

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: P826510

Luminaire Tested: **OHBL-18SE-A-UNV-L830-CD-UPL18**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P826510
REPORT IS A COMBINATION OF REPORTS P826161 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-18SE-A-UNV-L830-CD-UPL18
Description:
Light Source: -
Ballast/Driver: -

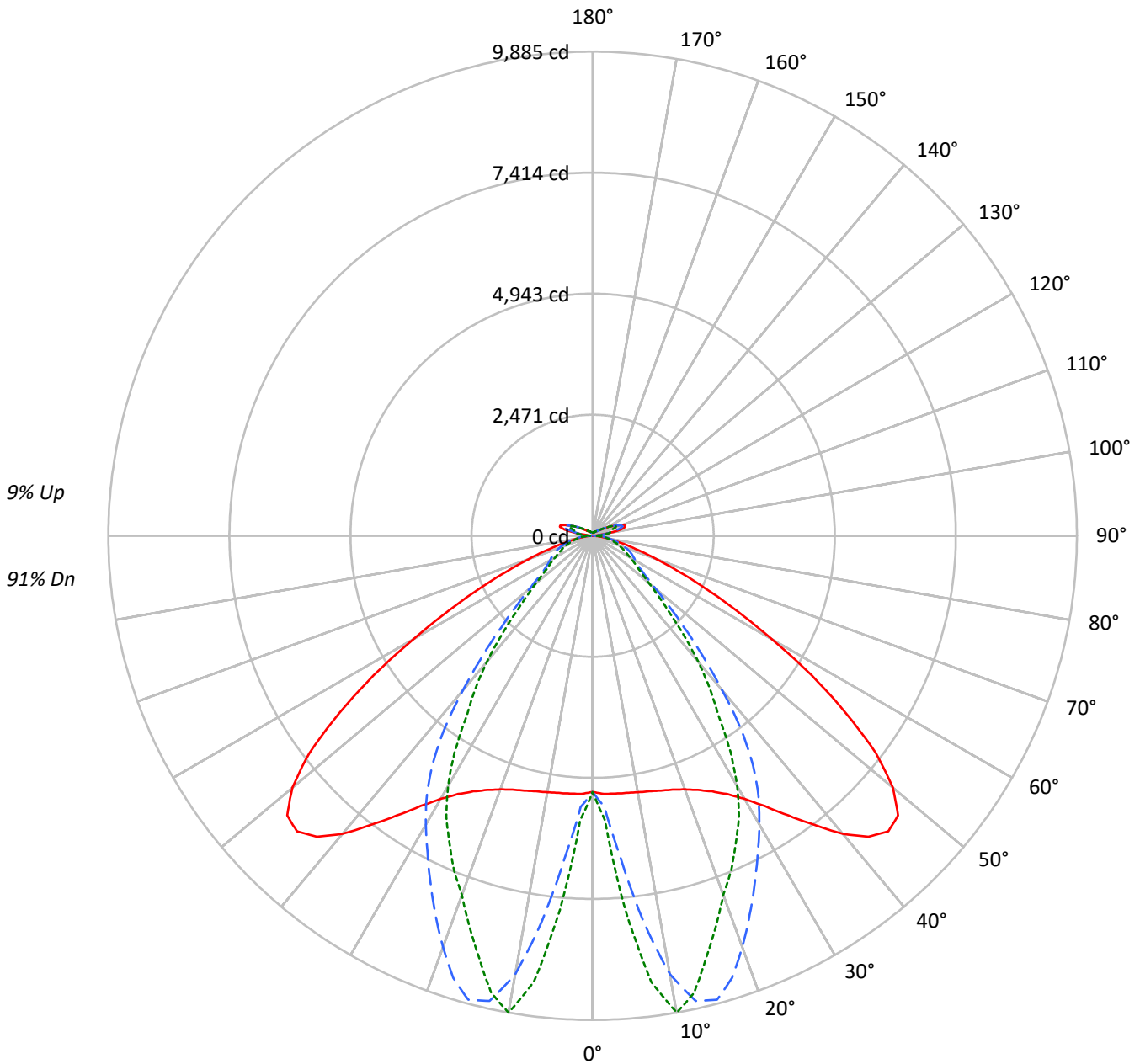
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18451.9 lumens
Efficiency: N/A
Efficacy: 157.3 lumens/watt
Spacing Criteria (0/90/45): 2.18 / 1.37 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')
CIE Type: Direct

Input Watts (W): 117.3
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: P826510
CATALOG NUMBER: OHBL-18SE-A-UNV-L830-CD-UPL18

Luminous Intensity Polar Plot





TEST NUMBER: P826510

CATALOG NUMBER: OHBL-18SE-A-UNV-L830-CD-UPL18

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	106	106	106	100	100	100	94	94	94	91																			
1	108	104	101	98	105	101	98	95	96	93	91	90	88	86	85	84	82	80																			
2	100	93	88	83	97	91	85	81	86	82	78	81	78	75	77	74	72	69																			
3	93	84	77	71	90	81	75	70	77	72	68	74	69	65	70	66	63	61																			
4	86	75	68	62	83	74	67	61	70	64	59	67	62	58	64	60	56	54																			
5	80	68	60	55	77	67	59	54	64	57	53	61	56	51	58	54	50	48																			
6	74	62	54	49	72	61	53	48	58	52	47	56	50	46	54	49	45	43																			
7	69	57	49	44	67	56	48	43	54	47	42	51	46	41	49	44	41	39																			
8	65	52	45	39	63	51	44	39	49	43	38	47	42	38	46	41	37	35																			
9	61	48	41	36	59	47	40	36	46	39	35	44	38	34	42	37	34	32																			
10	57	45	38	33	55	44	37	32	42	36	32	41	35	31	40	35	31	29																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8934	8934	8934
5°	8980	11237	13097
10°	9060	15493	17012
15°	9276	16877	15614
20°	9660	15660	13954
25°	10364	14083	12764
30°	11557	12681	11350
35°	13586	11099	9044
40°	16336	8452	7198
45°	18739	5759	5123
50°	18997	3950	3789
55°	16444	3109	3095
60°	12283	2909	2785
65°	8419	2918	2638
70°	5383	2815	2555
75°	3237	2605	2445
80°	1905	2289	2523
85°	917	1965	2338



TEST NUMBER: P826510

CATALOG NUMBER: OHBL-18SE-A-UNV-L830-CD-UPL18

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	682.9	3.7
10°-20°	2410.3	13.1
20°-30°	3551.8	19.2
30°-40°	3732.4	20.2
40°-50°	2856.0	15.5
50°-60°	1724.5	9.3
60°-70°	1052.4	5.7
70°-80°	574.4	3.1
80°-90°	205.8	1.1
90°-100°	159.3	0.9
100°-110°	553.3	3.0
110°-120°	475.4	2.6
120°-130°	228.3	1.2
130°-140°	114.0	0.6
140°-150°	66.2	0.4
150°-160°	38.6	0.2
160°-170°	20.0	0.1
170°-180°	6.1	0.0
0°-30°	6645.1	36.0
0°-40°	10377.4	56.2
0°-60°	14957.9	81.1
0°-90°	16790.5	91.0
90°-120°	1188.1	6.4
90°-150°	1596.6	8.7
90°-180°	1661.0	9.0
0°-180°	18451.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5231	5231	5231	5231	5231	
5°	5284	5668	6613	7384	7668	505
15°	5386	8390	9805	9150	8934	1532
25°	5756	9737	7828	7087	6912	2690
35°	6972	7798	5703	4749	4472	4423
45°	8534	4449	2627	2312	2214	6448
55°	6311	1509	1196	1108	1105	5577
65°	2530	955	880	753	714	2592
75°	674	594	545	450	431	775
85°	100	184	217	198	179	124
90°	4	23	32	42	46	8
95°	35	76	120	155	178	111
105°	690	683	582	410	379	654
115°	477	483	482	476	476	482
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: P826510

CATALOG NUMBER: OHBL-18SE-A-UNV-L830-CD-UPL18

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5231.0	5231.0	5231.0	5231.0	5231.0
2.5°	5273.9	5327.7	5540.0	5760.2	5813.8
5°	5283.5	5668.5	6612.6	7383.6	7668.5
7.5°	5294.8	6220.5	7941.7	8885.6	9187.7
10°	5316.1	6918.6	9093.4	9771.0	9885.2
12.5°	5342.5	7658.2	9727.0	9702.3	9558.4
15°	5386.5	8389.7	9805.1	9149.7	8934.5
17.5°	5432.8	9008.5	9464.6	8548.0	8360.8
20°	5507.9	9467.9	8935.0	8013.3	7800.4
22.5°	5616.2	9720.6	8379.6	7529.7	7390.8
25°	5756.0	9736.9	7828.0	7087.0	6912.1
27.5°	5943.3	9511.0	7299.3	6653.5	6468.7
30°	6198.1	9078.5	6808.0	6130.6	5901.3
32.5°	6544.2	8456.1	6301.5	5499.3	5242.3
35°	6972.2	7797.5	5702.8	4749.3	4471.5
37.5°	7439.2	7066.2	4976.2	4085.0	3923.3
40°	7941.7	6312.7	4115.1	3463.4	3347.7
42.5°	8333.8	5493.5	3315.2	2878.2	2755.1
45°	8533.7	4449.4	2627.0	2311.6	2214.4
47.5°	8455.9	3453.8	2082.6	1836.7	1807.5
50°	8001.6	2550.3	1667.1	1513.0	1500.9
52.5°	7291.4	1900.8	1377.0	1281.7	1260.9
55°	6310.9	1508.7	1195.9	1108.4	1104.9
57.5°	5298.6	1281.7	1085.5	1017.7	994.2
60°	4218.8	1142.9	1001.8	925.3	877.5
62.5°	3306.9	1045.8	940.3	836.5	791.8
65°	2530.1	955.1	879.7	752.8	714.5
67.5°	1886.0	868.8	805.8	664.9	642.5
70°	1374.2	780.2	721.4	591.3	573.6
72.5°	979.4	691.8	637.1	522.2	502.7
75°	673.6	594.0	544.8	449.6	431.4
77.5°	454.5	494.1	454.0	383.8	376.2
80°	303.5	391.9	367.2	325.2	320.6
82.5°	184.2	284.5	289.8	264.5	251.7
85°	100.3	184.2	217.1	197.8	179.4
87.5°	39.3	102.1	149.6	134.4	126.6
90°	3.7	23.3	31.6	41.9	46.5
92.5°	12.1	30.7	51.2	70.7	78.2
95°	35.4	76.3	120.0	155.4	177.7
97.5°	181.5	198.2	221.5	262.4	277.3
100°	374.1	392.7	329.4	345.2	350.8
102.5°	585.3	584.4	422.5	381.5	375.9
105°	689.5	683.0	582.5	410.4	378.7



TEST NUMBER: P826510

CATALOG NUMBER: OHBL-18SE-A-UNV-L830-CD-UPL18

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	560.2	563.9	552.8	537.9	514.6
115°	477.4	483.0	482.0	476.4	475.5
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°	696.1	696.1	642.1	498.8	417.8
110°	637.4	644.9	617.0	561.1	496.9



(END OF REPORT)