

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: P826457

Luminaire Tested: **OHBL-12SE-MCL-UNV-L830-CD-UPL12**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P826457
REPORT IS A COMBINATION OF REPORTS P826054 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-12SE-MCL-UNV-L830-CD-UPL12
Description:
Light Source: -
Ballast/Driver: -

Summary

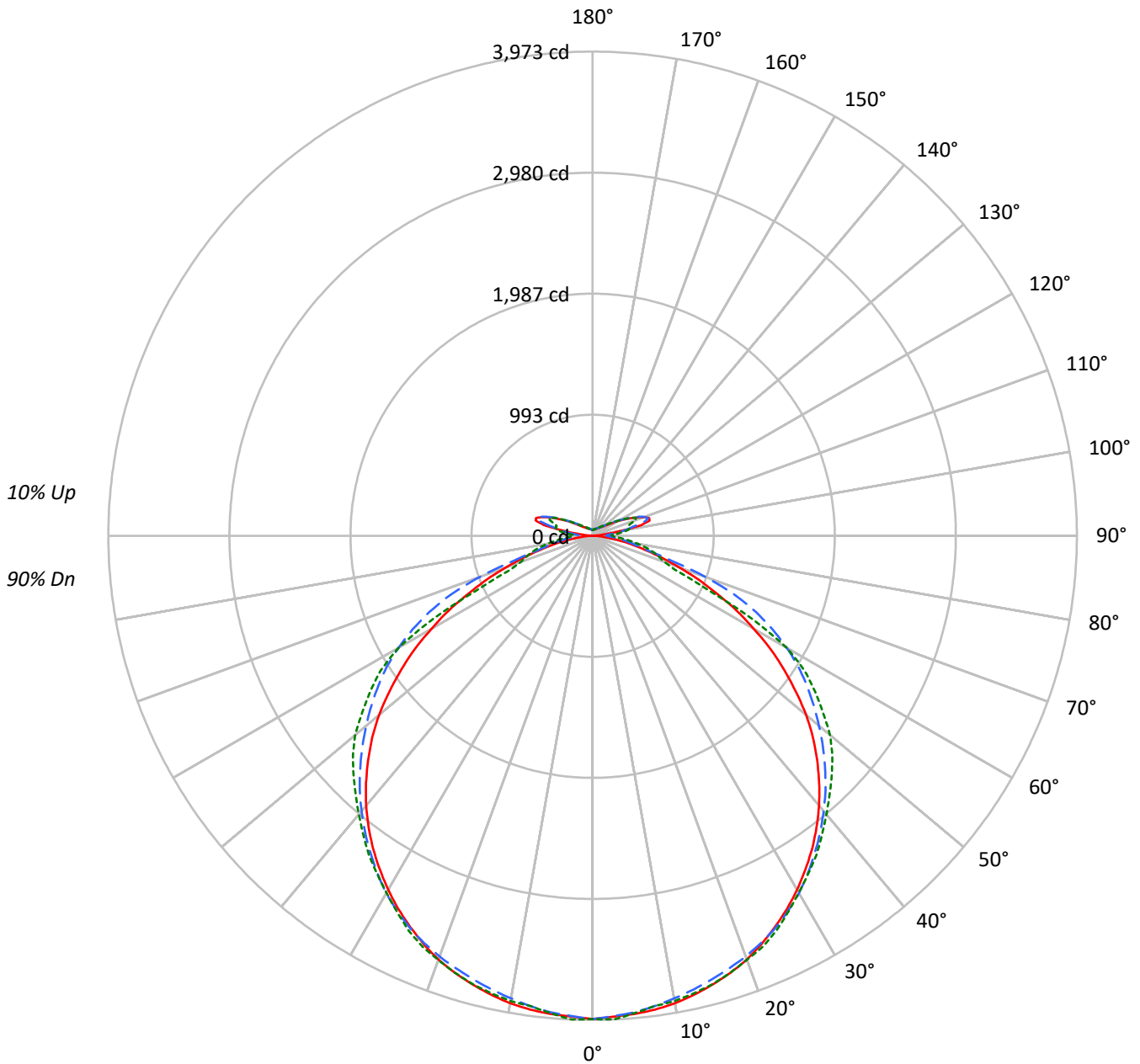
Lumens per Lamp: N/A
Luminaire Lumens: 12366.5 lumens
Efficiency: N/A
Efficacy: 157.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 0.88' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 78.4
Input Voltage (V): NR
Input Current (A_{in}): 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	117	117	117	117	113	113	113	113	105	105	105	99	99	99	93	93	93	90								
1	107	102	98	94	103	99	95	92	93	90	87	87	85	83	82	80	78	76								
2	97	89	83	77	94	87	81	76	81	76	72	77	73	69	72	69	66	63								
3	89	79	71	64	85	76	69	63	72	66	61	68	63	58	64	60	56	54								
4	81	70	61	55	78	68	60	54	64	57	52	60	55	50	57	52	48	46								
5	75	62	53	47	72	60	52	46	57	50	45	54	48	43	51	46	42	40								
6	69	56	47	41	66	54	46	40	52	44	39	49	43	38	46	41	37	35								
7	64	51	42	36	61	49	41	36	47	40	35	45	38	34	42	37	33	31								
8	59	46	38	32	57	45	37	32	43	36	31	41	35	30	39	33	29	27								
9	55	42	34	29	53	41	34	28	39	32	28	38	31	27	36	30	26	24								
10	52	39	31	26	50	38	31	26	36	30	25	35	29	25	33	28	24	22								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12900	12900	12900
5°	12654	12637	12794
10°	12450	12372	12705
15°	12214	12157	12675
20°	11979	11994	12618
25°	11674	11829	12566
30°	11353	11611	12390
35°	10998	11308	12325
40°	10581	10995	12219
45°	10066	10641	12224
50°	9431	10244	12224
55°	8546	9841	11883
60°	7464	9294	11119
65°	6148	8386	7158
70°	4690	6391	5303
75°	3252	3667	5558
80°	1997	2894	5602
85°	895	2417	5892



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	373.9	3.0
10°-20°	1072.1	8.7
20°-30°	1637.5	13.2
30°-40°	1986.8	16.1
40°-50°	2082.4	16.8
50°-60°	1886.9	15.3
60°-70°	1265.1	10.2
70°-80°	568.1	4.6
80°-90°	209.1	1.7
90°-100°	172.8	1.4
100°-110°	414.5	3.4
110°-120°	345.5	2.8
120°-130°	166.6	1.3
130°-140°	84.9	0.7
140°-150°	49.9	0.4
150°-160°	29.7	0.2
160°-170°	15.8	0.1
170°-180°	4.8	0.0
0°-30°	3083.5	24.9
0°-40°	5070.4	41.0
0°-60°	9039.7	73.1
0°-90°	11082.0	89.6
90°-120°	932.8	7.5
90°-150°	1234.2	10.0
90°-180°	1284.0	10.4
0°-180°	12366.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3965	3965	3965	3965	3965	
5°	3940	3953	3926	3938	3933	375
15°	3812	3797	3770	3803	3808	1076
25°	3541	3526	3550	3583	3572	1632
35°	3138	3146	3178	3212	3199	1962
45°	2605	2647	2696	2765	2774	2007
55°	1917	2009	2146	2232	2227	1711
65°	1125	1301	1477	1246	1018	1121
75°	443	642	472	483	515	484
85°	76	146	188	226	237	93
90°	3	66	119	150	160	6
95°	24	84	147	189	208	77
105°	483	489	438	327	306	458
115°	340	342	353	354	350	339
125°	168	175	184	184	186	157
135°	100	104	108	112	112	80
145°	75	77	78	80	81	48
155°	62	63	64	65	64	29
165°	55	55	56	56	56	15
175°	50	50	50	49	49	5
180°	49	49	49	49	49	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3965.3	3965.3	3965.3	3965.3	<i>3965.3</i>
2.5°	<i>3949.2</i>	<i>3965.8</i>	<i>3945.2</i>	<i>3967.5</i>	<i>3973.3</i>
5°	3939.5	3953.2	3925.7	3937.7	<i>3932.6</i>
7.5°	3921.7	3926.3	3893.6	3903.3	<i>3893.0</i>
10°	3895.3	3893.0	3854.6	3873.5	<i>3875.9</i>
12.5°	3856.3	3849.4	3815.1	3843.8	<i>3844.3</i>
15°	3811.6	3796.7	3769.8	3803.0	<i>3807.6</i>
17.5°	3760.0	3740.6	3722.8	3765.8	<i>3758.9</i>
20°	3699.8	3676.9	3673.5	3720.5	<i>3703.2</i>
22.5°	3625.3	3607.5	3615.5	3660.2	<i>3649.4</i>
25°	3541.0	3525.5	3550.2	3582.8	<i>3572.5</i>
27.5°	3452.1	3443.0	3471.1	3496.3	<i>3476.2</i>
30°	3354.7	3349.5	3386.8	3407.4	<i>3382.2</i>
32.5°	3248.6	3250.3	3285.9	3314.0	<i>3290.4</i>
35°	3138.5	3145.9	3178.0	3211.9	<i>3199.2</i>
37.5°	3017.5	3034.2	3066.3	3104.7	<i>3091.5</i>
40°	2889.7	2913.8	2949.3	2995.7	<i>2983.7</i>
42.5°	2751.5	2781.9	2827.8	2879.3	<i>2878.2</i>
45°	2604.7	2647.2	2696.5	2765.2	<i>2773.9</i>
47.5°	2452.2	2499.8	2562.3	2654.0	<i>2667.3</i>
50°	2286.5	2346.1	2424.1	2534.2	<i>2542.2</i>
52.5°	2101.8	2183.3	2286.5	2392.0	<i>2382.2</i>
55°	1916.7	2009.0	2146.0	2232.0	<i>2226.9</i>
57.5°	1732.0	1835.9	2002.1	2063.5	<i>2062.9</i>
60°	1525.6	1656.9	1838.7	1885.1	<i>1839.3</i>
62.5°	1334.8	1475.8	1664.4	1630.6	<i>1473.5</i>
65°	1124.9	1300.9	1477.0	1246.5	<i>1017.7</i>
67.5°	938.6	1122.1	1254.5	853.7	<i>731.0</i>
70°	751.1	953.4	978.1	633.5	<i>625.0</i>
72.5°	584.9	800.4	674.8	542.4	<i>569.9</i>
75°	442.7	642.2	472.4	483.3	<i>514.9</i>
77.5°	322.8	493.1	367.5	423.7	<i>449.5</i>
80°	221.8	349.1	299.8	356.0	<i>373.8</i>
82.5°	139.3	230.5	240.3	286.7	<i>305.0</i>
85°	76.2	146.2	187.5	226.5	<i>237.4</i>
87.5°	31.5	88.3	143.3	174.9	<i>184.1</i>
90°	3.4	65.5	119.2	150.4	<i>159.9</i>
92.5°	8.9	58.6	114.5	148.3	<i>157.0</i>
95°	23.8	84.4	146.6	188.8	<i>207.8</i>
97.5°	126.7	160.9	210.1	249.5	<i>261.1</i>
100°	258.5	296.5	276.3	296.3	<i>302.6</i>
102.5°	410.8	419.0	333.0	313.1	<i>310.2</i>
105°	483.4	488.7	438.4	327.1	<i>305.6</i>



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	393.0	399.8	408.4	398.7	384.0
115°	339.6	341.9	352.6	354.4	349.9
117.5°	285.6	290.5	301.9	302.5	301.8
120°	240.0	246.1	255.5	254.6	255.3
122.5°	202.8	207.4	216.5	216.6	218.1
125°	167.8	174.9	184.3	184.2	185.7
127.5°	141.4	146.9	158.1	158.8	159.4
130°	123.7	128.0	135.5	138.7	138.7
132.5°	111.2	114.6	120.0	123.3	124.2
135°	100.0	103.5	107.8	111.6	112.1
137.5°	93.2	95.1	97.9	101.6	103.2
140°	85.8	88.6	89.8	93.1	93.6
142.5°	79.6	82.1	83.3	86.0	87.5
145°	74.9	77.4	78.4	79.8	81.3
147.5°	70.9	72.8	74.6	74.6	76.1
150°	68.1	69.0	70.0	70.9	70.9
152.5°	64.4	65.3	66.3	67.2	67.2
155°	61.6	63.1	64.0	65.0	64.4
157.5°	58.8	61.2	61.2	62.2	62.2
160°	57.0	58.4	59.4	59.4	59.4
162.5°	55.6	56.6	56.6	57.5	57.5
165°	54.7	54.7	55.6	55.6	55.6
167.5°	52.9	53.4	53.8	53.8	53.8
170°	51.9	51.9	51.9	52.3	52.3
172.5°	51.0	51.0	51.0	50.4	50.4
175°	50.1	50.1	49.5	48.9	48.9
177.5°	49.7	50.1	49.5	48.9	48.3
180°	48.6	48.6	48.6	48.6	48.6



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	486.8	496.6	475.7	381.0	322.5
110°	446.4	458.7	452.5	419.5	373.2



(END OF REPORT)