

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: P827798

Luminaire Tested: **OHBL-36HE-W-UNV-L930-CD-UPL36**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P827798  
REPORT IS A COMBINATION OF REPORTS P826316 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-W-UNV-L930-CD-UPL36  
Description:  
Light Source: -  
Ballast/Driver: -

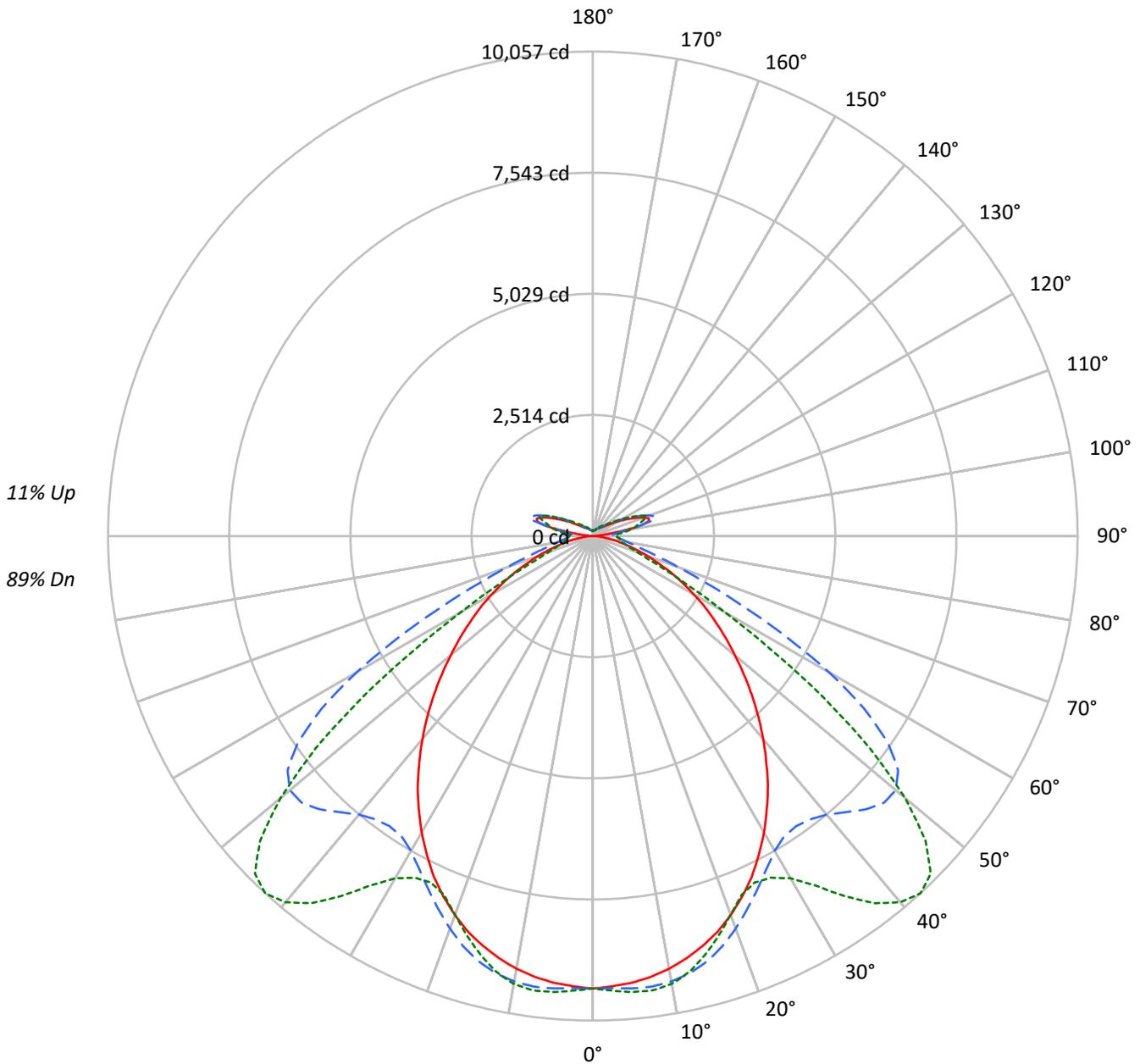
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 31023.1 lumens  
Efficiency: N/A  
Efficacy: 128.8 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62  
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 (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	105	105	105	98	98	98	92	92	92	89																			
1	107	102	98	94	103	99	95	92	92	90	87	87	84	82	81	80	78	75																			
2	97	89	83	77	94	87	81	76	81	76	72	76	72	69	72	69	66	63																			
3	89	79	71	64	85	76	69	63	72	66	61	67	62	58	63	59	56	53																			
4	81	70	61	55	78	67	60	54	64	57	52	60	54	50	57	52	48	45																			
5	74	62	53	47	72	60	52	46	57	50	44	54	48	43	51	46	41	39																			
6	69	56	47	41	66	54	46	40	51	44	39	48	42	37	46	40	36	34																			
7	63	50	42	36	61	49	41	35	46	39	34	44	38	33	42	36	32	30																			
8	59	46	37	31	57	44	37	31	42	35	30	40	34	29	38	33	29	26																			
9	55	42	34	28	53	41	33	28	39	32	27	37	31	26	35	30	26	24																			
10	51	38	30	25	50	37	30	25	36	29	24	34	28	24	32	27	23	21																			

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

	0°	45°	90°
0°	14857	14857	14857
5°	14656	14843	15026
10°	14411	14826	15044
15°	14069	14588	14562
20°	13625	14093	13848
25°	13052	13492	13571
30°	12314	13048	14603
35°	11483	13296	17088
40°	10533	14409	19755
45°	9546	16356	21234
50°	8524	18100	19761
55°	7561	18095	15099
60°	6585	15326	9231
65°	5562	10598	5592
70°	4423	6864	4037
75°	3258	4933	3743
80°	2215	4352	4224
85°	1340	4823	6676



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	897.7	2.9
10°-20°	2542.0	8.2
20°-30°	3719.9	12.0
30°-40°	4831.0	15.6
40°-50°	5899.3	19.0
50°-60°	5195.2	16.7
60°-70°	2707.3	8.7
70°-80°	1161.0	3.7
80°-90°	563.8	1.8
90°-100°	484.3	1.6
100°-110°	1170.1	3.8
110°-120°	929.9	3.0
120°-130°	446.9	1.4
130°-140°	226.0	0.7
140°-150°	129.4	0.4
150°-160°	72.9	0.2
160°-170°	35.6	0.1
170°-180°	10.9	0.0
0°-30°	7159.6	23.1
0°-40°	11990.6	38.7
0°-60°	23085.1	74.4
0°-90°	27517.1	88.7
90°-120°	2584.3	8.3
90°-150°	3386.6	10.9
90°-180°	3506.0	11.3
0°-180°	31023.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	9394	9394	9394	9394	9394	
5°	9307	9378	9429	9512	9502	883
15°	8806	9054	9141	9072	8999	2480
25°	7803	8221	8081	7929	7937	3581
35°	6334	7002	7353	8575	9124	3948
45°	4664	5868	8020	9710	9913	3596
55°	3105	5140	7469	6548	5821	2787
65°	1782	3561	3419	1901	1636	1763
75°	718	1666	1098	752	713	782
85°	152	594	559	547	553	169
90°	8	254	420	480	491	15
95°	54	226	427	514	537	190
105°	1202	1262	1311	1062	986	1143
115°	845	862	945	977	973	854
125°	424	445	503	516	510	398
135°	255	260	287	312	315	201
145°	192	192	198	213	218	122
155°	158	161	159	161	161	72
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°	9394.1	9394.1	9394.1	9394.1	9394.1
2.5°	9353.5	9394.1	9396.1	9452.9	9446.8
5°	9306.9	9377.9	9428.6	9511.7	9501.6
7.5°	9230.0	9341.4	9430.6	9521.8	9513.7
10°	9120.5	9272.5	9390.0	9465.0	9440.7
12.5°	8978.6	9179.3	9294.8	9311.0	9264.4
15°	8806.3	9053.6	9140.7	9071.8	8998.9
17.5°	8611.7	8901.6	8932.0	8782.0	8690.8
20°	8368.5	8698.9	8668.5	8461.8	8360.4
22.5°	8099.0	8475.9	8378.7	8161.8	8064.5
25°	7803.1	8220.6	8080.7	7928.7	7936.9
27.5°	7456.5	7930.8	7795.0	7863.9	7993.6
30°	7103.9	7626.8	7543.7	7944.9	8200.3
32.5°	6716.8	7314.6	7389.6	8182.1	8599.6
35°	6333.7	7002.5	7353.2	8575.3	9124.5
37.5°	5910.0	6686.3	7411.9	9029.2	9604.9
40°	5498.6	6378.2	7545.7	9436.6	9923.1
42.5°	5079.1	6102.6	7770.7	9677.9	10056.9
45°	4663.6	5867.5	8020.0	9710.3	9912.9
47.5°	4248.1	5668.9	8192.2	9452.9	9359.6
50°	3846.8	5492.5	8204.3	8834.7	8453.7
52.5°	3471.9	5330.4	7981.4	7849.7	7257.9
55°	3105.1	5139.9	7468.7	6548.5	5820.9
57.5°	2770.6	4876.4	6678.2	5150.1	4355.5
60°	2415.9	4519.7	5656.7	3767.8	3141.5
62.5°	2089.6	4075.9	4511.6	2622.6	2257.8
65°	1781.6	3561.0	3419.2	1901.1	1635.6
67.5°	1455.2	3028.0	2523.3	1386.3	1216.1
70°	1199.9	2533.5	1878.8	1078.2	978.9
72.5°	938.4	2063.3	1404.6	875.6	820.9
75°	717.5	1666.0	1098.5	751.9	713.4
77.5°	529.0	1317.4	883.7	664.8	628.3
80°	370.9	1037.7	739.8	593.9	579.7
82.5°	249.3	802.6	630.3	565.5	567.5
85°	152.0	593.9	559.4	547.2	553.3
87.5°	73.0	421.5	480.3	498.6	504.6
90°	8.5	254.5	419.8	479.7	490.7
92.5°	20.2	212.7	386.5	454.6	469.6
95°	54.2	225.9	427.3	514.3	537.4
97.5°	306.4	428.3	545.6	653.2	678.8
100°	655.2	755.2	751.7	806.3	828.6
102.5°	1022.9	1109.7	1025.6	929.5	909.3
105°	1202.0	1262.5	1310.9	1062.4	985.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	990.2	1029.2	1105.4	1130.5	1108.7
115°	844.7	861.8	945.3	977.3	973.2
117.5°	726.4	740.5	813.9	835.0	828.1
120°	613.2	629.4	696.2	709.2	704.8
122.5°	510.5	532.0	592.3	606.6	598.1
125°	424.1	444.7	502.9	516.0	509.9
127.5°	363.8	370.7	426.6	442.8	444.8
130°	314.4	320.9	366.3	388.2	390.7
132.5°	280.5	287.0	323.4	346.1	352.6
135°	254.6	260.3	287.0	311.8	314.6
137.5°	233.6	238.5	257.5	281.9	286.7
140°	215.8	220.7	233.7	257.1	259.2
142.5°	203.4	206.1	216.3	234.9	236.9
145°	192.5	192.4	198.5	213.1	217.9
147.5°	182.8	184.0	188.0	196.9	199.7
150°	173.9	176.3	175.4	181.1	186.0
152.5°	165.8	168.2	167.3	168.1	173.1
155°	158.5	160.9	159.2	160.9	160.9
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°	1215.3	1270.5	1348.8	1242.6	<i>1106.0</i>
110°	1122.4	1177.5	1254.1	1240.5	<i>1180.7</i>



(END OF REPORT)