

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: P827544

Luminaire Tested: **OHB-15SE-NL-UNV-L930-CD-UPL24**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P827544  
REPORT IS A COMBINATION OF REPORTS P826189 AND G3-2310-221-6  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHB-15SE-NL-UNV-L930-CD-UPL24  
Description:  
Light Source: -  
Ballast/Driver: -

**Summary**

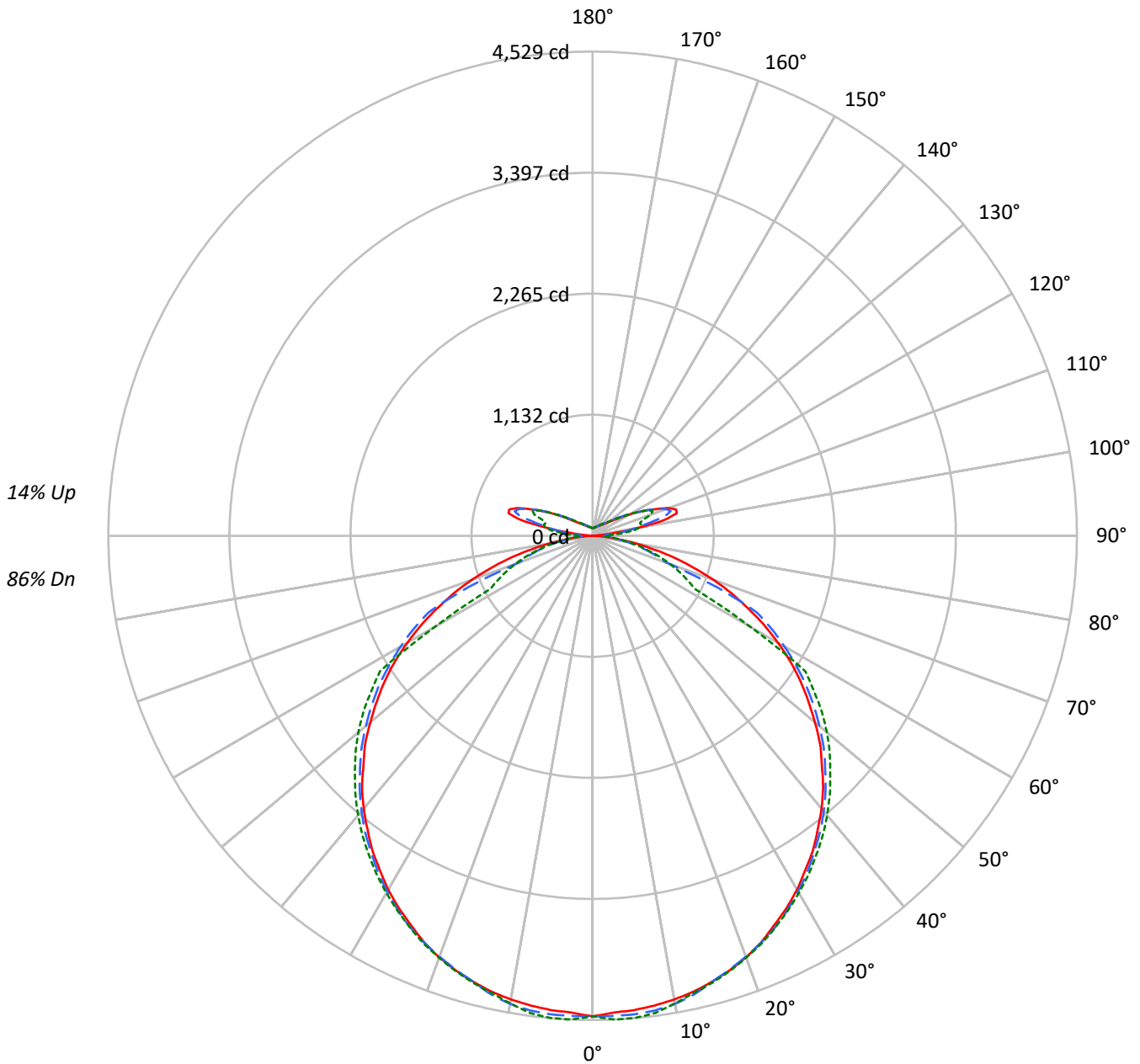
Lumens per Lamp: N/A  
Luminaire Lumens: 14578.5 lumens  
Efficiency: N/A  
Efficacy: 127.3 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 1.93' x L: 0.88' x H: 0.1')  
CIE Type: Semi-Direct

Input Watts (W): 114.5  
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				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	116	116	116	116	111	111	111	111	103	103	103	96	96	96	89	89	89	86	86	86	86
1	106	102	98	94	102	98	94	91	91	88	86	85	83	81	79	78	76	73	73	73	73
2	97	89	82	77	93	86	80	75	80	75	71	75	71	68	70	67	64	61	61	61	61
3	88	78	70	64	85	76	68	63	71	65	60	66	61	57	62	58	54	52	52	52	52
4	81	69	61	54	77	67	59	53	63	56	51	59	53	49	55	51	47	44	44	44	44
5	74	62	53	47	71	60	52	46	56	49	44	53	47	42	50	45	41	38	38	38	38
6	68	56	47	41	66	54	46	40	51	44	39	48	42	37	45	40	36	33	33	33	33
7	63	50	42	36	61	49	41	35	46	39	34	43	37	33	41	36	32	30	30	30	30
8	59	46	38	32	57	45	37	31	42	35	30	40	34	29	38	32	28	26	26	26	26
9	55	42	34	29	53	41	33	28	39	32	27	37	31	26	35	29	26	24	24	24	24
10	51	39	31	26	50	38	30	25	36	29	25	34	28	24	32	27	23	21	21	21	21

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

	0°	45°	90°
0°	28606	28606	28606
5°	28166	28413	28791
10°	27893	28143	28431
15°	27605	27578	28118
20°	27277	27206	27913
25°	26790	26889	27715
30°	26349	26440	27520
35°	25837	25927	27332
40°	25243	25422	27160
45°	24469	24769	26890
50°	23635	24038	26663
55°	22644	23144	26068
60°	21251	21907	20002
65°	19345	20361	13203
70°	16954	10231	12464
75°	13622	8941	11395
80°	9066	7081	9633
85°	3270	5091	7671



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	427.1	2.9
10°-20°	1222.9	8.4
20°-30°	1860.8	12.8
30°-40°	2262.4	15.5
40°-50°	2378.9	16.3
50°-60°	2172.2	14.9
60°-70°	1392.5	9.6
70°-80°	657.8	4.5
80°-90°	187.4	1.3
90°-100°	235.7	1.6
100°-110°	663.9	4.6
110°-120°	561.8	3.9
120°-130°	267.8	1.8
130°-140°	134.0	0.9
140°-150°	77.7	0.5
150°-160°	45.3	0.3
160°-170°	23.5	0.2
170°-180°	7.1	0.0
0°-30°	3510.8	24.1
0°-40°	5773.3	39.6
0°-60°	10324.3	70.8
0°-90°	12561.9	86.2
90°-120°	1461.4	10.0
90°-150°	1940.8	13.3
90°-180°	2017.0	13.8
0°-180°	14578.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4496	4496	4496	4496	4496	
5°	4454	4471	4494	4519	4528	424
15°	4319	4351	4318	4324	4328	1219
25°	4019	4026	4040	4046	4043	1855
35°	3592	3571	3612	3656	3646	2245
45°	3030	3024	3076	3148	3143	2342
55°	2374	2356	2436	2517	2524	2118
65°	1600	1600	1693	971	974	1586
75°	790	805	523	551	553	833
85°	103	131	163	177	167	153
90°	4	72	111	136	140	8
95°	45	113	191	254	279	134
105°	815	810	695	498	458	773
115°	563	570	573	569	559	567
125°	273	288	293	293	290	256
135°	162	165	171	172	174	128
145°	117	120	123	124	124	75
155°	94	95	97	98	98	44
165°	81	82	82	82	82	23
175°	73	74	74	74	74	7
180°	73	73	73	73	73	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4495.7	4495.7	4495.7	4495.7	4495.7
2.5°	4464.1	4479.1	4495.7	4517.0	4528.8
5°	4453.8	4471.2	4494.1	4518.6	4528.0
7.5°	4431.8	4456.2	4478.3	4495.7	4501.2
10°	4404.1	4433.4	4446.0	4444.4	4440.5
12.5°	4367.0	4397.9	4393.9	4375.8	4378.9
15°	4318.9	4351.3	4318.2	4324.5	4327.7
17.5°	4262.2	4293.7	4255.1	4267.7	4268.5
20°	4195.9	4219.6	4189.6	4199.9	4199.9
22.5°	4116.3	4132.8	4120.2	4127.3	4128.9
25°	4019.2	4025.5	4039.6	4046.0	4042.9
27.5°	3926.2	3918.2	3945.9	3960.8	3952.9
30°	3822.8	3810.2	3842.5	3867.0	3857.5
32.5°	3704.4	3696.6	3733.7	3762.8	3757.3
35°	3592.4	3571.1	3612.1	3656.3	3646.1
37.5°	3459.9	3447.3	3493.8	3540.4	3534.9
40°	3330.5	3309.2	3362.1	3417.3	3411.8
42.5°	3191.7	3166.4	3224.0	3290.3	3284.0
45°	3030.0	3024.5	3075.7	3148.3	3142.8
47.5°	2886.5	2858.8	2930.5	3000.8	3007.2
50°	2712.8	2702.7	2768.1	2853.3	2859.6
52.5°	2543.3	2536.1	2604.8	2690.8	2701.8
55°	2374.4	2356.3	2436.0	2517.2	2523.5
57.5°	2193.8	2174.9	2256.1	2344.5	2357.9
60°	2000.5	1982.4	2071.5	2153.6	1712.6
62.5°	1807.3	1794.7	1887.8	1337.1	1077.6
65°	1599.8	1599.8	1692.8	971.1	974.2
67.5°	1405.8	1393.2	1262.2	872.4	872.4
70°	1197.5	1202.2	727.3	764.4	765.2
72.5°	988.4	1005.8	628.0	657.9	659.4
75°	790.4	805.4	523.0	550.6	553.0
77.5°	580.6	446.5	420.4	441.8	442.6
80°	407.8	281.6	321.9	342.3	340.0
82.5°	238.2	197.2	235.9	250.9	250.0
85°	103.3	131.0	163.3	176.7	167.2
87.5°	33.1	81.2	101.7	109.7	108.8
90°	4.0	71.7	110.6	136.0	140.2
92.5°	13.7	71.1	121.3	161.3	172.7
95°	45.2	112.6	191.2	254.5	278.8
97.5°	219.1	251.8	290.1	361.6	389.9
100°	447.8	487.0	406.8	443.6	451.7
102.5°	693.5	696.5	514.5	473.0	467.4
105°	814.7	810.5	694.8	498.4	458.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	657.9	669.2	658.5	637.7	606.2
115°	563.3	570.5	572.9	568.9	559.3
117.5°	478.5	479.3	482.6	481.8	482.6
120°	396.1	405.0	412.2	408.2	403.4
122.5°	332.2	341.9	346.8	345.2	340.3
125°	273.2	287.8	293.4	292.6	290.2
127.5°	231.2	241.7	249.8	250.6	249.8
130°	201.3	207.7	215.8	216.6	217.4
132.5°	178.6	184.3	190.0	193.2	192.4
135°	161.7	164.9	170.6	172.2	173.8
137.5°	147.9	150.4	155.2	157.6	157.6
140°	135.8	139.0	143.1	144.7	145.5
142.5°	125.3	128.5	131.8	133.4	133.4
145°	117.2	120.4	122.9	123.7	124.5
147.5°	109.9	113.2	114.8	116.4	116.4
150°	104.3	105.9	108.3	109.1	109.9
152.5°	98.6	100.2	102.7	103.5	103.5
155°	93.8	95.4	97.0	97.8	97.8
157.5°	89.7	91.3	93.0	93.8	93.8
160°	86.5	87.3	88.9	89.7	89.7
162.5°	83.3	84.1	84.9	85.7	85.7
165°	80.8	81.6	82.4	82.4	82.4
167.5°	78.4	78.4	79.2	80.0	80.0
170°	76.0	76.8	76.8	77.6	77.6
172.5°	74.4	75.2	75.2	75.2	76.0
175°	72.8	73.6	73.6	74.4	74.4
177.5°	72.8	72.8	72.8	72.8	72.8
180°	72.8	72.8	72.8	72.8	72.8



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	818.0	825.1	765.2	596.4	493.0
110°	755.7	765.3	731.3	666.0	581.1



(END OF REPORT)