

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: P826547

Luminaire Tested: **OHBL-24SE-A-UNV-L830-CD-UPL36**

Issue Date: 5/3/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P826547  
REPORT IS A COMBINATION OF REPORTS P826305 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-24SE-A-UNV-L830-CD-UPL36  
Description:  
Light Source: -  
Ballast/Driver: -

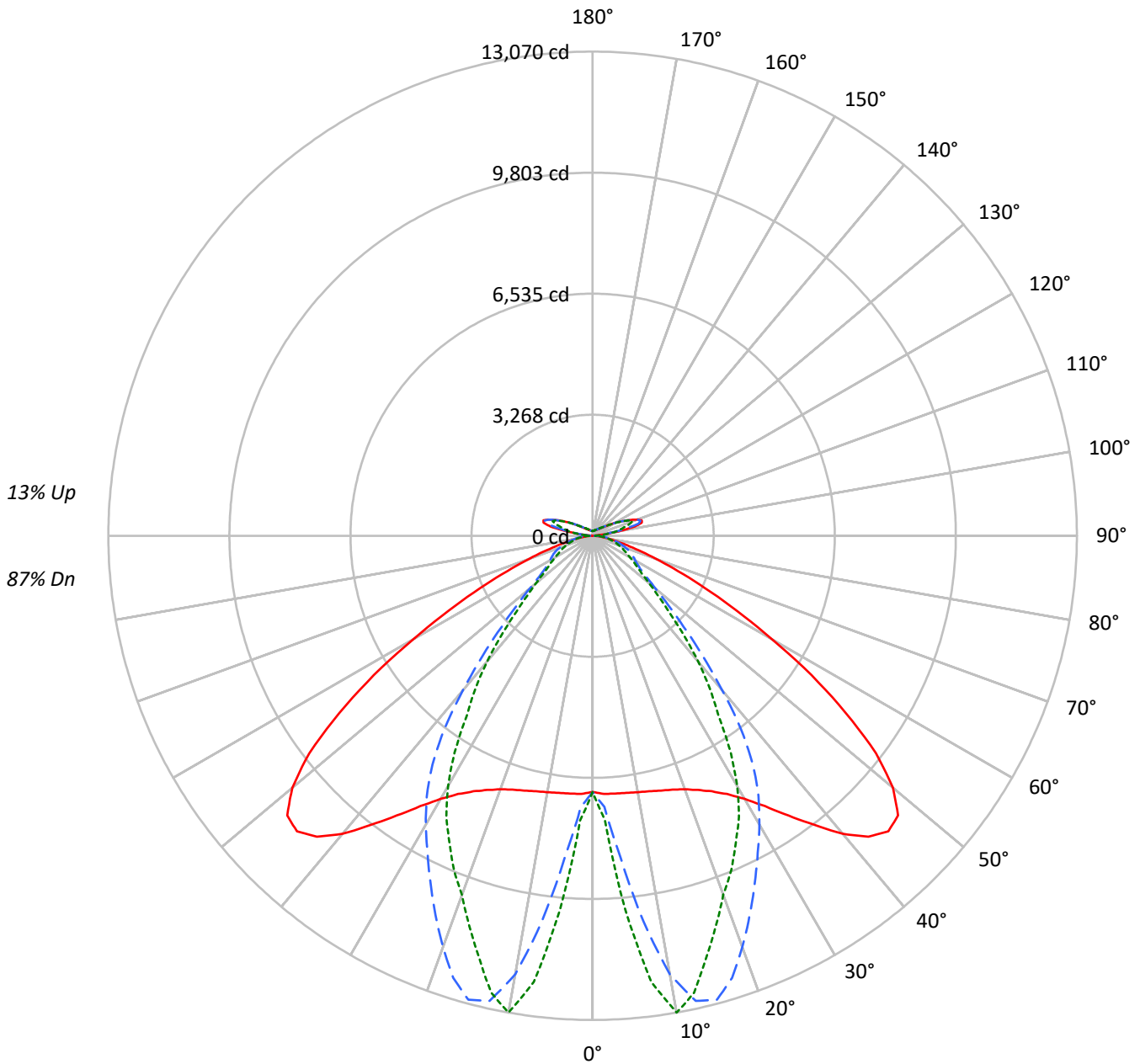
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25527.0 lumens  
Efficiency: N/A  
Efficacy: 153.0 lumens/watt  
Spacing Criteria (0/90/45): 2.18 / 1.37 / 1.3  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')  
CIE Type: Semi-Direct

Input Watts (W): 166.8  
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

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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	116	116	116	116	112	112	112	112	104	104	104	97	97	97	90	90	90	87				87
1	107	103	100	97	104	100	97	94	93	91	89	87	85	84	82	80	79	76				76
2	99	92	87	82	96	89	84	80	84	80	76	79	75	72	74	71	69	66				66
3	92	83	76	70	88	80	74	69	76	70	66	71	67	63	67	64	61	58				58
4	85	75	67	61	82	72	65	60	68	63	58	65	60	56	61	57	54	51				51
5	79	67	60	54	76	66	58	53	62	56	51	59	54	50	56	52	48	46				46
6	73	61	54	48	71	60	52	47	57	50	46	54	49	44	51	47	43	41				41
7	68	56	48	43	66	55	47	42	52	46	41	50	44	40	47	43	39	37				37
8	64	52	44	39	62	50	43	38	48	42	37	46	40	36	44	39	35	33				33
9	60	48	40	35	58	47	40	35	44	38	34	43	37	33	41	36	32	31				31
10	56	44	37	32	54	43	36	32	41	35	31	40	34	30	38	33	30	28				28

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

	0°	45°	90°
0°	11813	11813	11813
5°	11873	14857	17316
10°	11979	20483	22492
15°	12264	22314	20644
20°	12771	20704	18449
25°	13703	18620	16875
30°	15280	16766	15006
35°	17963	14674	11958
40°	21598	11175	9516
45°	24775	7614	6773
50°	25117	5222	5010
55°	21741	4110	4093
60°	16240	3846	3682
65°	11131	3858	3488
70°	7117	3721	3378
75°	4280	3444	3232
80°	2519	3026	3335
85°	1212	2599	3092



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	902.9	3.5
10°-20°	3186.8	12.5
20°-30°	4695.9	18.4
30°-40°	4934.7	19.3
40°-50°	3776.0	14.8
50°-60°	2280.1	8.9
60°-70°	1391.4	5.5
70°-80°	759.4	3.0
80°-90°	273.7	1.1
90°-100°	256.0	1.0
100°-110°	1159.5	4.5
110°-120°	959.7	3.8
120°-130°	454.2	1.8
130°-140°	230.0	0.9
140°-150°	134.4	0.5
150°-160°	78.8	0.3
160°-170°	41.0	0.2
170°-180°	12.5	0.0
0°-30°	8785.7	34.4
0°-40°	13720.4	53.7
0°-60°	19776.4	77.5
0°-90°	22200.9	87.0
90°-120°	2375.2	9.3
90°-150°	3193.8	12.5
90°-180°	3326.0	13.0
0°-180°	25527.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6916	6916	6916	6916	6916	
5°	6986	7494	8743	9762	10139	668
15°	7122	11092	12964	12097	11813	2025
25°	7610	12874	10350	9370	9139	3557
35°	9218	10309	7540	6279	5912	5848
45°	11283	5883	3473	3056	2928	8525
55°	8344	1995	1581	1465	1461	7373
65°	3345	1263	1163	995	945	3428
75°	891	785	720	594	570	1025
85°	133	244	287	262	237	164
90°	7	46	59	67	68	12
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	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6916.2	6916.2	6916.2	6916.2	6916.2
2.5°	6972.8	7044.0	7324.6	7615.8	7686.7
5°	6985.6	7494.5	8742.8	9762.1	10138.8
7.5°	7000.4	8224.3	10500.0	11748.0	12147.5
10°	7028.6	9147.4	12022.6	12918.6	13069.6
12.5°	7063.6	10125.1	12860.5	12827.8	12637.4
15°	7121.7	11092.3	12963.7	12097.0	11812.7
17.5°	7182.8	11910.6	12513.5	11301.7	11054.0
20°	7282.2	12517.9	11813.2	10594.7	10313.2
22.5°	7425.4	12851.9	11078.9	9955.2	9771.6
25°	7610.2	12873.5	10349.6	9370.0	9138.7
27.5°	7857.8	12574.9	9650.6	8796.7	8552.4
30°	8194.8	12003.0	9001.1	8105.4	7802.3
32.5°	8652.3	11180.1	8331.4	7270.9	6931.0
35°	9218.2	10309.3	7539.9	6279.1	5912.0
37.5°	9835.7	9342.5	6579.3	5400.9	5187.1
40°	10500.0	8346.2	5440.7	4579.2	4426.1
42.5°	11018.4	7263.2	4383.1	3805.4	3642.6
45°	11282.7	5882.6	3473.2	3056.2	2927.8
47.5°	11179.8	4566.4	2753.4	2428.4	2389.9
50°	10579.2	3371.8	2204.1	2000.4	1984.4
52.5°	9640.3	2513.2	1820.7	1694.6	1667.1
55°	8343.9	1994.7	1581.0	1465.3	1461.0
57.5°	7005.4	1694.6	1435.1	1345.6	1314.4
60°	5577.8	1511.0	1324.6	1223.4	1160.2
62.5°	4372.1	1382.6	1243.2	1106.0	1046.9
65°	3345.1	1262.9	1163.2	995.3	944.6
67.5°	2493.6	1148.7	1065.3	879.1	849.4
70°	1816.8	1031.5	953.8	781.8	758.3
72.5°	1294.9	914.6	842.2	690.5	664.6
75°	890.6	785.3	720.3	594.3	570.3
77.5°	600.9	653.3	600.3	507.4	497.4
80°	401.3	518.1	485.5	430.0	423.8
82.5°	243.5	376.0	383.2	349.7	332.8
85°	132.6	243.5	287.1	261.6	237.3
87.5°	51.9	134.9	197.8	177.6	167.3
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



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**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)