

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: P826600

Luminaire Tested: **OHBL-36SE-A-UNV-L830-CD-UPL36**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P826600  
REPORT IS A COMBINATION OF REPORTS P826317 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-36SE-A-UNV-L830-CD-UPL36  
Description:  
Light Source: -  
Ballast/Driver: -

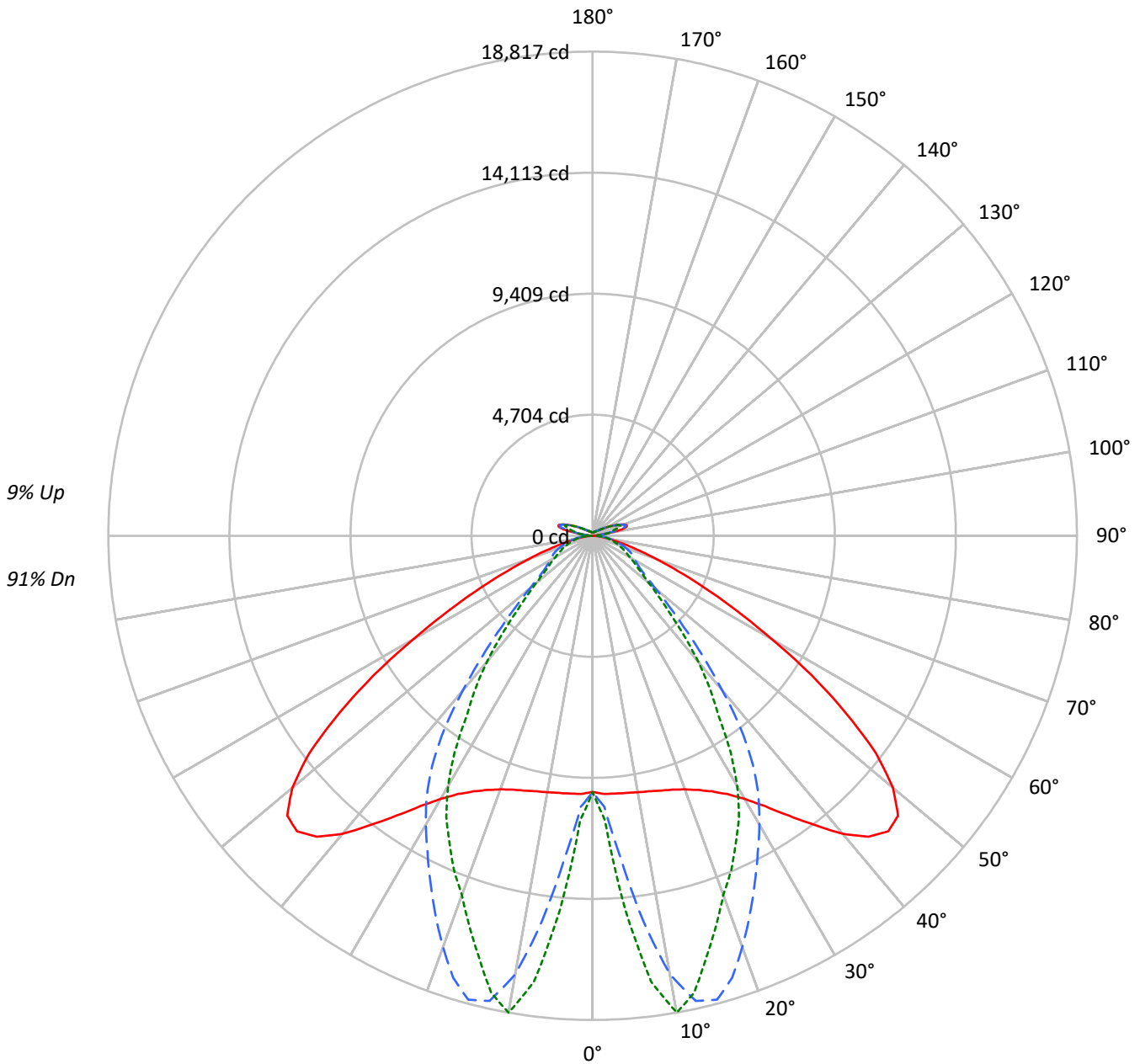
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 35287.7 lumens  
Efficiency: N/A  
Efficacy: 147.2 lumens/watt  
Spacing Criteria (0/90/45): 2.18 / 1.37 / 1.3  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 239.8  
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

TEST NUMBER: P826600

CATALOG NUMBER: OHBL-36SE-A-UNV-L830-CD-UPL36

### 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	117	117	117	117	113	113	113	113	106	106	106	99	99	99	93	93	93	91																			
1	108	104	101	98	105	101	98	95	95	93	90	90	88	86	85	83	82	79																			
2	100	93	87	83	97	91	85	81	86	81	78	81	78	75	77	74	72	69																			
3	93	84	77	71	89	81	75	70	77	72	67	73	69	65	70	66	63	61																			
4	86	75	68	62	83	73	66	61	70	64	59	67	62	57	63	59	56	54																			
5	80	68	60	55	77	67	59	54	64	57	52	61	55	51	58	53	50	48																			
6	74	62	54	49	72	61	53	48	58	52	47	56	50	46	53	48	45	43																			
7	69	57	49	44	67	56	48	43	53	47	42	51	46	41	49	44	40	38																			
8	64	52	45	39	63	51	44	39	49	43	38	47	42	37	46	40	37	35																			
9	60	48	41	36	59	47	40	35	46	39	35	44	38	34	42	37	34	32																			
10	57	45	37	33	55	44	37	32	42	36	32	41	35	31	39	34	31	29																			

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

	0°	45°	90°
0°	15748	15748	15748
5°	15838	19816	23085
10°	15990	27332	29985
15°	16382	29788	27521
20°	17070	27652	24595
25°	18328	24881	22498
30°	20452	22415	20005
35°	24063	19630	15941
40°	28960	14959	12687
45°	33252	10199	9030
50°	33750	7002	6679
55°	29255	5515	5456
60°	21890	5167	4909
65°	15037	5191	4650
70°	9642	5017	4503
75°	5823	4658	4308
80°	3450	4112	4446
85°	1683	3564	4122



TEST NUMBER: P826600

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1300.0	3.7
10°-20°	4588.3	13.0
20°-30°	6761.2	19.2
30°-40°	7104.9	20.1
40°-50°	5436.6	15.4
50°-60°	3282.8	9.3
60°-70°	2003.3	5.7
70°-80°	1093.4	3.1
80°-90°	390.9	1.1
90°-100°	256.0	0.7
100°-110°	1159.5	3.3
110°-120°	959.7	2.7
120°-130°	454.2	1.3
130°-140°	230.0	0.7
140°-150°	134.4	0.4
150°-160°	78.8	0.2
160°-170°	41.0	0.1
170°-180°	12.5	0.0
0°-30°	12649.5	35.8
0°-40°	19754.5	56.0
0°-60°	28473.9	80.7
0°-90°	31961.5	90.6
90°-120°	2375.2	6.7
90°-150°	3193.8	9.1
90°-180°	3326.0	9.4
0°-180°	35287.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	9958	9958	9958	9958	9958	
5°	10058	10790	12588	14055	14598	962
15°	10254	15971	18665	17417	17008	2915
25°	10957	18535	14901	13491	13158	5121
35°	13272	14843	10856	9041	8512	8420
45°	16245	8470	5001	4400	4215	12274
55°	12014	2872	2276	2110	2103	10616
65°	4816	1818	1675	1433	1360	4935
75°	1282	1131	1037	856	821	1475
85°	191	350	413	377	342	236
90°	7	46	59	67	68	15
95°	58	115	154	195	210	215
105°	1374	1372	1290	959	866	1306
115°	958	945	953	959	950	969
125°	472	488	500	491	482	444
135°	279	286	293	296	297	221
145°	203	208	212	215	216	129
155°	164	167	169	171	171	77
165°	140	142	143	144	145	40
175°	128	128	129	129	130	12
180°	127	127	127	127	127	



TEST NUMBER: P826600

CATALOG NUMBER: OHBL-36SE-A-UNV-L830-CD-UPL36

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	9957.9	9957.9	9957.9	9957.9	9957.9
2.5°	10039.4	10141.8	10545.8	10965.2	11067.2
5°	10057.7	10790.5	12587.8	14055.4	14597.7
7.5°	10079.1	11841.4	15117.8	16914.7	17489.9
10°	10119.7	13170.2	17310.1	18600.0	18817.4
12.5°	10170.0	14578.1	18516.4	18469.4	18195.2
15°	10253.8	15970.6	18665.0	17417.3	17007.8
17.5°	10341.7	17148.6	18016.8	16272.1	15915.5
20°	10484.8	18023.2	17008.6	15254.0	14848.8
22.5°	10691.1	18504.0	15951.3	14333.4	14069.1
25°	10957.0	18535.2	14901.4	13490.9	13157.9
27.5°	11313.6	18105.2	13894.9	12665.5	12313.7
30°	11798.7	17281.9	12959.8	11670.2	11233.8
32.5°	12457.5	16096.9	11995.5	10468.6	9979.2
35°	13272.3	14843.3	10855.9	9040.6	8512.0
37.5°	14161.3	13451.2	9472.8	7776.3	7468.4
40°	15117.8	12016.9	7833.5	6593.0	6372.7
42.5°	15864.2	10457.4	6310.7	5478.9	5244.5
45°	16244.7	8469.7	5000.7	4400.3	4215.4
47.5°	16096.6	6574.7	3964.4	3496.4	3440.8
50°	15231.8	4854.7	3173.6	2880.2	2857.1
52.5°	13879.9	3618.5	2621.4	2439.9	2400.2
55°	12013.5	2872.1	2276.4	2109.8	2103.4
57.5°	10086.4	2439.9	2066.3	1937.3	1892.5
60°	8030.8	2175.6	1907.0	1761.4	1670.4
62.5°	6294.9	1990.7	1790.0	1592.3	1507.3
65°	4816.3	1818.2	1674.7	1433.1	1360.0
67.5°	3590.3	1653.8	1533.8	1265.6	1222.9
70°	2615.9	1485.2	1373.2	1125.6	1091.8
72.5°	1864.3	1316.9	1212.7	994.1	956.9
75°	1282.3	1130.7	1037.2	855.7	821.1
77.5°	865.1	940.7	864.3	730.6	716.1
80°	577.8	746.0	699.0	619.2	610.2
82.5°	350.5	541.5	551.7	503.4	479.1
85°	190.9	350.5	413.4	376.6	341.6
87.5°	74.7	194.3	284.8	255.8	240.8
90°	7.4	45.6	58.6	67.0	67.9
92.5°	23.3	55.8	71.7	89.3	94.9
95°	57.7	115.4	153.5	195.4	210.3
97.5°	348.0	374.1	324.8	388.0	410.4
100°	747.2	766.8	594.6	599.3	617.9
102.5°	1170.6	1186.5	938.0	776.1	748.2
105°	1374.4	1371.6	1289.8	959.4	866.3



TEST NUMBER: P826600

CATALOG NUMBER: OHBL-36SE-A-UNV-L830-CD-UPL36

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1126.0	1128.8	1118.5	1114.8	1085.0
115°	958.5	945.4	952.9	959.4	950.1
117.5°	819.8	810.5	818.0	814.2	804.0
120°	689.5	689.5	698.8	685.8	678.4
122.5°	571.4	584.4	590.9	581.6	569.5
125°	471.8	488.5	499.7	491.3	482.0
127.5°	404.8	410.4	423.4	418.8	418.8
130°	348.0	355.5	365.7	367.6	365.7
132.5°	308.9	316.4	325.7	328.5	331.3
135°	279.2	285.7	293.1	295.9	296.8
137.5°	255.0	260.6	266.1	270.8	271.7
140°	234.5	240.1	245.7	249.4	249.4
142.5°	217.8	223.3	228.0	230.8	230.8
145°	202.9	207.5	212.2	215.0	215.9
147.5°	191.7	195.4	200.1	201.0	201.9
150°	181.5	184.2	188.0	189.8	190.8
152.5°	172.2	174.9	178.7	179.6	180.5
155°	163.8	166.6	169.4	171.2	171.2
157.5°	156.3	159.1	161.9	162.8	162.8
160°	150.8	152.6	155.4	155.4	156.3
162.5°	145.2	147.0	148.9	149.8	150.8
165°	140.5	142.4	143.3	144.2	145.2
167.5°	136.8	137.7	138.7	139.6	139.6
170°	133.1	134.0	134.9	134.9	135.9
172.5°	130.3	131.2	132.1	132.1	132.1
175°	128.4	128.4	129.3	129.3	130.3
177.5°	126.6	127.5	127.5	127.5	128.4
180°	126.6	126.6	126.6	126.6	126.6



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	1387.5	1390.2	1356.8	1194.8	<i>1032.9</i>
110°	1280.4	1292.5	1271.1	1218.1	<i>1144.6</i>



(END OF REPORT)