

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: P827750

Luminaire Tested: **OHBL-24SE-MCL-UNV-L930-CD-UPL36**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P827750  
REPORT IS A COMBINATION OF REPORTS P826306 AND G3-2310-221-2  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-24SE-MCL-UNV-L930-CD-UPL36  
Description:  
Light Source: -  
Ballast/Driver: -

**Summary**

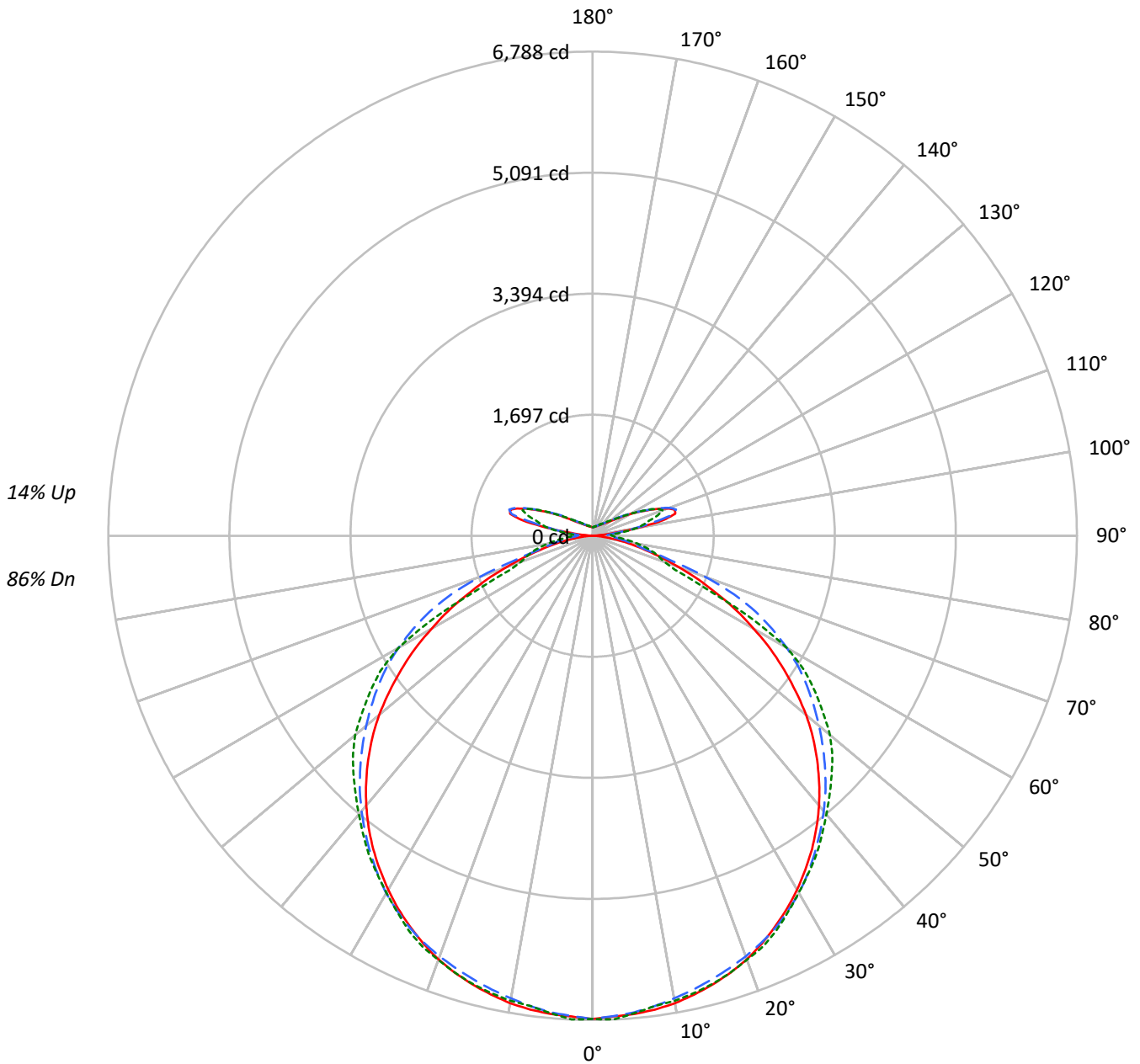
Lumens per Lamp: N/A  
Luminaire Lumens: 22041.7 lumens  
Efficiency: N/A  
Efficacy: 132.1 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')  
CIE Type: Semi-Direct

Input Watts (W): 166.8  
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	116	116	116	116	111	111	111	111	103	103	103	96	96	96	89	89	89	86																			
1	106	101	97	94	102	98	94	91	91	88	85	85	82	80	79	77	75	72																			
2	97	89	82	77	93	86	80	75	80	75	71	74	71	67	70	66	64	61																			
3	88	78	70	64	84	75	68	62	70	64	60	66	61	57	62	58	54	51																			
4	81	69	61	54	77	67	59	53	63	56	51	59	53	49	55	50	47	44																			
5	74	62	53	46	71	60	52	46	56	49	44	53	47	42	49	44	40	38																			
6	68	55	47	40	66	54	46	40	51	44	38	48	41	37	45	40	36	33																			
7	63	50	42	36	61	49	41	35	46	39	34	43	37	33	41	36	31	29																			
8	59	46	37	32	56	44	37	31	42	35	30	40	34	29	37	32	28	26																			
9	55	42	34	28	53	41	33	28	38	32	27	36	30	26	34	29	25	23																			
10	51	38	31	26	49	37	30	25	36	29	25	34	28	24	32	27	23	21																			

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

	0°	45°	90°
0°	11570	11570	11570
5°	11438	11396	11474
10°	11341	11219	11395
15°	11213	11085	11367
20°	11084	10998	11317
25°	10892	10911	11270
30°	10685	10776	11112
35°	10448	10566	11054
40°	10154	10349	10959
45°	9771	10098	10963
50°	9274	9812	10964
55°	8532	9530	10657
60°	7588	9120	9972
65°	6395	8368	6420
70°	5026	6519	4755
75°	3633	3858	4984
80°	2379	3193	5025
85°	1191	2900	5284



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	638.7	2.9
10°-20°	1831.5	8.3
20°-30°	2797.3	12.7
30°-40°	3394.1	15.4
40°-50°	3557.4	16.1
50°-60°	3223.5	14.6
60°-70°	2161.3	9.8
70°-80°	970.5	4.4
80°-90°	358.4	1.6
90°-100°	328.4	1.5
100°-110°	1057.3	4.8
110°-120°	858.7	3.9
120°-130°	408.4	1.9
130°-140°	209.3	0.9
140°-150°	123.2	0.6
150°-160°	73.2	0.3
160°-170°	38.7	0.2
170°-180°	11.8	0.1
0°-30°	5267.6	23.9
0°-40°	8661.8	39.3
0°-60°	15442.7	70.1
0°-90°	18932.8	85.9
90°-120°	2244.4	10.2
90°-150°	2985.2	13.5
90°-180°	3109.0	14.1
0°-180°	22041.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6774	6774	6774	6774	6774	
5°	6730	6753	6706	6727	6718	640
15°	6511	6486	6440	6497	6505	1838
25°	6049	6023	6065	6121	6103	2788
35°	5362	5374	5429	5487	5465	3351
45°	4450	4522	4606	4724	4739	3428
55°	3274	3432	3666	3813	3804	2923
65°	1922	2222	2523	2129	1739	1915
75°	756	1097	807	826	880	826
85°	130	250	320	387	406	159
90°	7	123	216	266	276	12
95°	51	152	247	308	325	188
105°	1198	1214	1176	901	823	1139
115°	840	833	856	870	864	849
125°	417	432	452	447	440	393
135°	251	258	265	273	274	199
145°	185	190	194	198	199	118
155°	152	155	158	160	158	71
165°	133	134	135	136	137	38
175°	122	122	122	121	122	12
180°	120	120	120	120	120	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6773.9	6773.9	6773.9	6773.9	6773.9
2.5°	6746.5	6774.9	6739.6	6777.9	6787.7
5°	6729.9	6753.4	6706.3	6727.0	6718.1
7.5°	6699.5	6707.3	6651.5	6668.2	6650.6
10°	6654.4	6650.6	6584.9	6617.3	6621.1
12.5°	6587.8	6576.1	6517.3	6566.3	6567.3
15°	6511.4	6486.0	6439.9	6496.7	6504.6
17.5°	6423.3	6390.0	6359.6	6433.1	6421.3
20°	6320.4	6281.2	6275.4	6355.7	6326.3
22.5°	6193.1	6162.7	6176.5	6252.9	6234.3
25°	6049.2	6022.7	6064.8	6120.6	6103.0
27.5°	5897.4	5881.7	5929.6	5972.8	5938.4
30°	5730.8	5722.0	5785.6	5820.9	5777.8
32.5°	5549.6	5552.5	5613.3	5661.2	5621.2
35°	5361.6	5374.3	5429.2	5487.0	5465.4
37.5°	5154.9	5183.3	5238.2	5303.8	5281.2
40°	4936.5	4977.6	5038.3	5117.6	5097.1
42.5°	4700.5	4752.4	4830.7	4918.9	4916.8
45°	4449.7	4522.1	4606.4	4723.9	4738.6
47.5°	4189.1	4270.4	4377.2	4533.9	4556.4
50°	3906.1	4008.0	4141.2	4329.2	4342.9
52.5°	3590.7	3729.8	3906.1	4086.3	4069.6
55°	3274.3	3432.0	3666.1	3813.1	3804.2
57.5°	2958.9	3136.3	3420.3	3525.1	3524.1
60°	2606.3	2830.6	3141.1	3220.5	3142.1
62.5°	2280.1	2521.1	2843.4	2785.6	2517.2
65°	1921.7	2222.4	2523.1	2129.3	1738.6
67.5°	1603.4	1916.8	2143.1	1458.4	1248.8
70°	1283.1	1628.9	1671.0	1082.3	1067.6
72.5°	999.0	1367.3	1152.8	926.6	973.6
75°	756.1	1097.0	807.0	825.7	879.5
77.5°	551.4	842.4	627.8	723.8	767.9
80°	379.0	596.5	512.2	608.3	638.6
82.5°	238.0	393.7	410.4	489.8	521.1
85°	130.3	249.8	320.3	386.9	405.5
87.5°	53.8	150.8	244.8	298.8	314.4
90°	7.4	122.9	216.5	265.9	276.4
92.5°	21.2	112.2	197.4	245.1	256.8
95°	51.1	152.1	247.0	307.8	324.7
97.5°	304.3	366.1	377.1	451.7	475.0
100°	652.0	700.3	595.8	616.5	635.7
102.5°	1020.8	1058.0	881.4	754.5	733.2
105°	1197.8	1214.0	1176.2	901.0	823.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	985.0	994.2	1004.9	1010.5	986.6
115°	840.4	833.0	856.1	869.6	863.5
117.5°	720.0	713.8	735.0	737.7	730.7
120°	606.8	607.8	628.6	622.2	616.7
122.5°	504.2	515.5	531.9	528.7	519.2
125°	416.7	432.2	451.7	447.3	440.3
127.5°	359.5	364.3	383.5	382.3	383.3
130°	310.2	317.6	331.4	336.9	335.3
132.5°	277.2	284.6	295.7	302.0	304.4
135°	251.3	257.9	265.4	272.7	274.5
137.5°	231.3	236.1	241.0	249.9	251.7
140°	213.5	218.3	222.2	229.4	230.4
142.5°	198.0	203.8	206.9	212.2	213.2
145°	185.0	190.0	194.1	197.5	199.3
147.5°	176.3	179.5	183.6	184.4	186.2
150°	167.4	169.8	173.1	174.7	175.5
152.5°	159.3	161.7	165.0	165.8	166.6
155°	152.0	155.4	157.9	159.5	158.5
157.5°	145.6	149.0	151.4	152.2	152.2
160°	140.7	143.3	145.7	145.7	146.6
162.5°	136.9	138.5	140.1	140.9	141.7
165°	132.8	134.4	135.2	136.0	136.9
167.5°	129.6	131.4	131.2	132.0	132.0
170°	126.3	127.2	128.0	127.0	127.8
172.5°	123.9	124.7	125.5	124.6	124.6
175°	122.3	122.3	122.1	121.2	122.0
177.5°	121.7	121.5	120.5	119.6	119.4
180°	119.7	119.7	119.7	119.7	119.7



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	1210.2	1226.2	1226.6	1095.7	957.0
110°	1118.2	1138.5	1144.4	1107.1	1045.2



(END OF REPORT)