

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: P828048

Luminaire Tested: **OHBL-24SE-MCL-UNV-L935-CD-UPL12**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P828048  
REPORT IS A COMBINATION OF REPORTS P826078 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: OHBL-24SE-MCL-UNV-L935-CD-UPL12  
Description:  
Light Source: -  
Ballast/Driver: -

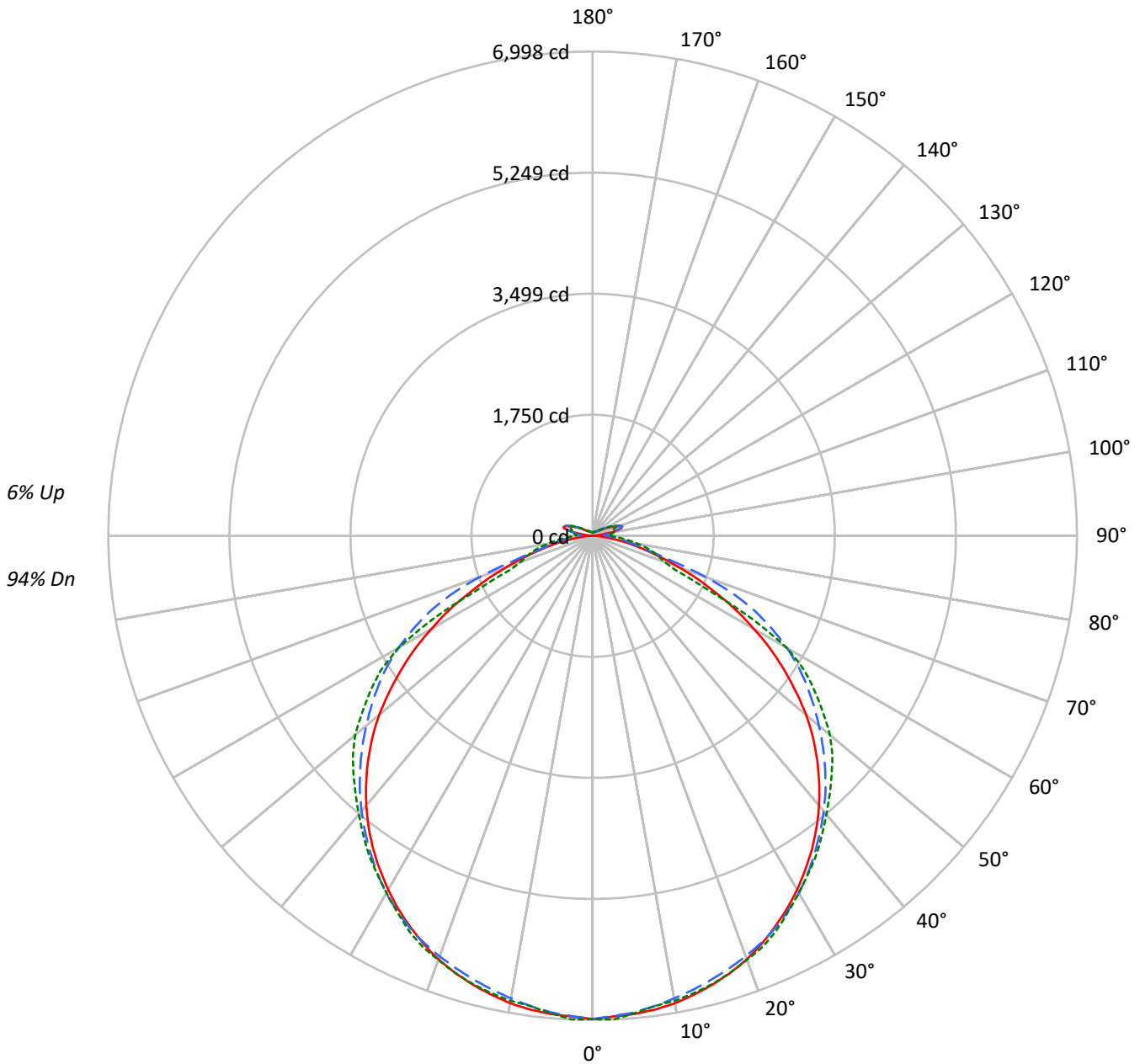
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20776.1 lumens  
Efficiency: N/A  
Efficacy: 141.9 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 146.4  
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

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

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

	0°	45°	90°
0°	11928	11928	11928
5°	11792	11749	11829
10°	11692	11566	11747
15°	11560	11428	11719
20°	11427	11338	11667
25°	11229	11249	11618
30°	11016	11110	11456
35°	10771	10893	11396
40°	10468	10669	11298
45°	10073	10410	11302
50°	9561	10116	11303
55°	8795	9825	10987
60°	7823	9402	10280
65°	6593	8627	6618
70°	5182	6721	4903
75°	3746	3978	5139
80°	2453	3292	5180
85°	1228	2989	5447



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	658.5	3.2
10°-20°	1888.2	9.1
20°-30°	2883.9	13.9
30°-40°	3499.1	16.8
40°-50°	3667.4	17.7
50°-60°	3323.2	16.0
60°-70°	2228.1	10.7
70°-80°	1000.5	4.8
80°-90°	365.7	1.8
90°-100°	208.4	1.0
100°-110°	396.5	1.9
110°-120°	322.1	1.6
120°-130°	156.3	0.8
130°-140°	80.8	0.4
140°-150°	47.9	0.2
150°-160°	29.0	0.1
160°-170°	15.7	0.1
170°-180°	4.8	0.0
0°-30°	5430.5	26.1
0°-40°	8929.7	43.0
0°-60°	15920.3	76.6
0°-90°	19514.6	93.9
90°-120°	927.1	4.5
90°-150°	1212.1	5.8
90°-180°	1262.0	6.1
0°-180°	20776.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6983	6983	6983	6983	6983	
5°	6938	6962	6914	6935	6926	660
15°	6713	6687	6639	6698	6706	1895
25°	6236	6209	6252	6310	6292	2875
35°	5527	5540	5597	5657	5634	3455
45°	4587	4662	4749	4870	4885	3534
55°	3376	3538	3780	3931	3922	3013
65°	1981	2291	2601	2195	1792	1974
75°	780	1131	832	851	907	852
85°	134	258	330	399	418	164
90°	4	101	191	240	253	10
95°	22	102	189	239	258	70
105°	435	449	421	327	309	412
115°	308	312	330	336	333	307
125°	154	161	174	175	177	144
135°	94	98	102	108	109	75
145°	72	74	75	77	79	46
155°	60	62	63	64	63	28
165°	54	54	55	55	55	15
175°	50	50	49	48	48	5
180°	48	48	48	48	48	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6983.4	6983.4	6983.4	6983.4	6983.4
2.5°	6955.2	6984.4	6948.1	6987.5	6997.6
5°	6938.0	6962.3	6913.8	6935.0	6925.9
7.5°	6906.7	6914.8	6857.3	6874.4	6856.2
10°	6860.2	6856.2	6788.6	6821.9	6825.9
12.5°	6791.6	6779.5	6718.9	6769.3	6770.4
15°	6712.8	6686.6	6639.1	6697.7	6705.8
17.5°	6621.9	6587.6	6556.3	6632.1	6619.9
20°	6515.9	6475.5	6469.5	6552.2	6522.0
22.5°	6384.7	6353.3	6367.5	6446.2	6427.1
25°	6236.2	6209.0	6252.4	6309.9	6291.8
27.5°	6079.8	6063.6	6113.0	6157.5	6122.1
30°	5908.1	5899.0	5964.6	6000.9	5956.5
32.5°	5721.2	5724.3	5786.9	5836.3	5795.0
35°	5527.4	5540.5	5597.1	5656.7	5634.4
37.5°	5314.3	5343.6	5400.2	5467.8	5444.6
40°	5089.2	5131.6	5194.2	5275.9	5254.8
42.5°	4845.8	4899.3	4980.1	5071.0	5068.9
45°	4587.3	4662.0	4748.8	4870.0	4885.2
47.5°	4318.7	4402.5	4512.6	4674.2	4697.3
50°	4026.9	4131.9	4269.3	4463.1	4477.2
52.5°	3701.8	3845.2	4026.9	4212.7	4195.5
55°	3375.6	3538.2	3779.5	3931.0	3921.8
57.5°	3050.4	3233.2	3526.1	3634.1	3633.1
60°	2686.9	2918.2	3238.2	3320.1	3239.2
62.5°	2350.7	2599.1	2931.3	2871.8	2595.1
65°	1981.2	2291.2	2601.1	2195.2	1792.3
67.5°	1653.0	1976.1	2209.3	1503.5	1287.4
70°	1322.8	1679.2	1722.7	1115.8	1100.7
72.5°	1029.9	1409.6	1188.5	955.2	1003.7
75°	779.5	1130.9	832.0	851.2	906.8
77.5°	568.5	868.4	647.3	746.2	791.7
80°	390.8	614.9	528.1	627.1	658.3
82.5°	245.3	405.9	423.1	504.9	537.2
85°	134.3	257.5	330.2	398.8	418.0
87.5°	55.5	155.5	252.4	308.0	324.2
90°	3.5	100.8	190.7	239.9	253.3
92.5°	8.5	84.8	171.0	217.7	228.9
95°	21.8	101.8	188.8	239.0	258.1
97.5°	114.5	164.9	236.2	281.5	293.8
100°	233.0	282.8	287.6	313.9	321.2
102.5°	369.8	389.1	332.0	321.2	320.0
105°	434.8	449.1	420.9	327.2	309.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	355.4	365.0	382.7	378.4	366.2
115°	308.1	312.1	330.1	335.7	332.8
117.5°	259.8	265.1	282.8	286.3	286.7
120°	218.9	224.9	239.8	241.4	242.4
122.5°	185.6	189.8	203.3	205.9	207.8
125°	153.8	160.6	174.0	175.3	177.2
127.5°	130.6	135.6	149.5	151.7	152.7
130°	114.8	119.1	128.3	133.2	133.2
132.5°	104.1	107.6	114.0	118.8	119.7
135°	94.1	97.6	101.9	107.8	108.8
137.5°	88.4	90.1	92.6	98.5	100.3
140°	81.8	84.2	84.9	89.8	90.8
142.5°	75.8	78.4	79.1	82.9	84.8
145°	71.6	74.2	75.1	76.9	78.8
147.5°	68.4	70.1	71.8	71.8	73.6
150°	65.9	66.8	67.6	68.4	68.4
152.5°	62.6	63.4	64.2	65.1	65.1
155°	60.1	61.9	62.8	63.6	62.6
157.5°	57.6	60.2	60.2	61.1	61.1
160°	55.9	57.8	58.6	58.6	58.6
162.5°	55.2	56.1	56.1	56.9	56.9
165°	54.4	54.4	55.2	55.2	55.2
167.5°	52.8	53.8	53.6	53.6	53.6
170°	51.9	51.9	51.9	51.8	51.8
172.5°	51.1	51.1	51.1	50.1	50.1
175°	50.2	50.2	49.2	48.2	48.2
177.5°	50.4	50.2	49.2	48.2	47.3
180°	48.4	48.4	48.4	48.4	48.4



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	438.4	454.2	450.3	370.4	319.1
110°	402.8	418.7	425.6	400.5	360.0



(END OF REPORT)