

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: P827956

Luminaire Tested: **OHBL-12SE-A-UNV-L935-CD-UPL18**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P827956  
REPORT IS A COMBINATION OF REPORTS P826149 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-12SE-A-UNV-L935-CD-UPL18  
Description:  
Light Source: -  
Ballast/Driver: -

**Summary**

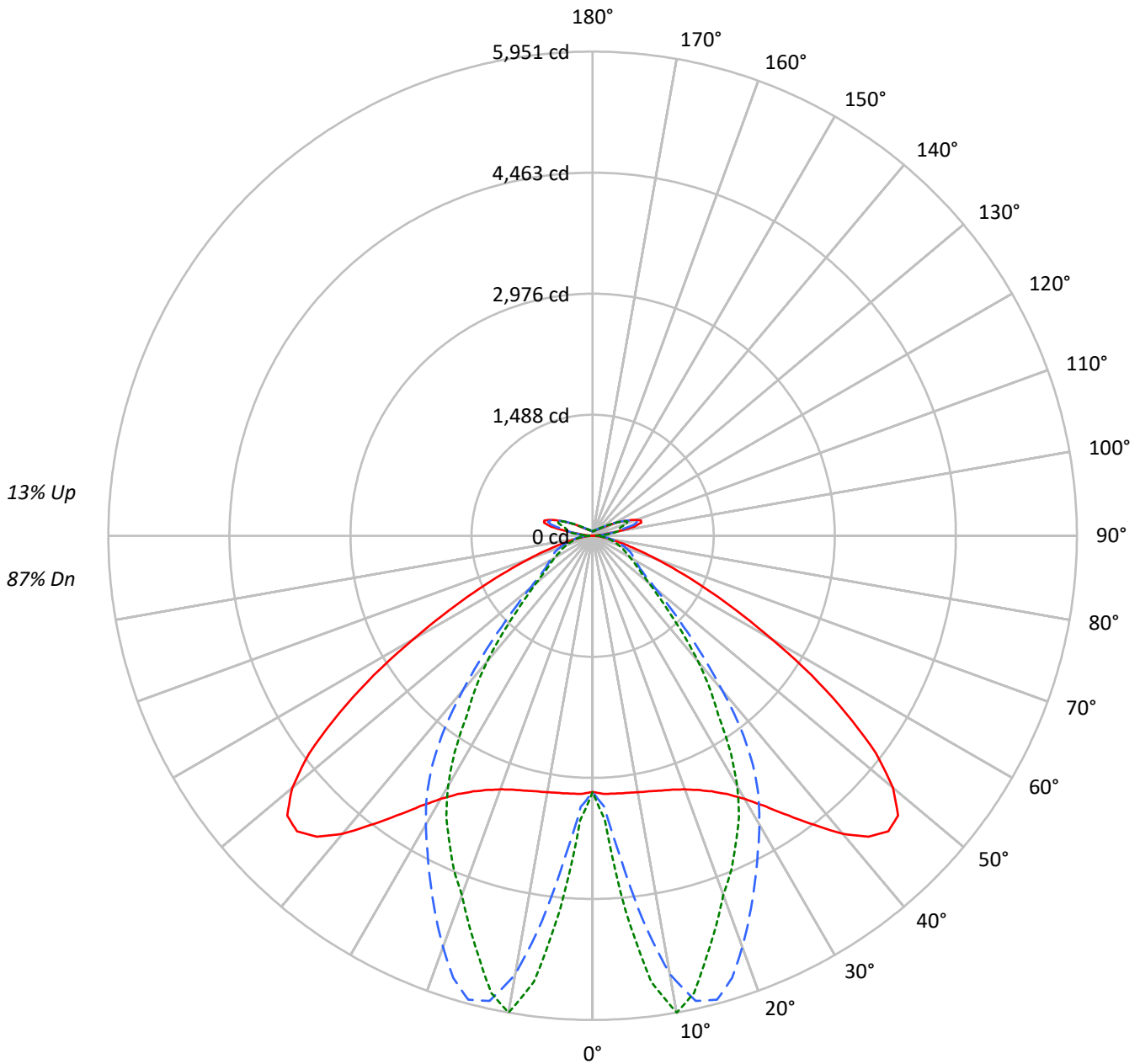
Lumens per Lamp: N/A  
Luminaire Lumens: 11597.4 lumens  
Efficiency: N/A  
Efficacy: 140.9 lumens/watt  
Spacing Criteria (0/90/45): 2.18 / 1.37 / 1.3  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 0.88' x H: 0.17')  
CIE Type: Semi-Direct

Input Watts (W): 82.3  
Input Voltage (V): NR  
Input Current (Ain): 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: P827956

CATALOG NUMBER: OHBL-12SE-A-UNV-L935-CD-UPL18

### Luminous Intensity Polar Plot





TEST NUMBER: P827956

CATALOG NUMBER: OHBL-12SE-A-UNV-L935-CD-UPL18

**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																			
1	108	104	100	97	104	100	97	94	94	91	89	88	86	84	82	81	79	76																			
2	99	92	87	82	96	89	84	80	84	80	76	79	76	73	74	72	69	67																			
3	92	83	76	70	88	80	74	69	76	70	66	71	67	63	67	64	61	58																			
4	85	75	67	61	82	72	65	60	68	63	58	65	60	56	61	57	54	52																			
5	79	68	60	54	76	66	58	53	62	56	51	59	54	50	56	52	48	46																			
6	73	61	54	48	71	60	53	47	57	51	46	54	49	44	51	47	43	41																			
7	68	56	48	43	66	55	48	42	52	46	41	50	44	40	47	43	39	37																			
8	64	52	44	39	62	50	43	38	48	42	37	46	40	36	44	39	35	34																			
9	60	48	40	35	58	47	40	35	45	38	34	43	37	33	41	36	32	31																			
10	56	44	37	32	54	43	36	32	41	35	31	40	34	30	38	33	30	28																			

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

	0°	45°	90°
0°	10245	10245	10245
5°	10217	12815	15019
10°	10229	17571	19508
15°	10392	19035	17905
20°	10736	17563	16002
25°	11424	15702	14636
30°	12628	14051	13015
35°	14709	12216	10371
40°	17507	9236	8254
45°	19855	6241	5875
50°	19870	4241	4345
55°	16940	3301	3550
60°	12425	3048	3194
65°	8325	3008	3025
70°	5166	2838	2930
75°	2979	2546	2803
80°	1646	2134	2893
85°	708	1686	2681



TEST NUMBER: P827956

CATALOG NUMBER: OHBL-12SE-A-UNV-L935-CD-UPL18

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	411.1	3.5
10°-20°	1451.1	12.5
20°-30°	2138.3	18.4
30°-40°	2247.0	19.4
40°-50°	1719.4	14.8
50°-60°	1038.2	9.0
60°-70°	633.6	5.5
70°-80°	345.8	3.0
80°-90°	125.1	1.1
90°-100°	142.7	1.2
100°-110°	495.5	4.3
110°-120°	425.7	3.7
120°-130°	204.5	1.8
130°-140°	102.1	0.9
140°-150°	59.3	0.5
150°-160°	34.6	0.3
160°-170°	17.9	0.2
170°-180°	5.5	0.0
0°-30°	4000.5	34.5
0°-40°	6247.5	53.9
0°-60°	9005.1	77.6
0°-90°	10109.6	87.2
90°-120°	1063.9	9.2
90°-150°	1429.8	12.3
90°-180°	1488.0	12.8
0°-180°	11597.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3149	3149	3149	3149	3149	
5°	3181	3413	3981	4445	4617	304
15°	3243	5051	5903	5508	5379	922
25°	3465	5862	4713	4267	4161	1620
35°	4198	4694	3433	2859	2692	2663
45°	5138	2679	1582	1392	1333	3882
55°	3799	908	720	667	665	3357
65°	1523	575	530	453	430	1561
75°	406	358	328	271	260	467
85°	60	111	131	119	108	75
90°	3	21	28	38	42	6
95°	32	68	108	139	159	100
105°	618	612	522	368	339	586
115°	428	432	432	427	426	431
125°	208	218	224	223	222	196
135°	123	126	130	132	132	98
145°	90	92	94	95	95	57
155°	72	73	74	75	75	34
165°	62	62	62	63	63	18
175°	56	56	57	57	57	5
180°	56	56	56	56	56	



TEST NUMBER: P827956

CATALOG NUMBER: OHBL-12SE-A-UNV-L935-CD-UPL18

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3149.2	3149.2	3149.2	3149.2	3149.2
2.5°	3175.1	3207.4	3335.3	3467.8	3500.1
5°	3180.8	3412.6	3981.0	4445.2	4616.7
7.5°	3187.6	3744.9	4781.2	5349.4	5531.3
10°	3200.4	4165.2	5474.5	5882.4	5951.2
12.5°	3216.3	4610.4	5856.0	5841.1	5754.4
15°	3242.8	5050.8	5902.9	5508.3	5378.8
17.5°	3270.7	5423.4	5698.0	5146.2	5033.4
20°	3315.9	5700.0	5379.1	4824.3	4696.1
22.5°	3381.1	5852.1	5044.8	4533.1	4449.5
25°	3465.3	5861.9	4712.7	4266.6	4161.2
27.5°	3578.0	5725.9	4394.3	4005.6	3894.3
30°	3731.4	5465.6	4098.6	3690.8	3552.8
32.5°	3939.8	5090.8	3793.7	3310.8	3156.0
35°	4197.5	4694.3	3433.2	2859.2	2692.0
37.5°	4478.7	4254.1	2995.8	2459.3	2361.9
40°	4781.2	3800.4	2477.4	2085.1	2015.4
42.5°	5017.2	3307.2	1995.8	1732.8	1658.6
45°	5137.5	2678.6	1581.5	1391.7	1333.2
47.5°	5090.7	2079.2	1253.8	1105.8	1088.2
50°	4817.2	1535.3	1003.7	910.9	903.6
52.5°	4389.7	1144.3	829.1	771.7	759.1
55°	3799.3	908.3	719.9	667.3	665.2
57.5°	3189.9	771.7	653.5	612.7	598.5
60°	2539.8	688.1	603.1	557.1	528.3
62.5°	1990.8	629.6	566.1	503.6	476.8
65°	1523.2	575.0	529.7	453.2	430.1
67.5°	1135.5	523.0	485.1	400.2	386.8
70°	827.3	469.7	434.3	356.0	345.3
72.5°	589.6	416.5	383.5	314.4	302.7
75°	405.5	357.6	328.0	270.7	259.7
77.5°	273.6	297.5	273.3	231.1	226.5
80°	182.8	235.9	221.1	195.8	193.0
82.5°	110.8	171.2	174.5	159.2	151.5
85°	60.3	110.8	130.8	119.1	108.0
87.5°	23.7	61.4	90.1	80.9	76.2
90°	3.3	20.8	28.3	37.5	41.7
92.5°	10.8	27.5	45.8	63.3	70.0
95°	31.7	68.3	107.5	139.2	159.2
97.5°	162.5	177.5	198.3	235.0	248.3
100°	335.0	351.7	295.0	309.2	314.2
102.5°	524.2	523.3	378.3	341.7	336.7
105°	617.5	611.7	521.7	367.5	339.2



TEST NUMBER: P827956

CATALOG NUMBER: OHBL-12SE-A-UNV-L935-CD-UPL18

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	501.7	505.0	495.0	481.7	460.8
115°	427.5	432.5	431.7	426.7	425.8
117.5°	364.2	366.7	368.3	366.7	367.5
120°	304.2	310.0	313.3	310.8	309.2
122.5°	254.2	261.7	265.8	263.3	261.7
125°	208.3	218.3	224.2	223.3	221.7
127.5°	176.7	184.2	191.7	190.8	189.2
130°	153.3	159.2	164.2	165.0	165.8
132.5°	137.5	140.0	145.0	145.8	147.5
135°	123.3	125.8	130.0	131.7	132.5
137.5°	112.5	115.0	118.3	120.0	120.8
140°	103.3	105.8	108.3	110.0	110.8
142.5°	95.8	98.3	100.8	101.7	102.5
145°	90.0	91.7	94.2	95.0	95.0
147.5°	84.2	85.8	87.5	89.2	89.2
150°	79.2	80.8	82.5	83.3	84.2
152.5°	75.8	76.7	78.3	79.2	79.2
155°	71.7	73.3	74.2	75.0	75.0
157.5°	69.2	70.0	70.8	71.7	71.7
160°	66.7	66.7	67.5	68.3	68.3
162.5°	64.2	64.2	65.0	65.8	65.8
165°	61.7	62.5	62.5	63.3	63.3
167.5°	60.0	60.0	60.8	60.8	61.7
170°	58.3	58.3	59.2	59.2	59.2
172.5°	56.7	57.5	57.5	57.5	57.5
175°	55.8	55.8	56.7	56.7	56.7
177.5°	55.0	55.8	55.8	55.8	55.8
180°	55.8	55.8	55.8	55.8	55.8



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	623.3	623.3	575.0	446.7	374.2
110°	570.8	577.5	552.5	502.5	445.0



(END OF REPORT)