

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: P828051

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

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P828051  
REPORT IS A COMBINATION OF REPORTS P826079 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-MFL-UNV-L935-CD-UPL12  
Description:  
Light Source: -  
Ballast/Driver: -

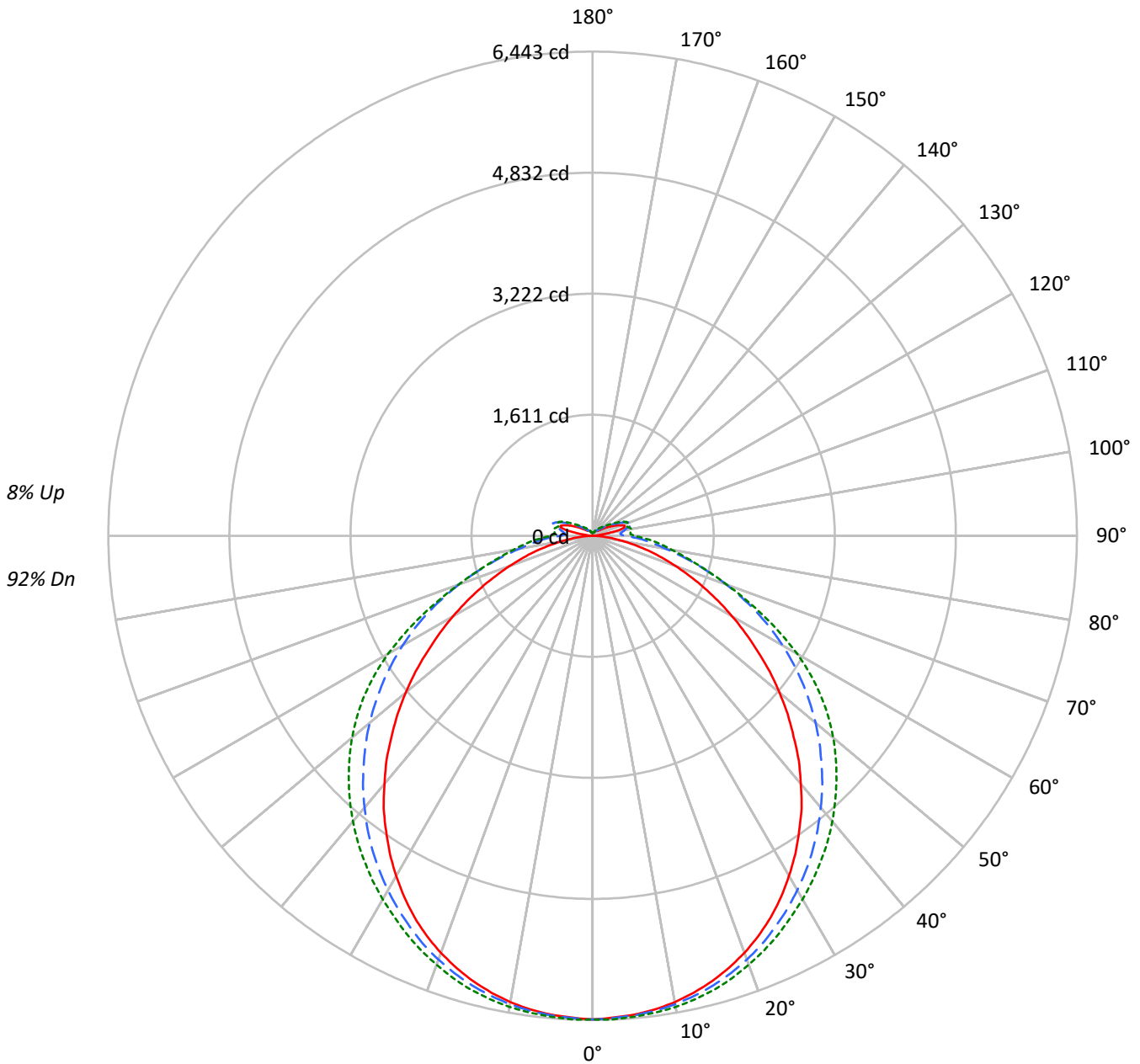
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20301.1 lumens  
Efficiency: N/A  
Efficacy: 138.7 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38  
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 (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	117	117	117	117	113	113	113	113	107	107	107	100	100	100	95	95	95	92																			
1	106	101	97	93	103	98	94	91	92	89	86	87	85	82	82	80	78	76																			
2	97	88	81	75	93	86	79	74	81	75	71	76	72	68	72	68	65	63																			
3	88	77	69	63	85	75	68	61	71	65	59	67	62	57	64	59	55	53																			
4	80	68	60	53	78	67	58	52	63	56	50	60	54	49	57	52	47	45																			
5	74	61	52	45	71	59	51	45	56	49	44	54	47	42	51	46	41	39																			
6	68	55	46	40	66	54	45	39	51	44	38	48	42	37	46	41	36	34																			
7	63	50	41	35	61	49	40	34	46	39	34	44	38	33	42	36	32	30																			
8	59	45	37	31	57	44	36	31	42	35	30	40	34	29	39	33	29	27																			
9	55	42	33	28	53	41	33	28	39	32	27	37	31	26	36	30	26	24																			
10	51	38	30	25	50	38	30	25	36	29	25	35	28	24	33	28	24	22																			

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

	0°	45°	90°
0°	10993	10993	10993
5°	10870	10884	10969
10°	10741	10784	10958
15°	10569	10664	10929
20°	10357	10519	10866
25°	10092	10338	10804
30°	9745	10143	10743
35°	9338	9936	10702
40°	8859	9697	10669
45°	8305	9437	10616
50°	7704	9174	10546
55°	6982	8853	10384
60°	6242	8475	9974
65°	5441	7994	9236
70°	4579	7381	8448
75°	3702	6673	8034
80°	2640	6147	8416
85°	1469	6332	10551



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	609.9	3.0
10°-20°	1749.7	8.6
20°-30°	2646.1	13.0
30°-40°	3176.7	15.6
40°-50°	3281.0	16.2
50°-60°	2951.9	14.5
60°-70°	2223.6	11.0
70°-80°	1342.7	6.6
80°-90°	659.3	3.2
90°-100°	375.6	1.8
100°-110°	502.7	2.5
110°-120°	388.9	1.9
120°-130°	194.4	1.0
130°-140°	98.6	0.5
140°-150°	54.7	0.3
150°-160°	29.1	0.1
160°-170°	12.5	0.1
170°-180°	3.8	0.0
0°-30°	5005.7	24.7
0°-40°	8182.4	40.3
0°-60°	14415.2	71.0
0°-90°	18640.8	91.8
90°-120°	1267.2	6.2
90°-150°	1614.9	8.0
90°-180°	1660.0	8.2
0°-180°	20301.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6436	6436	6436	6436	6436	
5°	6396	6413	6405	6430	6422	608
15°	6137	6167	6196	6248	6254	1730
25°	5605	5666	5746	5836	5850	2578
35°	4792	4904	5105	5260	5291	2996
45°	3782	3973	4305	4540	4589	2920
55°	2680	2957	3406	3662	3707	2402
65°	1635	1969	2410	2530	2502	1624
75°	770	1106	1396	1432	1418	822
85°	161	424	699	796	810	186
90°	2	180	420	530	554	12
95°	29	160	371	478	507	75
105°	442	490	537	484	473	419
115°	313	336	408	442	443	313
125°	159	170	220	247	253	148
135°	96	102	124	148	155	76
145°	78	78	81	94	100	49
155°	66	68	67	67	68	28
165°	43	43	44	44	44	12
175°	39	39	39	39	39	4
180°	38	38	38	38	38	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6436.5	6436.5	6436.5	6436.5	6436.5
2.5°	6417.6	6433.3	6423.9	6444.3	6442.8
5°	6395.5	6412.8	6405.0	6430.2	6422.3
7.5°	6357.8	6376.7	6375.1	6403.4	6400.2
10°	6302.6	6323.1	6329.4	6367.2	6367.2
12.5°	6227.0	6253.8	6269.5	6315.2	6316.8
15°	6137.2	6167.1	6195.5	6247.5	6253.8
17.5°	6028.5	6066.3	6105.7	6165.6	6173.4
20°	5905.7	5948.2	6001.8	6064.8	6074.2
22.5°	5763.8	5814.3	5883.6	5957.6	5968.7
25°	5604.8	5666.2	5746.5	5836.3	5850.5
27.5°	5423.6	5494.5	5603.2	5704.0	5716.6
30°	5226.7	5310.2	5445.7	5565.4	5585.8
32.5°	5018.8	5114.8	5281.8	5415.8	5444.1
35°	4791.9	4903.8	5105.4	5259.8	5291.2
37.5°	4568.2	4691.1	4919.5	5095.9	5133.8
40°	4306.8	4459.6	4721.0	4916.3	4962.1
42.5°	4061.0	4226.4	4522.6	4735.2	4779.3
45°	3782.2	3972.8	4305.2	4539.9	4588.8
47.5°	3520.7	3727.1	4095.7	4338.2	4388.7
50°	3245.0	3471.8	3872.0	4125.6	4177.6
52.5°	2969.3	3213.5	3640.4	3903.5	3952.3
55°	2679.5	2956.8	3405.7	3662.5	3706.6
57.5°	2410.2	2703.2	3164.7	3408.8	3435.7
60°	2143.9	2447.9	2918.9	3133.2	3142.7
62.5°	1884.0	2203.8	2666.9	2837.0	2824.4
65°	1635.1	1969.1	2410.2	2529.8	2501.5
67.5°	1395.7	1740.7	2147.1	2224.2	2186.4
70°	1168.8	1518.6	1891.9	1931.2	1896.6
72.5°	968.8	1307.5	1633.5	1666.6	1641.4
75°	770.3	1105.8	1395.7	1431.9	1417.8
77.5°	584.4	910.5	1176.8	1224.0	1227.1
80°	420.6	732.5	986.1	1060.2	1069.6
82.5°	277.2	568.7	827.0	921.5	935.7
85°	160.7	423.8	699.4	795.5	809.7
87.5°	69.3	305.6	562.3	649.0	666.3
90°	2.5	180.4	420.1	529.9	553.8
92.5°	12.2	156.2	375.1	482.9	504.4
95°	28.8	160.2	371.0	477.9	507.1
97.5°	121.9	217.0	398.2	495.8	518.2
100°	239.4	329.4	431.1	506.4	523.2
102.5°	375.2	433.3	460.2	493.5	500.4
105°	441.8	490.4	536.6	484.3	472.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	360.9	393.3	468.1	495.7	487.8
115°	312.6	336.2	407.9	441.7	443.0
117.5°	265.8	286.5	352.0	384.2	387.2
120°	225.0	242.6	301.0	329.2	335.5
122.5°	191.7	203.8	258.2	285.7	291.2
125°	159.2	169.8	220.4	247.1	252.7
127.5°	133.5	141.7	188.5	216.0	220.8
130°	117.7	122.6	161.4	189.0	193.8
132.5°	106.0	111.7	140.3	166.2	173.4
135°	96.0	101.7	123.9	148.4	154.7
137.5°	89.3	94.2	109.2	132.2	139.3
140°	84.2	88.3	97.9	117.6	123.9
142.5°	80.8	82.5	87.3	105.5	111.1
145°	78.3	78.3	80.8	94.2	99.8
147.5°	74.1	75.8	77.4	83.8	89.2
150°	71.6	74.0	73.3	75.7	80.4
152.5°	68.3	70.7	69.9	69.2	72.3
155°	65.8	68.2	67.4	66.7	68.3
157.5°	47.5	49.2	49.2	50.0	50.0
160°	45.8	46.7	47.5	47.5	47.5
162.5°	44.2	45.0	45.0	45.8	45.8
165°	43.3	43.3	44.2	44.2	44.2
167.5°	41.7	41.7	42.5	42.5	42.5
170°	40.8	40.8	40.8	41.7	41.7
172.5°	40.0	40.0	40.0	40.0	40.0
175°	39.2	39.2	39.2	39.2	39.2
177.5°	38.3	39.2	39.2	39.2	39.2
180°	38.3	38.3	38.3	38.3	38.3



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	444.3	491.8	553.7	512.5	467.0
110°	407.7	452.9	519.7	529.6	494.9



(END OF REPORT)