

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: P826458

Luminaire Tested: **OHBL-12SE-MCL-UNV-L830-CD-UPL18**

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P826458
REPORT IS A COMBINATION OF REPORTS P826150 AND G3-2310-221-8
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-UPL18
Description:
Light Source: -
Ballast/Driver: -

Summary

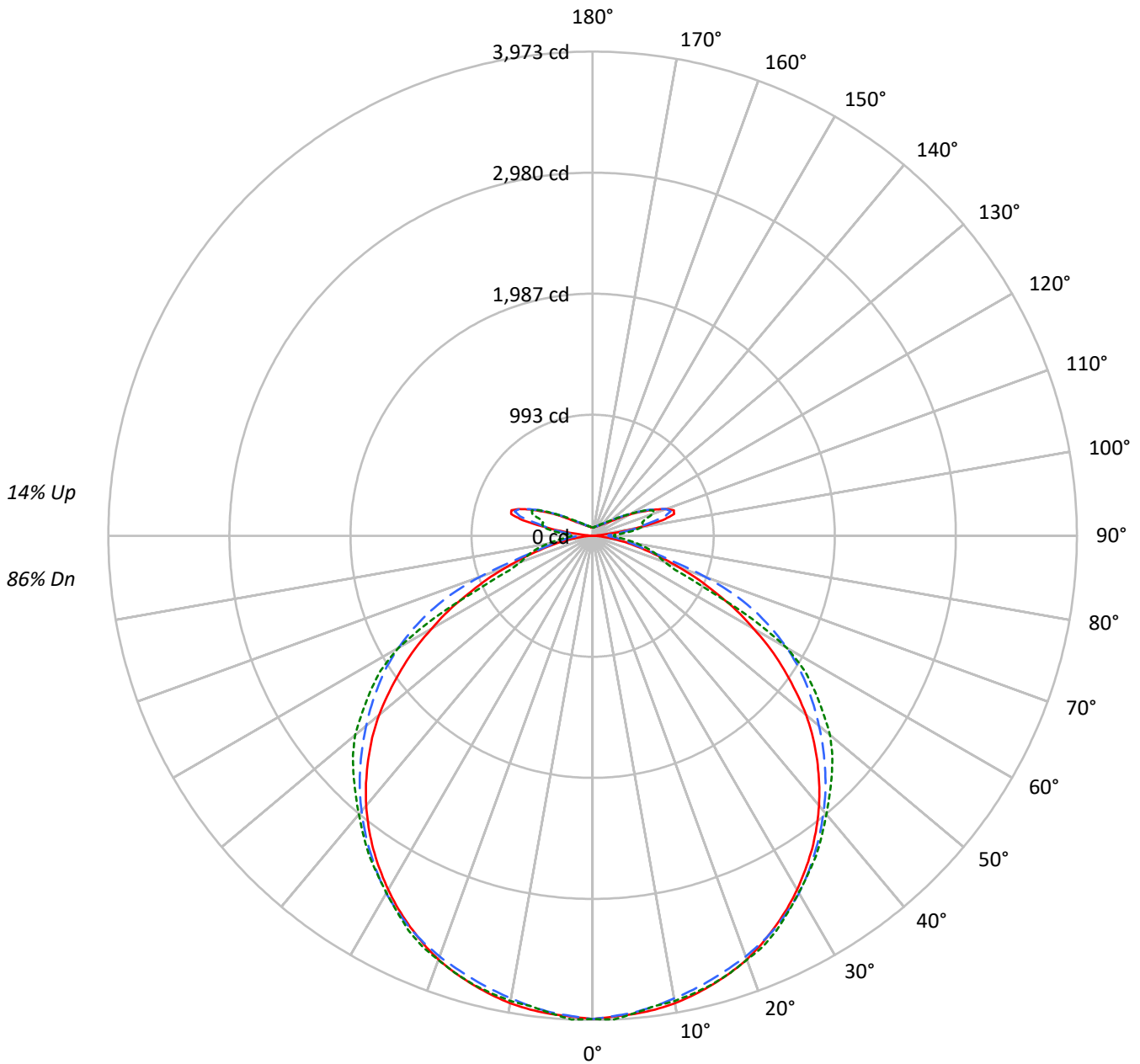
Lumens per Lamp: N/A
Luminaire Lumens: 12873.2 lumens
Efficiency: N/A
Efficacy: 156.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 0.88' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 82.3
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									
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	83	80	79	77	76	73																			
2	97	89	82	77	93	86	80	75	80	75	71	75	71	67	70	67	64	61																			
3	88	78	70	64	84	75	68	62	70	64	60	66	61	57	62	58	54	52																			
4	81	69	61	54	77	67	59	53	63	56	51	59	53	49	55	50	47	44																			
5	74	62	53	47	71	60	52	46	56	49	44	53	47	42	49	45	41	38																			
6	68	55	47	40	66	54	46	40	51	44	38	48	42	37	45	40	36	33																			
7	63	50	42	36	61	49	41	35	46	39	34	43	37	33	41	36	32	29																			
8	59	46	37	32	57	44	37	31	42	35	30	40	34	29	37	32	28	26																			
9	55	42	34	28	53	41	33	28	39	32	27	36	31	26	35	29	25	24																			
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°	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	2.9
10°-20°	1072.1	8.3
20°-30°	1637.5	12.7
30°-40°	1986.8	15.4
40°-50°	2082.4	16.2
50°-60°	1886.9	14.7
60°-70°	1265.1	9.8
70°-80°	568.1	4.4
80°-90°	210.3	1.6
90°-100°	221.4	1.7
100°-110°	582.6	4.5
110°-120°	490.1	3.8
120°-130°	236.4	1.8
130°-140°	119.6	0.9
140°-150°	70.0	0.5
150°-160°	41.4	0.3
160°-170°	21.8	0.2
170°-180°	6.7	0.1
0°-30°	3083.5	24.0
0°-40°	5070.4	39.4
0°-60°	9039.7	70.2
0°-90°	11083.3	86.1
90°-120°	1294.1	10.1
90°-150°	1720.0	13.4
90°-180°	1790.0	13.9
0°-180°	12873.2	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°	4	72	128	163	174	7
95°	36	107	187	236	261	112
105°	692	696	615	450	420	657
115°	482	490	499	498	498	486
125°	237	248	261	261	260	223
135°	143	146	152	156	158	113
145°	106	108	111	112	113	67
155°	86	88	89	90	90	40
165°	75	76	76	77	77	22
175°	69	69	69	68	68	7
180°	68	68	68	68	68	



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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°	4.3	72.0	128.5	163.4	<i>173.8</i>
92.5°	12.7	67.9	130.3	168.8	<i>180.2</i>
95°	35.9	106.7	186.6	236.3	<i>260.8</i>
97.5°	182.6	222.3	277.1	329.5	<i>346.7</i>
100°	375.8	412.8	375.9	401.4	<i>408.7</i>
102.5°	587.6	600.5	461.5	428.5	<i>424.7</i>
105°	691.9	696.2	615.2	449.9	<i>420.1</i>



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	564.2	571.9	572.2	562.5	540.4
115°	481.9	489.8	498.7	497.7	497.8
117.5°	411.2	415.2	425.6	427.2	429.3
120°	344.2	351.3	362.5	362.5	361.3
122.5°	288.4	296.8	307.7	307.8	306.5
125°	236.6	248.4	260.6	261.4	260.2
127.5°	201.8	210.2	223.2	224.0	222.7
130°	175.8	182.9	191.3	194.6	195.5
132.5°	158.7	162.1	169.4	172.6	174.5
135°	142.8	146.3	151.5	156.2	157.7
137.5°	131.4	134.2	137.9	142.6	144.1
140°	121.2	124.0	126.1	130.3	131.8
142.5°	112.1	115.6	117.7	120.4	121.9
145°	105.6	108.1	110.9	112.4	113.0
147.5°	99.8	101.6	103.5	105.3	105.9
150°	94.2	96.0	97.9	98.8	99.8
152.5°	90.4	91.4	93.2	94.2	94.2
155°	85.8	88.2	89.1	90.1	89.5
157.5°	83.0	84.5	85.4	86.4	86.4
160°	80.2	80.8	81.7	82.6	82.6
162.5°	78.0	78.0	78.9	79.8	79.8
165°	75.2	76.1	76.1	77.0	77.0
167.5°	73.3	73.9	74.3	74.3	75.2
170°	71.5	71.5	72.4	71.8	71.8
172.5°	69.6	70.5	70.5	70.0	70.0
175°	68.7	68.7	69.0	68.4	68.4
177.5°	68.3	68.7	68.1	67.5	66.9
180°	68.1	68.1	68.1	68.1	68.1



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	698.9	706.9	670.2	532.6	452.8
110°	640.9	654.1	640.5	589.8	526.7



(END OF REPORT)