

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: P828256

Luminaire Tested: **OHBL-12SE-A-UNV-L940-CD-UPL18**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P828256  
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-L940-CD-UPL18  
Description:  
Light Source: -  
Ballast/Driver: -

**Summary**

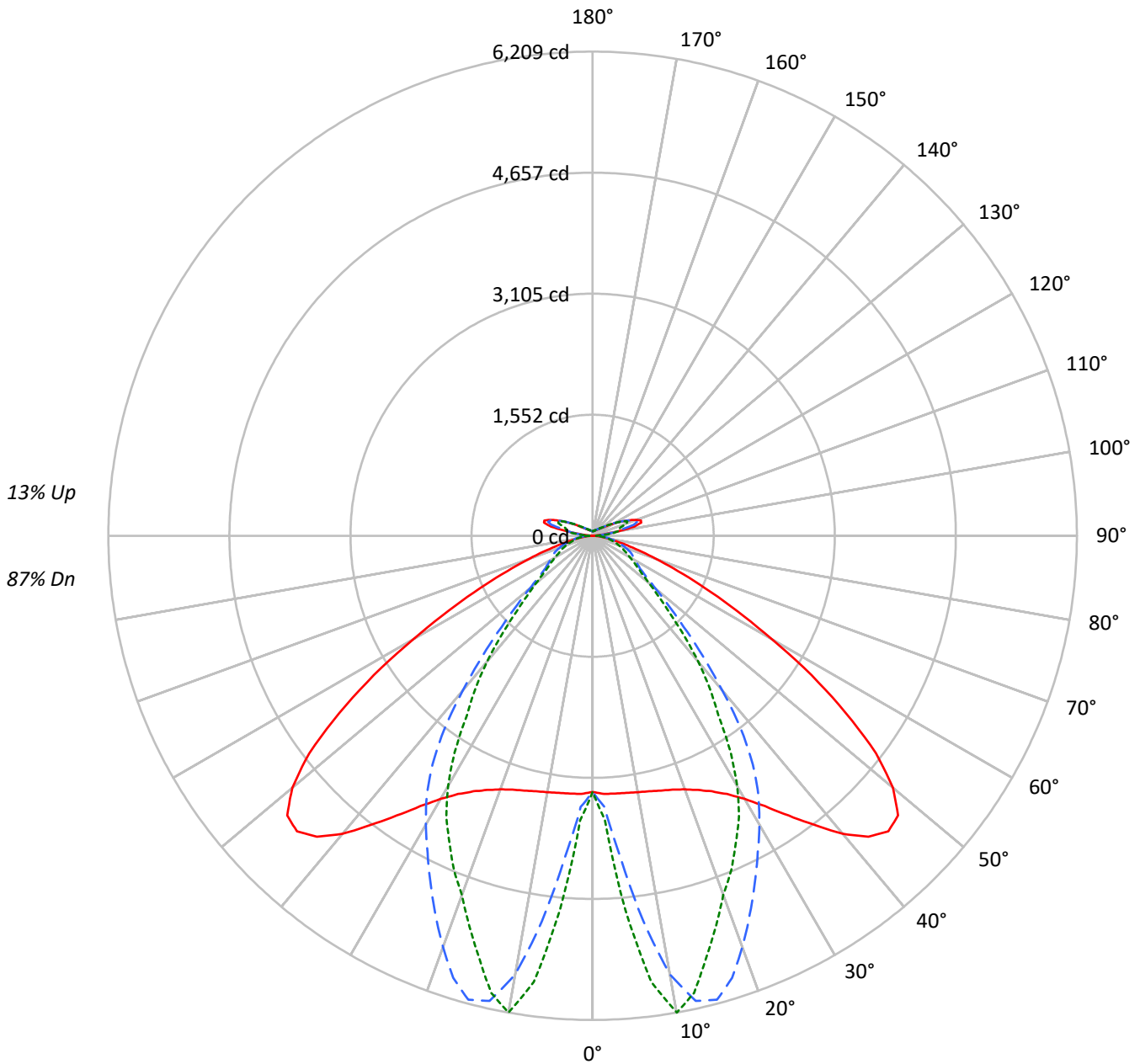
Lumens per Lamp: N/A  
Luminaire Lumens: 12100.0 lumens  
Efficiency: N/A  
Efficacy: 147.0 lumens/watt  
Spacing Criteria (0/90/45): 2.18 / 1.37 / 1.3  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 0.88' x H: 0.17')  
CIE Type: Semi-Direct

Input Watts (W): 82.3  
Input Voltage (V): NR  
Input Current (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	112	112	112	112	104	104	104	97	97	97	90	90	90	87			87
1	108	104	100	97	104	100	97	94	94	91	89	88	86	84	82	81	79	76			76
2	99	92	87	82	96	89	84	80	84	80	76	79	76	73	74	72	69	67			67
3	92	83	76	70	88	80	74	69	76	70	66	71	67	63	67	64	61	58			58
4	85	75	67	61	82	72	65	60	68	63	58	65	60	56	61	57	54	52			52
5	79	68	60	54	76	66	58	53	62	56	51	59	54	50	56	52	48	46			46
6	73	61	54	48	71	60	53	47	57	51	46	54	49	44	51	47	43	41			41
7	68	56	48	43	66	55	48	42	52	46	41	50	44	40	47	43	39	37			37
8	64	52	44	39	62	50	43	38	48	42	37	46	40	36	44	39	35	34			34
9	60	48	40	35	58	47	40	35	45	38	34	43	37	33	41	36	32	31			31
10	56	44	37	32	54	43	36	32	41	35	31	40	34	30	38	33	30	28			28

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

	0°	45°	90°
0°	10689	10689	10689
5°	10660	13370	15670
10°	10672	18332	20354
15°	10842	19860	18681
20°	11201	18324	16695
25°	11919	16383	15271
30°	13176	14660	13579
35°	15346	12746	10821
40°	18265	9636	8612
45°	20715	6511	6129
50°	20731	4425	4533
55°	17675	3444	3704
60°	12964	3180	3332
65°	8685	3138	3156
70°	5389	2961	3057
75°	3108	2657	2924
80°	1717	2227	3019
85°	739	1758	2797



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	429.0	3.5
10°-20°	1514.0	12.5
20°-30°	2230.9	18.4
30°-40°	2344.4	19.4
40°-50°	1793.9	14.8
50°-60°	1083.2	9.0
60°-70°	661.0	5.5
70°-80°	360.8	3.0
80°-90°	130.5	1.1
90°-100°	148.9	1.2
100°-110°	517.0	4.3
110°-120°	444.2	3.7
120°-130°	213.3	1.8
130°-140°	106.6	0.9
140°-150°	61.9	0.5
150°-160°	36.1	0.3
160°-170°	18.7	0.2
170°-180°	5.7	0.0
0°-30°	4173.9	34.5
0°-40°	6518.3	53.9
0°-60°	9395.3	77.6
0°-90°	10547.7	87.2
90°-120°	1110.0	9.2
90°-150°	1491.8	12.3
90°-180°	1552.0	12.8
0°-180°	12100.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3286	3286	3286	3286	3286	
5°	3319	3560	4154	4638	4817	317
15°	3383	5270	6159	5747	5612	962
25°	3615	6116	4917	4452	4342	1690
35°	4379	4898	3582	2983	2809	2778
45°	5360	2795	1650	1452	1391	4050
55°	3964	948	751	696	694	3503
65°	1589	600	553	473	449	1628
75°	423	373	342	282	271	487
85°	63	116	136	124	113	78
90°	4	22	30	39	44	6
95°	33	71	112	145	166	104
105°	644	638	544	383	354	611
115°	446	451	450	445	444	450
125°	217	228	234	233	231	204
135°	129	131	136	137	138	102
145°	94	96	98	99	99	59
155°	75	76	77	78	78	35
165°	64	65	65	66	66	18
175°	58	58	59	59	59	6
180°	58	58	58	58	58	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3285.7	3285.7	3285.7	3285.7	3285.7
2.5°	3312.7	3346.4	3479.8	3618.1	3651.8
5°	3318.7	3560.5	4153.5	4637.8	4816.7
7.5°	3325.7	3907.2	4988.4	5581.2	5771.0
10°	3339.1	4345.7	5711.7	6137.3	6209.1
12.5°	3355.7	4810.2	6109.8	6094.2	6003.8
15°	3383.4	5269.7	6158.7	5747.0	5611.9
17.5°	3412.4	5658.4	5944.9	5369.2	5251.5
20°	3459.6	5947.0	5612.2	5033.3	4899.6
22.5°	3527.6	6105.7	5263.4	4729.5	4642.3
25°	3615.4	6115.9	4916.9	4451.5	4341.6
27.5°	3733.0	5974.0	4584.8	4179.2	4063.1
30°	3893.1	5702.4	4276.2	3850.7	3706.7
32.5°	4110.6	5311.4	3958.1	3454.2	3292.8
35°	4379.4	4897.8	3582.0	2983.1	2808.7
37.5°	4672.7	4438.4	3125.7	2565.9	2464.3
40°	4988.4	3965.1	2584.8	2175.4	2102.8
42.5°	5234.6	3450.6	2082.3	1807.8	1730.5
45°	5360.1	2794.7	1650.0	1452.0	1390.9
47.5°	5311.3	2169.4	1308.1	1153.7	1135.3
50°	5025.9	1601.9	1047.2	950.4	942.7
52.5°	4579.9	1193.9	865.0	805.1	792.0
55°	3964.0	947.7	751.1	696.2	694.1
57.5°	3328.1	805.1	681.8	639.2	624.4
60°	2649.9	717.9	629.2	581.2	551.2
62.5°	2077.1	656.9	590.6	525.4	497.4
65°	1589.2	599.9	552.6	472.9	448.7
67.5°	1184.7	545.7	506.1	417.6	403.5
70°	863.1	490.0	453.2	371.4	360.3
72.5°	615.1	434.5	400.1	328.0	315.8
75°	423.1	373.1	342.2	282.4	270.9
77.5°	285.4	310.4	285.2	241.1	236.3
80°	190.7	246.1	230.7	204.3	201.4
82.5°	115.6	178.7	182.1	166.2	158.1
85°	62.9	115.6	136.4	124.2	112.7
87.5°	24.7	64.1	94.0	84.4	79.5
90°	3.5	21.7	29.6	39.1	43.5
92.5°	11.3	28.7	47.8	66.1	73.0
95°	33.0	71.3	112.2	145.2	166.1
97.5°	169.5	185.2	206.9	245.2	259.1
100°	349.5	366.9	307.8	322.6	327.8
102.5°	546.9	546.0	394.7	356.5	351.3
105°	644.3	638.2	544.3	383.4	353.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	523.4	526.9	516.4	502.5	480.8
115°	446.0	451.2	450.4	445.2	444.3
117.5°	379.9	382.6	384.3	382.6	383.4
120°	317.3	323.4	326.9	324.3	322.6
122.5°	265.2	273.0	277.4	274.7	273.0
125°	217.4	227.8	233.9	233.0	231.3
127.5°	184.3	192.1	200.0	199.1	197.4
130°	160.0	166.1	171.3	172.2	173.0
132.5°	143.5	146.1	151.3	152.2	153.9
135°	128.7	131.3	135.6	137.4	138.2
137.5°	117.4	120.0	123.5	125.2	126.1
140°	107.8	110.4	113.0	114.8	115.6
142.5°	100.0	102.6	105.2	106.1	106.9
145°	93.9	95.6	98.2	99.1	99.1
147.5°	87.8	89.6	91.3	93.0	93.0
150°	82.6	84.3	86.1	86.9	87.8
152.5°	79.1	80.0	81.7	82.6	82.6
155°	74.8	76.5	77.4	78.2	78.2
157.5°	72.2	73.0	73.9	74.8	74.8
160°	69.6	69.6	70.4	71.3	71.3
162.5°	66.9	66.9	67.8	68.7	68.7
165°	64.3	65.2	65.2	66.1	66.1
167.5°	62.6	62.6	63.5	63.5	64.3
170°	60.9	60.9	61.7	61.7	61.7
172.5°	59.1	60.0	60.0	60.0	60.0
175°	58.3	58.3	59.1	59.1	59.1
177.5°	57.4	58.3	58.3	58.3	58.3
180°	58.3	58.3	58.3	58.3	58.3



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	650.3	650.3	599.9	466.0	390.4
110°	595.6	602.5	576.4	524.3	464.3



(END OF REPORT)