

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: P827806

Luminaire Tested: **OHBL-36SE-N-UNV-L930-CD-UPL36**

Issue Date: 5/3/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P827806  
REPORT IS A COMBINATION OF REPORTS P826320 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-N-UNV-L930-CD-UPL36  
Description:  
Light Source: -  
Ballast/Driver: -

**Summary**

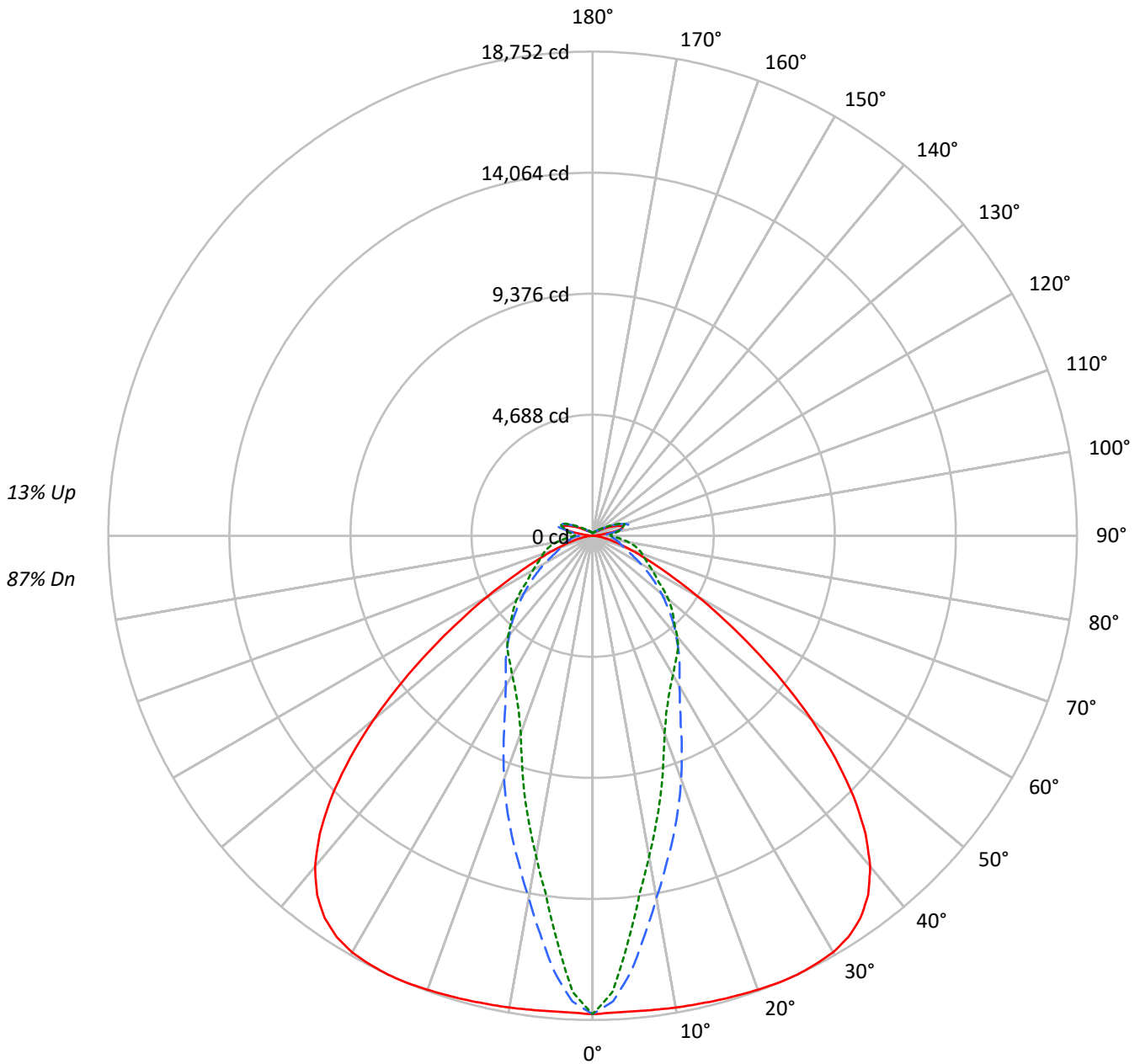
Lumens per Lamp: N/A  
Luminaire Lumens: 30235.8 lumens  
Efficiency: N/A  
Efficacy: 126.1 lumens/watt  
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')  
CIE Type: Semi-Direct

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

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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	116	116	116	116	112	112	112	112	104	104	104	97	97	97	90	90	90	87				87															
1	107	102	98	95	103	99	95	92	92	89	87	86	84	82	81	79	77	75				75															
2	98	91	84	79	94	88	82	77	82	78	74	77	73	70	72	69	67	64				64															
3	90	81	73	68	87	78	72	66	74	68	64	69	65	61	65	62	58	56				56															
4	83	73	65	59	80	71	63	58	67	60	56	63	58	53	59	55	51	49				49															
5	77	66	58	52	74	64	56	51	60	54	49	57	52	47	54	50	46	44				44															
6	72	60	52	46	69	58	51	45	55	49	44	52	47	43	50	45	41	39				39															
7	67	55	47	41	65	53	46	41	51	44	39	48	43	38	46	41	37	35				35															
8	63	50	43	37	61	49	42	37	47	40	36	45	39	35	43	38	34	32				32															
9	59	47	39	34	57	46	38	34	44	37	33	42	36	32	40	35	31	29				29															
10	55	43	36	31	54	42	35	31	41	34	30	39	33	29	37	32	29	27				27															

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

	0°	45°	90°
0°	29296	29296	29296
5°	29113	26691	24926
10°	29317	22493	20084
15°	29761	19246	16567
20°	30461	16281	13469
25°	31367	13483	11865
30°	32288	11621	11086
35°	32780	10597	10629
40°	32024	9578	10154
45°	29258	8662	9476
50°	24486	7659	8976
55°	18427	6715	8076
60°	12759	5766	7839
65°	8449	4973	7812
70°	5647	4677	8399
75°	3795	4838	9306
80°	2474	5383	10186
85°	1290	6794	12146



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1559.4	5.2
10°-20°	3668.3	12.1
20°-30°	4598.2	15.2
30°-40°	4879.2	16.1
40°-50°	4411.6	14.6
50°-60°	3198.7	10.6
60°-70°	2007.3	6.6
70°-80°	1328.4	4.4
80°-90°	771.5	2.6
90°-100°	593.1	2.0
100°-110°	1263.1	4.2
110°-120°	991.6	3.3
120°-130°	471.0	1.6
130°-140°	234.9	0.8
140°-150°	136.0	0.4
150°-160°	76.8	0.3
160°-170°	35.6	0.1
170°-180°	10.9	0.0
0°-30°	9825.9	32.5
0°-40°	14705.1	48.6
0°-60°	22315.4	73.8
0°-90°	26422.7	87.4
90°-120°	2847.8	9.4
90°-150°	3689.8	12.2
90°-180°	3813.0	12.6
0°-180°	30235.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	18524	18524	18524	18524	18524	
5°	18488	18013	16955	16169	15762	###
15°	18628	15184	12059	10725	10238	5283
25°	18752	11740	8075	7167	6939	8663
35°	18080	7805	5860	5677	5675	11240
45°	14293	4944	4247	4350	4424	10888
55°	7567	3064	2772	3006	3114	6837
65°	2706	1777	1604	2056	2285	2816
75°	836	957	1077	1673	1774	932
85°	146	397	788	1097	1007	175
90°	6	205	508	702	708	14
95°	57	217	535	716	754	193
105°	1208	1269	1413	1221	1151	1149
115°	852	876	1025	1080	1077	861
125°	431	453	535	554	544	404
135°	260	269	299	326	327	206
145°	197	203	211	227	226	125
155°	163	171	175	179	175	73
165°	122	124	124	125	126	35
175°	112	112	112	112	113	11
180°	110	110	110	110	110	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	18524.5	18524.5	18524.5	18524.5	18524.5
2.5°	18485.7	18379.9	18050.2	17849.2	17679.9
5°	18487.5	18013.2	16955.4	16169.0	15761.8
7.5°	18513.9	17459.6	15553.7	14406.0	13958.1
10°	18554.5	16773.7	14245.5	13022.0	12604.1
12.5°	18584.4	16001.5	13094.3	11837.2	11378.8
15°	18628.5	15183.5	12059.4	10724.7	10238.1
17.5°	18669.0	14413.0	11036.7	9642.2	9100.9
20°	18709.6	13582.6	10014.2	8577.3	8131.3
22.5°	18748.4	12706.4	9016.3	7750.4	7445.4
25°	18751.9	11740.2	8074.8	7166.8	6939.4
27.5°	18706.0	10738.8	7311.4	6678.4	6537.4
30°	18626.7	9767.3	6719.0	6325.9	6225.4
32.5°	18429.3	8776.5	6260.6	5985.6	5927.4
35°	18080.2	7805.1	5860.4	5677.1	5675.3
37.5°	17530.1	6942.9	5426.7	5395.0	5433.8
40°	16717.4	6188.4	5015.9	5100.5	5100.5
42.5°	15633.1	5532.5	4643.9	4730.3	4707.4
45°	14293.1	4943.6	4247.2	4349.5	4423.5
47.5°	12739.9	4425.3	3841.7	4039.2	4141.4
50°	11050.9	3931.7	3471.5	3723.6	3840.0
52.5°	9280.7	3475.0	3110.1	3399.2	3492.6
55°	7567.1	3064.2	2771.5	3006.0	3113.5
57.5°	6015.5	2672.8	2440.1	2662.2	2884.4
60°	4680.9	2336.1	2128.0	2445.4	2667.5
62.5°	3575.5	2036.4	1835.3	2242.6	2464.8
65°	2706.3	1777.2	1604.4	2055.8	2284.9
67.5°	2039.8	1553.3	1424.5	1920.0	2143.9
70°	1532.1	1336.4	1280.0	1835.3	2036.4
72.5°	1131.9	1137.2	1165.4	1761.3	1914.7
75°	835.7	957.3	1077.3	1673.2	1773.6
77.5°	597.7	793.4	997.9	1567.4	1602.6
80°	414.4	647.1	915.0	1428.1	1398.1
82.5°	259.2	518.3	841.0	1274.7	1191.8
85°	146.3	396.6	788.1	1096.6	1006.7
87.5°	65.2	296.2	689.3	855.1	798.6
90°	6.5	205.3	507.6	701.7	707.8
92.5°	23.8	186.0	483.6	666.5	688.9
95°	57.1	216.6	535.4	716.3	753.9
97.5°	311.1	427.2	659.4	844.9	885.4
100°	659.7	757.7	863.9	987.8	1021.6
102.5°	1029.3	1115.3	1133.9	1099.0	1088.9
105°	1208.0	1269.1	1413.0	1221.2	1151.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	995.7	1040.5	1192.0	1246.9	1229.9
115°	852.0	875.9	1025.2	1080.3	1077.4
117.5°	733.3	751.7	883.3	924.2	917.1
120°	620.2	641.3	755.1	780.8	774.4
122.5°	517.5	542.9	636.7	658.6	646.3
125°	431.0	452.6	534.6	553.7	543.9
127.5°	371.0	379.4	448.9	469.6	467.8
130°	321.7	331.7	382.9	409.2	407.6
132.5°	286.0	296.0	335.8	362.9	365.4
135°	260.1	269.3	298.7	325.8	326.6
137.5°	239.1	249.3	268.2	295.2	296.0
140°	221.3	229.7	245.2	269.5	269.5
142.5°	208.6	215.2	226.3	246.3	246.3
145°	197.4	203.2	210.7	227.3	226.3
147.5°	187.7	194.4	200.2	209.8	208.9
150°	178.8	186.5	189.7	196.7	195.7
152.5°	170.7	178.4	181.6	186.0	185.0
155°	163.4	171.1	175.3	178.7	175.2
157.5°	135.8	138.2	140.6	141.5	141.5
160°	131.0	132.6	135.0	135.0	135.8
162.5°	126.1	127.7	129.3	130.1	131.0
165°	122.1	123.7	124.5	125.3	126.1
167.5°	118.8	119.6	120.4	121.2	121.2
170°	115.6	116.4	117.2	117.2	118.0
172.5°	113.2	114.0	114.8	114.8	114.8
175°	111.6	111.6	112.4	112.4	113.2
177.5°	109.9	110.7	110.7	110.7	111.6
180°	109.9	109.9	109.9	109.9	109.9



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	1219.3	1279.9	1446.5	1385.2	1256.9
110°	1128.1	1188.0	1349.3	1368.4	1316.9



(END OF REPORT)