

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: P826464

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

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P826464
REPORT IS A COMBINATION OF REPORTS P826153 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-NL-UNV-L830-CD-UPL18
Description:
Light Source: -
Ballast/Driver: -

Summary

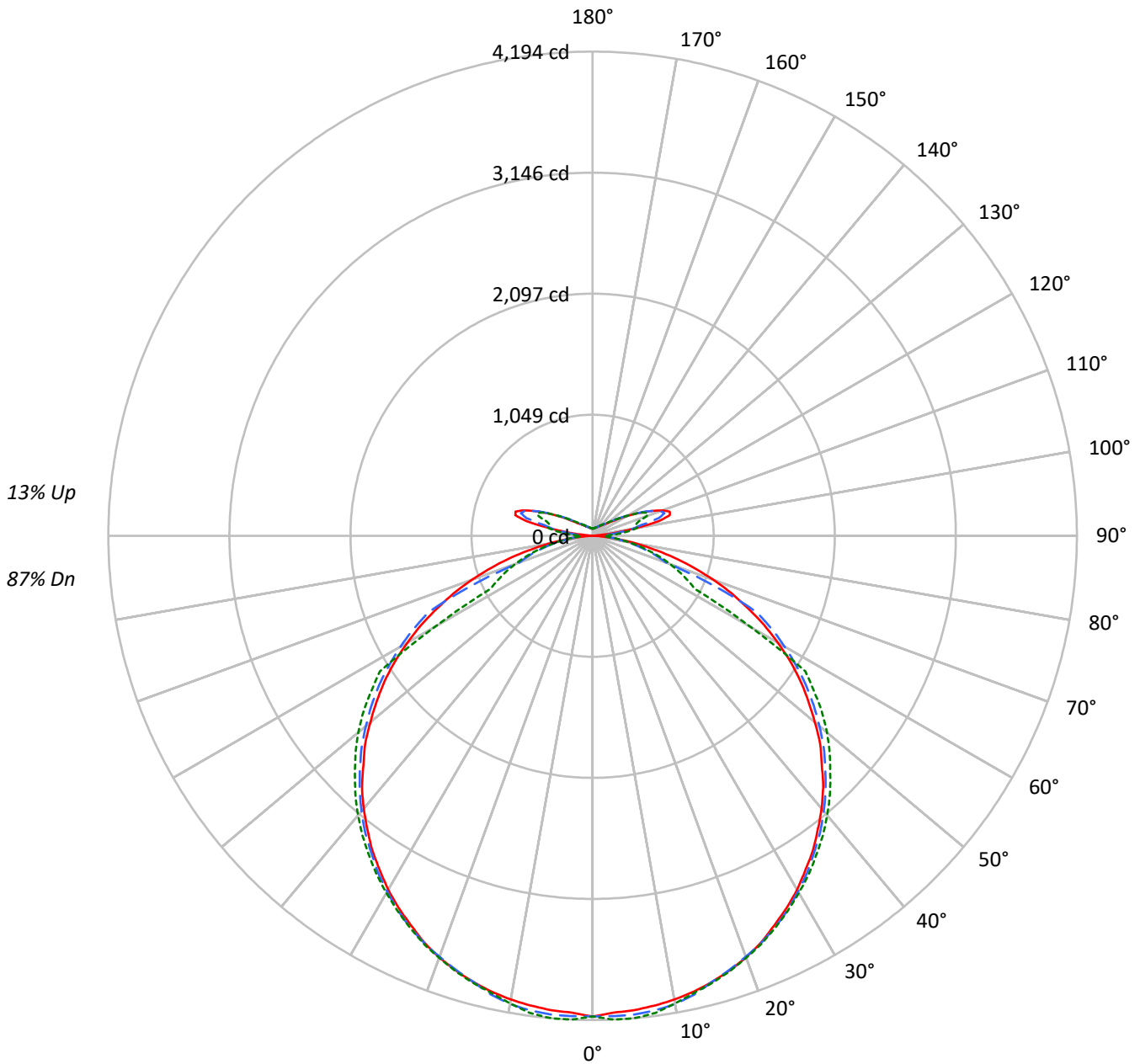
Lumens per Lamp: N/A
Luminaire Lumens: 13356.1 lumens
Efficiency: N/A
Efficacy: 162.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 0.88' x H: 0.1')
CIE Type: Semi-Direct

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

TEST NUMBER: P826464

CATALOG NUMBER: OHBL-12SE-NL-UNV-L830-CD-UPL18

Luminous Intensity Polar Plot





TEST NUMBER: P826464

CATALOG NUMBER: OHBL-12SE-NL-UNV-L830-CD-UPL18

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	116	116	116	116	112	112	112	112	104	104	104	97	97	97	90	90	90	87			87
1	106	102	98	94	102	98	95	91	92	89	86	86	83	81	80	78	77	74			74
2	97	89	83	77	93	86	80	75	81	76	72	75	71	68	71	67	65	62			62
3	88	78	71	64	85	76	69	63	71	65	60	67	62	58	63	58	55	52			52
4	81	69	61	55	78	67	59	53	63	57	51	59	54	49	56	51	47	45			45
5	74	62	53	47	71	60	52	46	57	50	44	53	47	43	50	45	41	39			39
6	69	56	47	41	66	54	46	40	51	44	39	48	42	37	45	40	36	34			34
7	64	50	42	36	61	49	41	35	46	39	34	44	38	33	41	36	32	30			30
8	59	46	38	32	57	45	37	31	42	35	31	40	34	30	38	33	29	27			27
9	55	42	34	29	53	41	33	28	39	32	27	37	31	27	35	30	26	24			24
10	52	39	31	26	50	38	30	26	36	29	25	34	28	24	32	27	23	22			22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13547	13547	13547
5°	13338	13476	13664
10°	13209	13369	13524
15°	13073	13121	13405
20°	12917	12965	13339
25°	12687	12835	13278
30°	12478	12643	13220
35°	12235	12421	13168
40°	11954	12205	13129
45°	11587	11920	13048
50°	11193	11600	12995
55°	10724	11205	12775
60°	10063	10648	9869
65°	9161	9947	6574
70°	8029	5032	6285
75°	6451	4440	5860
80°	4293	3571	5130
85°	1549	2641	4437



TEST NUMBER: P826464

CATALOG NUMBER: OHBL-12SE-NL-UNV-L830-CD-UPL18

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	395.6	3.0
10°-20°	1132.7	8.5
20°-30°	1723.4	12.9
30°-40°	2095.5	15.7
40°-50°	2203.3	16.5
50°-60°	2011.9	15.1
60°-70°	1289.7	9.7
70°-80°	609.2	4.6
80°-90°	173.1	1.3
90°-100°	204.1	1.5
100°-110°	565.6	4.2
110°-120°	478.8	3.6
120°-130°	228.3	1.7
130°-140°	114.0	0.9
140°-150°	66.2	0.5
150°-160°	38.6	0.3
160°-170°	20.0	0.2
170°-180°	6.1	0.0
0°-30°	3251.7	24.3
0°-40°	5347.2	40.0
0°-60°	9562.3	71.6
0°-90°	11634.4	87.1
90°-120°	1248.4	9.3
90°-150°	1657.0	12.4
90°-180°	1722.0	12.9
0°-180°	13356.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4164	4164	4164	4164	4164	
5°	4125	4141	4162	4185	4194	392
15°	4000	4030	4000	4005	4008	1129
25°	3723	3728	3742	3747	3744	1718
35°	3327	3308	3346	3386	3377	2079
45°	2806	2801	2849	2916	2911	2169
55°	2199	2182	2256	2331	2337	1961
65°	1482	1482	1568	899	902	1469
75°	732	746	484	510	512	772
85°	96	121	151	164	155	141
90°	4	64	99	121	125	7
95°	38	98	168	220	243	112
105°	693	691	594	422	390	658
115°	481	488	489	482	476	484
125°	233	244	250	249	248	219
135°	138	140	145	147	148	109
145°	100	102	105	106	106	64
155°	80	82	83	84	84	38
165°	69	70	70	71	71	20
175°	62	62	63	63	63	6
180°	62	62	62	62	62	



TEST NUMBER: P826464

CATALOG NUMBER: OHBL-12SE-NL-UNV-L830-CD-UPL18

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4163.9	4163.9	4163.9	4163.9	4163.9
2.5°	4134.6	4148.6	4163.9	4183.6	4194.5
5°	4125.2	4141.3	4162.4	4185.1	4193.8
7.5°	4104.7	4127.3	4147.8	4163.9	4169.0
10°	4079.1	4106.2	4117.9	4116.4	4112.8
12.5°	4044.8	4073.3	4069.7	4052.8	4055.7
15°	4000.2	4030.1	3999.5	4005.3	4008.3
17.5°	3947.6	3976.8	3941.0	3952.7	3953.5
20°	3886.3	3908.1	3880.4	3889.9	3889.9
22.5°	3812.5	3827.7	3816.1	3822.6	3824.1
25°	3722.6	3728.4	3741.5	3747.4	3744.5
27.5°	3636.4	3629.1	3654.7	3668.5	3661.2
30°	3540.7	3528.9	3558.9	3581.5	3572.8
32.5°	3431.1	3423.8	3458.1	3485.1	3480.0
35°	3327.3	3307.6	3345.5	3386.5	3377.0
37.5°	3204.6	3192.8	3235.9	3279.1	3274.0
40°	3084.7	3065.0	3113.9	3165.1	3160.0
42.5°	2956.2	2932.7	2986.1	3047.5	3041.6
45°	2806.3	2801.3	2848.7	2915.9	2910.9
47.5°	2673.4	2647.8	2714.2	2779.3	2785.2
50°	2512.6	2503.2	2563.8	2642.7	2648.5
52.5°	2355.6	2349.0	2412.5	2492.2	2502.4
55°	2199.2	2182.3	2256.2	2331.4	2337.4
57.5°	2032.0	2014.4	2089.7	2171.5	2183.8
60°	1852.8	1836.1	1918.6	1994.6	1586.2
62.5°	1673.9	1662.2	1748.4	1238.5	998.1
65°	1481.7	1481.7	1567.9	899.4	902.4
67.5°	1302.0	1290.3	1169.1	808.0	808.0
70°	1109.1	1113.5	673.6	708.1	708.7
72.5°	915.5	931.6	581.6	609.3	610.8
75°	732.1	746.0	484.4	510.0	512.2
77.5°	537.8	413.5	389.4	409.2	409.9
80°	377.7	260.8	298.2	317.0	314.9
82.5°	220.6	182.7	218.4	232.4	231.6
85°	95.7	121.3	151.2	163.7	154.8
87.5°	30.6	75.3	94.2	101.5	100.8
90°	3.7	64.2	98.8	121.4	124.7
92.5°	12.1	62.8	109.6	143.9	152.0
95°	37.5	97.5	168.3	220.4	242.8
97.5°	182.9	213.6	255.8	313.5	329.9
100°	375.6	405.1	352.1	381.7	388.1
102.5°	588.9	594.6	436.3	404.9	400.0
105°	693.2	691.0	594.3	422.1	389.7



TEST NUMBER: P826464

CATALOG NUMBER: OHBL-12SE-NL-UNV-L830-CD-UPL18

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	564.6	569.8	560.8	543.7	515.2
115°	481.0	488.1	489.3	481.6	476.2
117.5°	406.7	409.4	411.3	409.4	410.4
120°	339.7	346.2	349.9	347.1	345.2
122.5°	283.8	292.2	296.8	294.1	292.2
125°	232.6	243.8	250.3	249.4	247.5
127.5°	197.3	205.7	214.0	213.1	211.2
130°	171.2	177.7	183.3	184.2	185.2
132.5°	153.5	156.3	161.9	162.8	164.7
135°	137.7	140.5	145.2	147.0	148.0
137.5°	125.6	128.4	132.1	134.0	134.9
140°	115.4	118.2	121.0	122.8	123.8
142.5°	107.0	109.8	112.6	113.5	114.5
145°	100.5	102.4	105.2	106.1	106.1
147.5°	94.0	95.8	97.7	99.6	99.6
150°	88.4	90.3	92.1	93.1	94.0
152.5°	84.7	85.6	87.5	88.4	88.4
155°	80.0	81.9	82.8	83.8	83.8
157.5°	77.2	78.2	79.1	80.0	80.0
160°	74.4	74.4	75.4	76.3	76.3
162.5°	71.7	71.7	72.6	73.5	73.5
165°	68.9	69.8	69.8	70.7	70.7
167.5°	67.0	67.0	67.9	67.9	68.9
170°	65.1	65.1	66.1	66.1	66.1
172.5°	63.3	64.2	64.2	64.2	64.2
175°	62.3	62.3	63.3	63.3	63.3
177.5°	61.4	62.3	62.3	62.3	62.3
180°	62.3	62.3	62.3	62.3	62.3



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	699.7	703.3	652.3	505.4	420.0
110°	641.8	651.5	625.7	567.0	497.6



(END OF REPORT)