69	66																			
3	90	79	71	65	87	77	70	64	73	67	62	70	65	60	67	62	59	56																			
4	82	70	62	55	79	69	61	54	65	58	53	62	56	52	59	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	48	43	38	36																			
7	64	51	43	36	62	50	42	36	48	41	35	46	40	35	44	38	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	32	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°	17756	17756	17756
5°	17565	17498	17609
10°	17427	17233	17487
15°	17242	17035	17445
20°	17056	16910	17368
25°	16771	16784	17295
30°	16465	16586	17054
35°	16112	16271	16965
40°	15673	15947	16819
45°	15097	15571	16824
50°	14345	15143	16826
55°	13216	14722	16355
60°	11775	14106	15304
65°	9944	12962	9852
70°	7839	10119	7298
75°	5691	6007	7649
80°	3751	4994	7711
85°	1903	4577	8108



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1058.6	3.2
10°-20°	3035.7	9.1
20°-30°	4636.5	13.9
30°-40°	5625.6	16.8
40°-50°	5896.2	17.7
50°-60°	5342.8	16.0
60°-70°	3582.2	10.7
70°-80°	1608.5	4.8
80°-90°	587.9	1.8
90°-100°	335.0	1.0
100°-110°	636.2	1.9
110°-120°	516.9	1.5
120°-130°	251.2	0.8
130°-140°	129.8	0.4
140°-150°	76.8	0.2
150°-160°	46.5	0.1
160°-170°	25.1	0.1
170°-180°	7.7	0.0
0°-30°	8730.8	26.1
0°-40°	14356.4	43.0
0°-60°	25595.4	76.6
0°-90°	31374.0	93.9
90°-120°	1488.2	4.5
90°-150°	1946.0	5.8
90°-180°	2025.0	6.1
0°-180°	33399.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	11227	11227	11227	11227	11227	
5°	11154	11193	11115	11150	11135	###
15°	10792	10750	10674	10768	10781	3047
25°	10026	9982	10052	10145	10115	4621
35°	8886	8908	8998	9094	9059	5554
45°	7375	7495	7635	7830	7854	5681
55°	5427	5688	6076	6320	6305	4844
65°	3185	3684	4182	3529	2882	3174
75°	1253	1818	1338	1369	1458	1370
85°	216	414	531	641	672	263
90°	5	161	306	386	407	16
95°	37	162	308	384	413	113
105°	696	720	675	522	496	662
115°	490	502	529	536	539	494
125°	244	257	280	283	283	230
135°	152	157	163	173	176	121
145°	115	119	121	124	126	73
155°	96	100	101	102	100	45
165°	87	88	88	89	89	25
175°	80	80	80	78	78	8
180°	78	78	78	78	78	



TEST NUMBER: P826601

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	11227.4	11227.4	11227.4	11227.4	11227.4
2.5°	11182.0	11229.1	11170.7	11233.9	11250.1
5°	11154.4	11193.4	11115.4	11149.5	11134.9
7.5°	11104.0	11117.1	11024.5	11052.1	11022.9
10°	11029.4	11022.9	10914.1	10967.7	10974.2
12.5°	10919.0	10899.5	10802.1	10883.3	10884.9
15°	10792.4	10750.2	10673.8	10768.0	10781.0
17.5°	10646.3	10591.1	10540.8	10662.5	10643.0
20°	10475.8	10410.9	10401.1	10534.3	10485.6
22.5°	10264.8	10214.4	10237.1	10363.8	10333.0
25°	10026.1	9982.3	10052.1	10144.6	10115.4
27.5°	9774.5	9748.5	9828.1	9899.5	9842.7
30°	9498.6	9483.9	9589.5	9647.9	9576.4
32.5°	9198.2	9203.1	9303.7	9383.3	9316.7
35°	8886.5	8907.6	8998.5	9094.3	9058.6
37.5°	8544.0	8591.1	8682.0	8790.7	8753.4
40°	8181.9	8250.1	8350.8	8482.3	8448.1
42.5°	7790.7	7876.8	8006.6	8152.7	8149.4
45°	7375.1	7495.3	7634.8	7829.7	7854.0
47.5°	6943.2	7078.0	7255.0	7514.7	7552.1
50°	6474.2	6643.0	6863.8	7175.4	7198.1
52.5°	5951.4	6182.0	6474.2	6772.9	6745.2
55°	5427.0	5688.4	6076.4	6319.9	6305.3
57.5°	4904.3	5198.2	5668.9	5842.6	5841.0
60°	4319.9	4691.7	5206.3	5337.8	5207.9
62.5°	3779.3	4178.7	4712.7	4617.0	4172.1
65°	3185.1	3683.5	4181.9	3529.3	2881.6
67.5°	2657.5	3177.0	3552.0	2417.2	2069.8
70°	2126.7	2699.7	2769.5	1793.8	1769.5
72.5°	1655.8	2266.3	1910.7	1535.7	1613.7
75°	1253.3	1818.2	1337.7	1368.6	1457.8
77.5°	914.0	1396.1	1040.6	1199.7	1272.7
80°	628.2	988.6	849.0	1008.2	1058.4
82.5°	394.5	652.6	680.2	811.7	863.6
85°	215.9	414.0	530.9	641.2	672.0
87.5°	89.3	250.0	405.8	495.1	521.1
90°	5.3	161.3	306.0	386.0	406.9
92.5°	13.7	136.2	275.2	348.3	367.1
95°	36.9	162.4	308.4	384.3	413.2
97.5°	184.7	266.4	378.9	452.3	473.7
100°	378.9	449.6	460.9	504.4	514.8
102.5°	591.8	629.8	532.8	514.7	513.9
105°	696.1	720.3	675.0	522.4	495.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	571.5	586.6	607.9	607.7	587.6
115°	490.4	502.4	529.1	536.5	538.8
117.5°	419.7	425.6	451.9	459.8	464.0
120°	352.7	360.8	385.6	390.9	390.6
122.5°	296.8	305.2	327.6	333.0	332.8
125°	244.0	256.8	279.5	283.4	283.3
127.5°	210.3	218.7	240.0	243.9	243.7
130°	184.2	192.3	206.0	213.5	214.4
132.5°	168.2	172.5	183.0	190.5	192.3
135°	152.3	156.7	163.0	173.0	175.6
137.5°	141.8	144.6	148.3	158.4	160.9
140°	131.6	134.4	135.6	144.0	146.5
142.5°	121.6	126.0	127.2	133.0	135.6
145°	115.1	118.6	121.3	124.0	125.5
147.5°	110.2	112.0	113.9	115.8	117.4
150°	104.6	106.5	108.3	109.2	110.2
152.5°	100.9	101.8	103.7	104.6	104.6
155°	96.2	99.8	100.7	101.6	99.9
157.5°	93.4	96.0	97.0	97.9	97.9
160°	90.6	92.3	93.2	94.2	94.2
162.5°	89.5	89.5	90.4	91.4	91.4
165°	86.7	87.7	87.7	88.6	88.6
167.5°	84.9	86.4	85.8	85.8	86.7
170°	83.0	83.0	83.9	82.3	82.3
172.5°	81.1	82.1	82.1	80.4	80.4
175°	80.2	80.2	79.5	77.9	77.9
177.5°	80.9	80.2	78.5	77.0	75.4
180°	78.5	78.5	78.5	78.5	78.5



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	704.2	726.9	721.6	594.5	516.8
110°	647.2	670.8	683.5	642.3	581.3



(END OF REPORT)