

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: P827613

Luminaire Tested: **OHB-24SE-NL-UNV-L930-CD-UPL12**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P827613  
REPORT IS A COMBINATION OF REPORTS P826045 AND G3-2310-221-12  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHB-24SE-NL-UNV-L930-CD-UPL12  
Description:  
Light Source: -  
Ballast/Driver: -

**Summary**

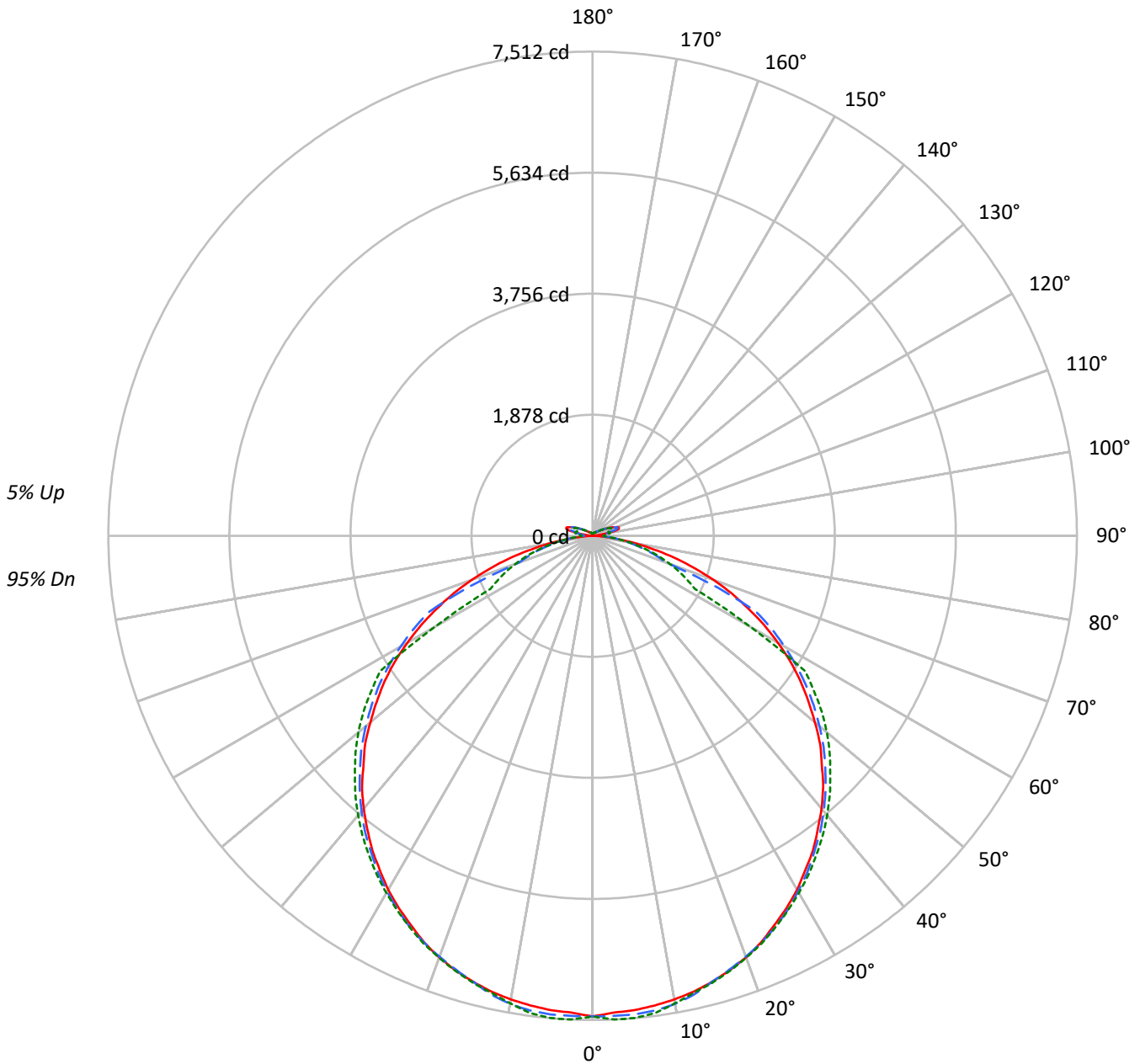
Lumens per Lamp: N/A  
Luminaire Lumens: 21943.2 lumens  
Efficiency: N/A  
Efficacy: 141.6 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 1.93' x L: 1.67' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 155  
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									
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	118	118	118	118	115	115	115	115	108	108	108	103	103	103	97	97	97	95																			
1	108	104	99	96	105	101	97	94	96	93	90	91	88	86	87	85	83	80																			
2	99	91	84	79	95	88	82	77	84	79	75	80	76	72	76	73	70	68																			
3	90	80	72	66	87	78	70	65	74	68	63	71	65	61	68	63	59	57																			
4	82	71	62	56	80	69	61	55	66	59	54	63	57	52	60	55	51	49																			
5	76	63	54	48	73	62	53	47	59	52	46	57	50	45	54	49	44	42																			
6	70	57	48	42	68	56	47	41	53	46	41	51	45	40	49	43	39	37																			
7	65	51	43	37	63	50	42	36	48	41	36	47	40	35	45	39	35	33																			
8	60	47	38	33	58	46	38	32	44	37	32	43	36	31	41	35	31	29																			
9	56	43	35	29	55	42	34	29	41	34	29	39	33	28	38	32	28	26																			
10	53	40	32	27	51	39	31	26	38	31	26	36	30	26	35	29	25	24																			

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

	0°	45°	90°
0°	24911	24911	24911
5°	24644	24825	25072
10°	24520	24672	24758
15°	24383	24258	24486
20°	24213	24014	24307
25°	23904	23820	24135
30°	23640	23512	23965
35°	23321	23153	23801
40°	22936	22807	23652
45°	22399	22337	23416
50°	21825	21809	23219
55°	21128	21147	22702
60°	20083	20194	17418
65°	18584	18979	11498
70°	16655	9682	10854
75°	13826	8647	9923
80°	9710	7093	8389
85°	3897	5454	6679



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	708.4	3.2
10°-20°	2028.5	9.2
20°-30°	3086.5	14.1
30°-40°	3752.8	17.1
40°-50°	3945.9	18.0
50°-60°	3603.0	16.4
60°-70°	2309.7	10.5
70°-80°	1091.1	5.0
80°-90°	305.1	1.4
90°-100°	176.3	0.8
100°-110°	356.5	1.6
110°-120°	293.5	1.3
120°-130°	137.7	0.6
130°-140°	68.9	0.3
140°-150°	40.1	0.2
150°-160°	23.4	0.1
160°-170°	12.1	0.1
170°-180°	3.7	0.0
0°-30°	5823.5	26.5
0°-40°	9576.2	43.6
0°-60°	17125.1	78.0
0°-90°	20831.0	94.9
90°-120°	826.3	3.8
90°-150°	1073.0	4.9
90°-180°	1112.0	5.1
0°-180°	21943.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7457	7457	7457	7457	7457	
5°	7388	7416	7454	7495	7511	703
15°	7164	7218	7163	7173	7178	2022
25°	6667	6677	6701	6711	6706	3076
35°	5959	5924	5992	6065	6048	3724
45°	5026	5017	5102	5222	5213	3885
55°	3938	3908	4041	4175	4186	3512
65°	2654	2654	2808	1611	1616	2631
75°	1311	1336	868	913	917	1382
85°	171	217	271	293	277	253
90°	2	88	140	168	168	9
95°	24	85	156	210	225	69
105°	424	427	373	271	249	402
115°	298	300	305	298	286	296
125°	142	148	151	150	150	133
135°	82	85	88	89	89	66
145°	61	62	63	64	65	38
155°	48	49	50	51	51	23
165°	42	42	43	43	43	12
175°	38	38	38	38	38	4
180°	37	37	37	37	37	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	7457.1	7457.1	7457.1	7457.1	7457.1
2.5°	7404.7	7429.6	7457.1	7492.4	7511.9
5°	7387.7	7416.5	7454.4	7495.0	7510.7
7.5°	7351.1	7391.6	7428.3	7457.1	7466.3
10°	7305.2	7353.7	7374.7	7372.0	7365.5
12.5°	7243.7	7294.9	7288.3	7258.2	7263.4
15°	7163.9	7217.6	7162.7	7173.1	7178.4
17.5°	7069.8	7122.1	7058.0	7078.9	7080.3
20°	6959.9	6999.1	6949.4	6966.4	6966.4
22.5°	6827.7	6855.2	6834.2	6846.0	6848.7
25°	6666.7	6677.2	6700.7	6711.3	6705.9
27.5°	6512.4	6499.2	6545.2	6569.9	6556.8
30°	6341.0	6320.0	6373.6	6414.2	6398.5
32.5°	6144.6	6131.6	6193.1	6241.5	6232.3
35°	5958.9	5923.5	5991.5	6064.8	6047.8
37.5°	5739.0	5718.1	5795.3	5872.5	5863.4
40°	5524.4	5489.1	5576.8	5668.4	5659.2
42.5°	5294.2	5252.2	5347.8	5457.8	5447.3
45°	5025.8	5016.7	5101.7	5222.2	5213.0
47.5°	4787.8	4742.0	4861.0	4977.5	4988.0
50°	4499.8	4482.9	4591.6	4732.9	4743.2
52.5°	4218.6	4206.8	4320.5	4463.3	4481.6
55°	3938.5	3908.5	4040.6	4175.4	4185.9
57.5°	3639.0	3607.5	3742.3	3888.9	3911.0
60°	3318.3	3288.2	3436.1	3572.2	2840.7
62.5°	2997.7	2976.8	3131.2	2217.9	1787.5
65°	2653.6	2653.6	2807.9	1610.7	1616.0
67.5°	2331.8	2310.9	2093.7	1447.1	1447.1
70°	1986.3	1994.2	1206.4	1268.0	1269.2
72.5°	1639.5	1668.3	1041.6	1091.2	1093.8
75°	1311.1	1336.0	867.5	913.3	917.2
77.5°	963.0	740.6	697.3	732.8	734.0
80°	676.5	467.1	533.9	567.9	564.0
82.5°	395.1	327.1	391.2	416.1	414.8
85°	171.4	217.2	270.8	293.1	277.3
87.5°	54.9	134.8	168.7	181.9	180.5
90°	2.4	87.9	139.8	167.6	168.4
92.5°	7.3	76.1	135.5	174.6	179.9
95°	24.1	84.9	155.9	210.2	224.8
97.5°	111.8	146.2	195.7	250.0	260.7
100°	225.8	262.2	240.2	273.9	279.4
102.5°	361.4	368.3	280.2	273.1	270.4
105°	424.5	427.4	373.4	270.7	249.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	345.8	350.8	352.3	335.5	312.4
115°	297.5	300.1	304.8	298.5	285.7
117.5°	244.1	247.4	249.8	247.4	245.7
120°	204.5	209.4	211.0	207.7	207.7
122.5°	172.2	176.2	178.6	176.2	177.0
125°	142.3	147.9	151.2	149.5	150.4
127.5°	118.8	123.7	129.3	128.5	128.5
130°	103.5	106.7	110.7	111.6	111.6
132.5°	92.2	94.6	97.8	98.6	99.4
135°	82.4	84.9	88.1	88.9	88.9
137.5°	76.0	77.6	80.0	80.8	81.6
140°	69.5	71.9	73.6	74.4	74.4
142.5°	64.7	66.3	67.9	68.7	69.5
145°	60.6	62.2	63.0	63.9	64.7
147.5°	56.6	58.2	59.8	59.8	60.6
150°	54.2	55.0	55.8	56.6	56.6
152.5°	50.9	51.7	52.5	53.4	53.4
155°	48.5	49.3	50.1	50.9	50.9
157.5°	46.1	47.7	47.7	48.5	48.5
160°	44.5	45.3	46.1	46.1	46.1
162.5°	42.8	43.6	43.6	44.5	44.5
165°	42.0	42.0	42.8	42.8	42.8
167.5°	40.4	40.4	41.2	41.2	41.2
170°	39.6	39.6	39.6	40.4	40.4
172.5°	38.8	38.8	38.8	38.8	38.8
175°	38.0	38.0	38.0	38.0	38.0
177.5°	37.2	38.0	38.0	38.0	38.0
180°	37.2	37.2	37.2	37.2	37.2



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	426.9	435.0	407.1	313.3	253.7
110°	392.7	402.2	388.3	350.0	299.5



(END OF REPORT)