

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: P828101

Luminaire Tested: **OHBL-36SE-MCL-UNV-L935-CD-UPL18**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P828101  
REPORT IS A COMBINATION OF REPORTS P826174 AND G3-2310-221-8  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-36SE-MCL-UNV-L935-CD-UPL18  
Description:  
Light Source: -  
Ballast/Driver: -

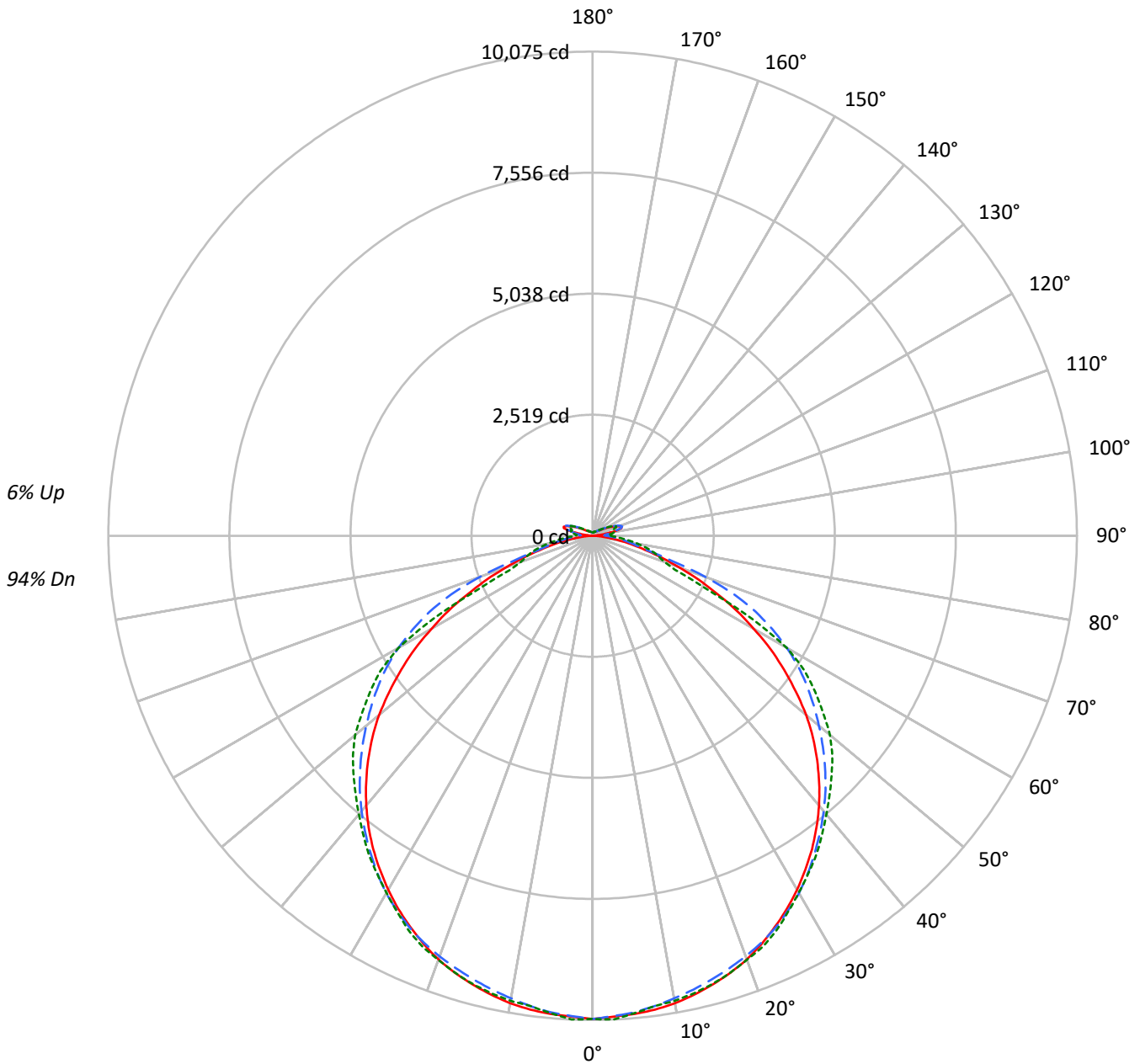
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29909.9 lumens  
Efficiency: N/A  
Efficacy: 133.9 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 223.3  
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: P828101

CATALOG NUMBER: OHBL-36SE-MCL-UNV-L935-CD-UPL18

### Luminous Intensity Polar Plot





TEST NUMBER: P828101

CATALOG NUMBER: OHBL-36SE-MCL-UNV-L935-CD-UPL18

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	96	96	96	96	96	96	94
1	108	103	99	95	104	100	97	93	95	92	89	90	88	85	85	84	82	82	82	82	79
2	98	90	84	78	95	88	82	77	83	78	74	79	75	71	75	72	69	69	69	69	66
3	90	79	71	65	87	77	70	64	73	67	62	70	65	60	67	62	59	59	59	59	56
4	82	70	62	55	79	69	61	54	65	58	53	62	56	52	59	55	50	50	50	50	48
5	75	63	54	47	73	61	53	47	59	51	46	56	50	45	54	48	44	44	44	44	42
6	70	56	48	41	67	55	47	41	53	46	40	51	44	39	48	43	38	38	38	38	36
7	64	51	43	36	62	50	42	36	48	41	35	46	40	35	44	38	34	34	34	34	32
8	60	47	38	32	58	46	38	32	44	37	32	42	36	31	41	35	31	31	31	31	29
9	56	43	35	29	54	42	34	29	40	33	28	39	32	28	37	32	28	28	28	28	26
10	52	39	32	26	51	39	31	26	37	30	26	36	30	25	35	29	25	25	25	25	23

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

	0°	45°	90°
0°	15901	15901	15901
5°	15730	15670	15769
10°	15607	15432	15660
15°	15441	15255	15623
20°	15274	15143	15554
25°	15019	15031	15489
30°	14745	14853	15272
35°	14428	14571	15193
40°	14036	14280	15062
45°	13519	13944	15066
50°	12847	13561	15068
55°	11835	13184	14646
60°	10545	12632	13705
65°	8905	11608	8822
70°	7020	9062	6536
75°	5096	5379	6850
80°	3359	4473	6905
85°	1704	4098	7261



TEST NUMBER: P828101

CATALOG NUMBER: OHBL-36SE-MCL-UNV-L935-CD-UPL18

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	948.0	3.2
10°-20°	2718.5	9.1
20°-30°	4152.0	13.9
30°-40°	5037.9	16.8
40°-50°	5280.2	17.7
50°-60°	4784.6	16.0
60°-70°	3207.9	10.7
70°-80°	1440.5	4.8
80°-90°	526.5	1.8
90°-100°	300.0	1.0
100°-110°	569.8	1.9
110°-120°	462.9	1.5
120°-130°	225.0	0.8
130°-140°	116.2	0.4
140°-150°	68.8	0.2
150°-160°	41.7	0.1
160°-170°	22.5	0.1
170°-180°	6.9	0.0
0°-30°	7818.6	26.1
0°-40°	12856.5	43.0
0°-60°	22921.3	76.6
0°-90°	28096.1	93.9
90°-120°	1332.7	4.5
90°-150°	1742.7	5.8
90°-180°	1814.0	6.1
0°-180°	29909.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	10054	10054	10054	10054	10054	
5°	9989	10024	9954	9985	9972	950
15°	9665	9627	9559	9643	9655	2729
25°	8979	8939	9002	9085	9059	4139
35°	7958	7977	8058	8144	8112	4974
45°	6605	6712	6837	7012	7033	5088
55°	4860	5094	5442	5660	5646	4338
65°	2852	3299	3745	3161	2580	2842
75°	1122	1628	1198	1226	1306	1227
85°	193	371	475	574	602	236
90°	5	144	274	346	364	14
95°	33	145	276	344	370	102
105°	623	645	604	468	444	592
115°	439	450	474	480	482	442
125°	218	230	250	254	254	206
135°	136	140	146	155	157	108
145°	103	106	109	111	112	66
155°	86	89	90	91	90	40
165°	78	78	78	79	79	22
175°	72	72	71	70	70	7
180°	70	70	70	70	70	



TEST NUMBER: P828101

CATALOG NUMBER: OHBL-36SE-MCL-UNV-L935-CD-UPL18

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	10054.4	10054.4	10054.4	10054.4	10054.4
2.5°	10013.8	10055.9	10003.6	10060.2	10074.8
5°	9989.0	10023.9	9954.1	9984.7	9971.6
7.5°	9943.9	9955.6	9872.7	9897.4	9871.2
10°	9877.1	9871.2	9773.8	9821.8	9827.7
12.5°	9778.2	9760.8	9673.5	9746.2	9747.7
15°	9664.8	9627.0	9558.7	9643.0	9654.7
17.5°	9534.0	9484.6	9439.5	9548.5	9531.1
20°	9381.3	9323.2	9314.4	9433.7	9390.1
22.5°	9192.3	9147.3	9167.6	9281.0	9253.4
25°	8978.6	8939.3	9001.9	9084.8	9058.6
27.5°	8753.2	8730.0	8801.2	8865.2	8814.3
30°	8506.2	8493.1	8587.6	8639.9	8575.9
32.5°	8237.2	8241.6	8331.7	8402.9	8343.3
35°	7958.1	7977.0	8058.3	8144.2	8112.2
37.5°	7651.3	7693.5	7774.9	7872.3	7838.8
40°	7327.1	7388.2	7478.3	7596.1	7565.5
42.5°	6976.8	7053.8	7170.1	7300.9	7298.0
45°	6604.6	6712.2	6837.2	7011.7	7033.4
47.5°	6217.8	6338.5	6497.0	6729.6	6763.1
50°	5797.8	5948.9	6146.7	6425.8	6446.1
52.5°	5329.6	5536.1	5797.8	6065.2	6040.5
55°	4860.0	5094.1	5441.6	5659.6	5646.5
57.5°	4391.9	4655.1	5076.7	5232.2	5230.8
60°	3868.6	4201.5	4662.3	4780.1	4663.8
62.5°	3384.4	3742.1	4220.3	4134.6	3736.2
65°	2852.3	3298.7	3745.0	3160.6	2580.5
67.5°	2379.8	2845.1	3180.9	2164.7	1853.6
70°	1904.5	2417.7	2480.2	1606.4	1584.7
72.5°	1482.8	2029.5	1711.1	1375.2	1445.1
75°	1122.3	1628.3	1197.9	1225.6	1305.5
77.5°	818.5	1250.2	931.9	1074.3	1139.8
80°	562.6	885.3	760.3	902.8	947.8
82.5°	353.2	584.4	609.2	726.9	773.4
85°	193.3	370.8	475.4	574.2	601.8
87.5°	80.0	223.9	363.4	443.4	466.7
90°	4.8	144.4	274.0	345.7	364.4
92.5°	12.2	122.0	246.4	311.9	328.8
95°	33.1	145.4	276.2	344.2	370.0
97.5°	165.4	238.6	339.3	405.1	424.3
100°	339.3	402.6	412.8	451.7	461.0
102.5°	530.0	564.0	477.2	460.9	460.2
105°	623.3	645.1	604.5	467.8	443.8



TEST NUMBER: P828101

CATALOG NUMBER: OHBL-36SE-MCL-UNV-L935-CD-UPL18

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	511.8	525.3	544.4	544.2	526.2
115°	439.2	449.9	473.8	480.4	482.5
117.5°	375.8	381.2	404.7	411.8	415.5
120°	315.8	323.1	345.3	350.1	349.8
122.5°	265.8	273.3	293.4	298.2	298.0
125°	218.5	230.0	250.3	253.8	253.7
127.5°	188.3	195.8	214.9	218.4	218.2
130°	165.0	172.2	184.5	191.2	192.0
132.5°	150.6	154.5	163.9	170.6	172.2
135°	136.4	140.3	146.0	154.9	157.2
137.5°	127.0	129.5	132.8	141.8	144.1
140°	117.8	120.3	121.4	128.9	131.2
142.5°	108.9	112.8	113.9	119.1	121.4
145°	103.1	106.2	108.7	111.0	112.4
147.5°	98.7	100.3	102.0	103.7	105.2
150°	93.7	95.3	97.0	97.8	98.7
152.5°	90.3	91.2	92.8	93.7	93.7
155°	86.2	89.3	90.2	91.0	89.5
157.5°	83.7	86.0	86.8	87.7	87.7
160°	81.2	82.7	83.5	84.3	84.3
162.5°	80.2	80.2	81.0	81.8	81.8
165°	77.7	78.5	78.5	79.3	79.3
167.5°	76.0	77.4	76.8	76.8	77.7
170°	74.3	74.3	75.2	73.7	73.7
172.5°	72.7	73.5	73.5	72.0	72.0
175°	71.8	71.8	71.2	69.8	69.8
177.5°	72.4	71.8	70.3	68.9	67.5
180°	70.3	70.3	70.3	70.3	70.3



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	630.6	650.9	646.2	532.4	462.8
110°	579.6	600.8	612.1	575.2	520.6



(END OF REPORT)