

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: P828688

Luminaire Tested: **OHBL-36HE-A-UNV-L950-CD-UPL36**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P828688  
REPORT IS A COMBINATION OF REPORTS P826311 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-A-UNV-L950-CD-UPL36  
Description:  
Light Source: -  
Ballast/Driver: -

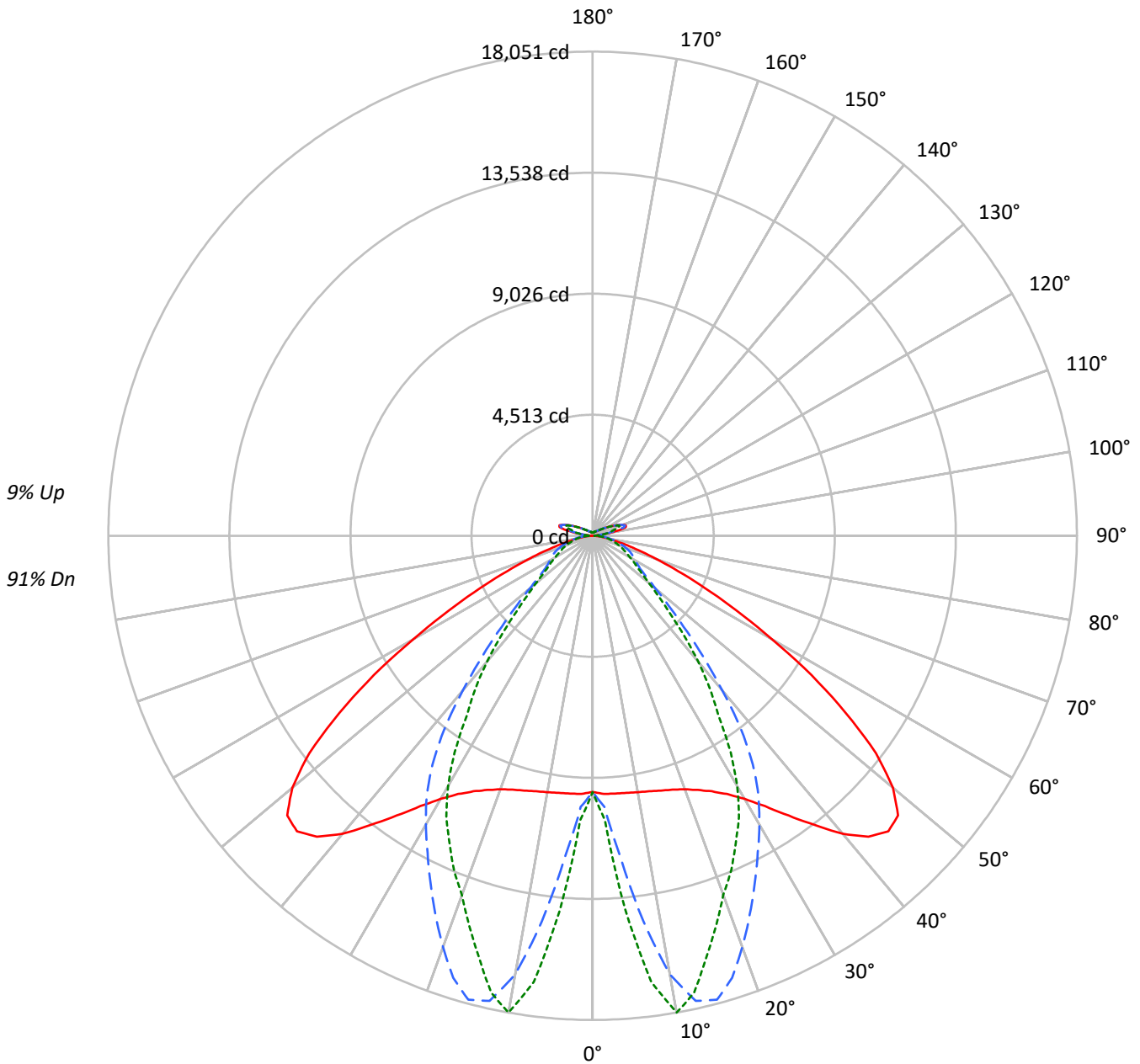
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33766.7 lumens  
Efficiency: N/A  
Efficacy: 140.2 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): 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

TEST NUMBER: P828688

CATALOG NUMBER: OHBL-36HE-A-UNV-L950-CD-UPL36

### Luminous Intensity Polar Plot





TEST NUMBER: P828688

CATALOG NUMBER: OHBL-36HE-A-UNV-L950-CD-UPL36

**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	100	100	100	94	94	94	91																			
1	108	104	101	98	105	101	98	95	95	93	91	90	88	86	85	84	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	90	81	75	70	77	72	68	73	69	65	70	66	63	61																			
4	86	75	68	62	83	73	66	61	70	64	59	67	62	58	64	59	56	54																			
5	80	68	60	55	77	67	59	54	64	57	53	61	55	51	58	54	50	48																			
6	74	62	54	49	72	61	53	48	58	52	47	56	50	46	53	49	45	43																			
7	69	57	49	44	67	56	48	43	53	47	42	51	46	41	49	44	40	39																			
8	65	52	45	39	63	51	44	39	49	43	38	47	42	38	46	41	37	35																			
9	60	48	41	36	59	47	40	35	46	39	35	44	38	34	42	37	34	32																			
10	57	45	38	33	55	44	37	32	42	36	32	41	35	31	40	34	31	29																			

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

	0°	45°	90°
0°	15106	15106	15106
5°	15193	19008	22144
10°	15338	26218	28763
15°	15714	28574	26400
20°	16375	26525	23593
25°	17581	23867	21581
30°	19619	21502	19190
35°	23083	18830	15292
40°	27780	14349	12170
45°	31898	9783	8662
50°	32375	6716	6406
55°	28063	5290	5234
60°	20998	4956	4709
65°	14424	4979	4460
70°	9249	4813	4319
75°	5586	4468	4133
80°	3309	3944	4264
85°	1614	3418	3954



TEST NUMBER: P828688

CATALOG NUMBER: OHBL-36HE-A-UNV-L950-CD-UPL36

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1247.0	3.7
10°-20°	4401.4	13.0
20°-30°	6485.7	19.2
30°-40°	6815.4	20.2
40°-50°	5215.1	15.4
50°-60°	3149.1	9.3
60°-70°	1921.7	5.7
70°-80°	1048.9	3.1
80°-90°	374.8	1.1
90°-100°	239.2	0.7
100°-110°	1083.4	3.2
110°-120°	896.7	2.7
120°-130°	424.4	1.3
130°-140°	214.9	0.6
140°-150°	125.6	0.4
150°-160°	73.7	0.2
160°-170°	38.3	0.1
170°-180°	11.7	0.0
0°-30°	12134.1	35.9
0°-40°	18949.5	56.1
0°-60°	27313.6	80.9
0°-90°	30659.0	90.8
90°-120°	2219.3	6.6
90°-150°	2984.1	8.8
90°-180°	3108.0	9.2
0°-180°	33766.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	9552	9552	9552	9552	9552	
5°	9648	10351	12075	13483	14003	922
15°	9836	15320	17904	16708	16315	2797
25°	10510	17780	14294	12941	12622	4912
35°	12731	14238	10414	8672	8165	8076
45°	15583	8125	4797	4221	4044	11774
55°	11524	2755	2184	2024	2018	10183
65°	4620	1744	1606	1375	1305	4734
75°	1230	1085	995	821	788	1415
85°	183	336	396	361	328	226
90°	7	43	55	63	64	15
95°	54	108	144	183	196	201
105°	1284	1282	1205	896	810	1221
115°	896	883	890	896	888	905
125°	441	456	467	459	450	415
135°	261	267	274	276	277	206
145°	190	194	198	201	202	121
155°	153	156	158	160	160	72
165°	131	133	134	135	136	38
175°	120	120	121	121	122	12
180°	118	118	118	118	118	



TEST NUMBER: P828688

CATALOG NUMBER: OHBL-36HE-A-UNV-L950-CD-UPL36

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	9552.1	9552.1	9552.1	9552.1	9552.1
2.5°	9630.3	9728.6	10116.1	10518.4	10616.3
5°	9648.0	10350.8	12074.8	13482.6	14002.9
7.5°	9668.4	11358.9	14501.8	16225.4	16777.1
10°	9707.3	12633.5	16604.7	17842.1	18050.6
12.5°	9755.7	13984.1	17761.9	17716.8	17453.8
15°	9835.9	15319.8	17904.4	16707.5	16314.7
17.5°	9920.3	16449.9	17282.6	15609.0	15266.9
20°	10057.6	17288.7	16315.6	14632.5	14243.8
22.5°	10255.4	17750.0	15301.4	13749.3	13495.8
25°	10510.5	17779.9	14294.1	12941.2	12621.7
27.5°	10852.6	17367.4	13328.7	12149.4	11811.9
30°	11317.9	16577.7	12431.7	11194.6	10776.0
32.5°	11949.9	15441.0	11506.7	10042.0	9572.6
35°	12731.4	14238.4	10413.5	8672.3	8165.1
37.5°	13584.3	12903.1	9086.7	7459.4	7164.0
40°	14501.8	11527.2	7514.3	6324.3	6113.0
42.5°	15217.8	10031.3	6053.6	5255.7	5030.8
45°	15582.8	8124.6	4796.9	4221.0	4043.7
47.5°	15440.6	6306.8	3802.8	3353.9	3300.6
50°	14611.2	4656.8	3044.2	2762.8	2740.7
52.5°	13314.3	3471.0	2514.6	2340.5	2302.4
55°	11524.0	2755.0	2183.6	2023.9	2017.7
57.5°	9675.4	2340.5	1982.1	1858.4	1815.4
60°	7703.5	2086.9	1829.3	1689.7	1602.4
62.5°	6038.5	1909.6	1717.1	1527.4	1445.9
65°	4620.0	1744.1	1606.5	1374.7	1304.6
67.5°	3444.0	1586.4	1471.3	1214.1	1173.1
70°	2509.3	1424.6	1317.3	1079.8	1047.3
72.5°	1788.4	1263.2	1163.3	953.6	918.0
75°	1230.1	1084.6	994.9	820.8	787.7
77.5°	829.9	902.4	829.0	700.9	686.9
80°	554.2	715.6	670.5	593.9	585.3
82.5°	336.3	519.4	529.2	482.9	459.6
85°	183.1	336.3	396.5	361.3	327.7
87.5°	71.6	186.4	273.2	245.4	231.0
90°	7.0	42.6	54.8	62.6	63.5
92.5°	21.7	52.2	66.9	83.5	88.7
95°	53.9	107.8	143.5	182.6	196.5
97.5°	325.2	349.5	303.4	362.6	383.4
100°	698.2	716.4	555.6	559.9	577.3
102.5°	1093.8	1108.5	876.4	725.1	699.0
105°	1284.2	1281.6	1205.0	896.4	809.5



TEST NUMBER: P828688

CATALOG NUMBER: OHBL-36HE-A-UNV-L950-CD-UPL36

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1052.0	1054.6	1045.1	1041.6	1013.8
115°	895.5	883.4	890.3	896.4	887.7
117.5°	766.0	757.3	764.2	760.8	751.2
120°	644.3	644.3	653.0	640.8	633.8
122.5°	533.8	546.0	552.1	543.4	532.1
125°	440.8	456.5	466.9	459.1	450.4
127.5°	378.2	383.4	395.6	391.2	391.2
130°	325.2	332.1	341.7	343.4	341.7
132.5°	288.7	295.6	304.3	306.9	309.5
135°	260.8	266.9	273.9	276.5	277.4
137.5°	238.2	243.4	248.7	253.0	253.9
140°	219.1	224.3	229.5	233.0	233.0
142.5°	203.5	208.7	213.0	215.6	215.6
145°	189.5	193.9	198.2	200.8	201.7
147.5°	179.1	182.6	186.9	187.8	188.7
150°	169.5	172.2	175.6	177.4	178.2
152.5°	160.8	163.5	166.9	167.8	168.7
155°	153.0	155.6	158.2	160.0	160.0
157.5°	146.1	148.7	151.3	152.2	152.2
160°	140.8	142.6	145.2	145.2	146.1
162.5°	135.6	137.4	139.1	140.0	140.8
165°	131.3	133.0	133.9	134.8	135.6
167.5°	127.8	128.7	129.5	130.4	130.4
170°	124.3	125.2	126.1	126.1	126.9
172.5°	121.7	122.6	123.5	123.5	123.5
175°	120.0	120.0	120.9	120.9	121.7
177.5°	118.2	119.1	119.1	119.1	120.0
180°	118.2	118.2	118.2	118.2	118.2



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	1296.3	1299.0	1267.6	1116.4	965.1
110°	1196.4	1207.7	1187.7	1138.1	1069.4



(END OF REPORT)