

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: P827714

Luminaire Tested: **OHBL-18SE-MCL-UNV-L930-CD-UPL24**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P827714
REPORT IS A COMBINATION OF REPORTS P826234 AND G3-2310-221-6
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-18SE-MCL-UNV-L930-CD-UPL24
Description:
Light Source: -
Ballast/Driver: -

Summary

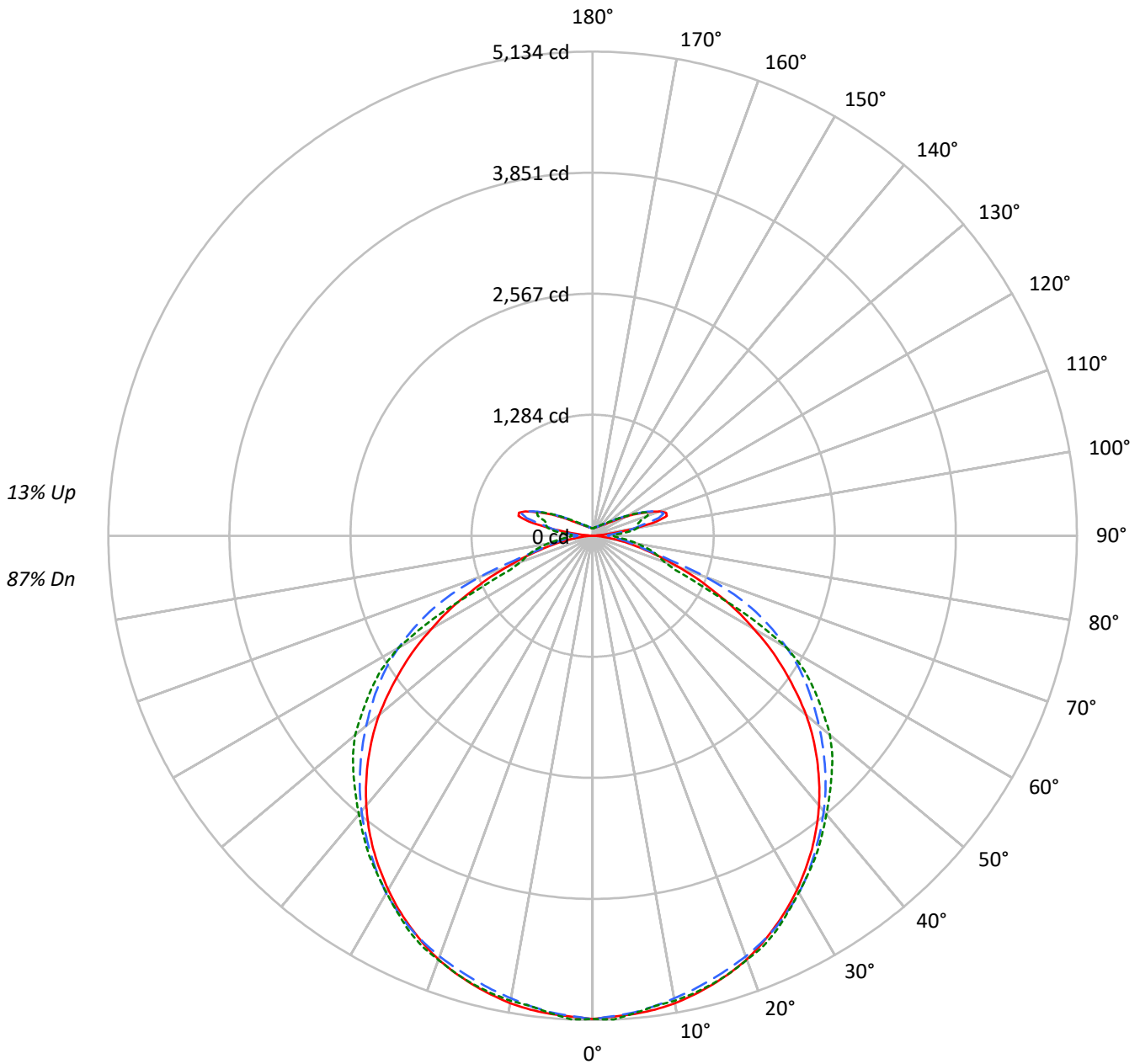
Lumens per Lamp: N/A
Luminaire Lumens: 16437.7 lumens
Efficiency: N/A
Efficacy: 134.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 122.4
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

TEST NUMBER: P827714

CATALOG NUMBER: OHBL-18SE-MCL-UNV-L930-CD-UPL24

Luminous Intensity Polar Plot





TEST NUMBER: P827714

CATALOG NUMBER: OHBL-18SE-MCL-UNV-L930-CD-UPL24

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	94	91	92	89	86	85	83	81	80	78	76	74				74
2	97	89	82	77	93	86	80	75	80	75	71	75	71	68	70	67	64	62				62
3	88	78	70	64	85	76	68	63	71	65	60	66	61	57	62	58	55	52				52
4	81	69	61	54	78	67	59	53	63	56	51	59	54	49	56	51	47	45				45
5	74	62	53	47	71	60	52	46	56	49	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	63	50	42	36	61	49	41	35	46	39	34	44	38	33	41	36	32	30				30
8	59	46	37	32	57	45	37	31	42	35	30	40	34	29	38	33	29	26				26
9	55	42	34	28	53	41	33	28	39	32	27	37	31	26	35	30	26	24				24
10	52	39	31	26	50	38	30	25	36	29	25	34	28	24	32	27	23	22				22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8751	8751	8751
5°	8652	8620	8678
10°	8578	8485	8618
15°	8481	8384	8598
20°	8384	8319	8560
25°	8238	8253	8524
30°	8082	8151	8405
35°	7902	7992	8361
40°	7680	7827	8289
45°	7390	7637	8292
50°	7014	7422	8293
55°	6453	7208	8060
60°	5740	6898	7542
65°	4837	6329	4855
70°	3802	4931	3597
75°	2748	2919	3770
80°	1799	2415	3801
85°	901	2194	3997



TEST NUMBER: P827714

CATALOG NUMBER: OHBL-18SE-MCL-UNV-L930-CD-UPL24

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	483.1	2.9
10°-20°	1385.3	8.4
20°-30°	2115.8	12.9
30°-40°	2567.2	15.6
40°-50°	2690.6	16.4
50°-60°	2438.1	14.8
60°-70°	1634.7	9.9
70°-80°	734.0	4.5
80°-90°	271.3	1.7
90°-100°	267.6	1.6
100°-110°	688.5	4.2
110°-120°	577.1	3.5
120°-130°	278.2	1.7
130°-140°	141.2	0.9
140°-150°	82.5	0.5
150°-160°	48.9	0.3
160°-170°	25.8	0.2
170°-180°	7.9	0.0
0°-30°	3984.2	24.2
0°-40°	6551.4	39.9
0°-60°	11680.1	71.1
0°-90°	14320.2	87.1
90°-120°	1533.1	9.3
90°-150°	2035.0	12.4
90°-180°	2118.0	12.9
0°-180°	16437.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5124	5124	5124	5124	5124	
5°	5090	5108	5072	5088	5081	484
15°	4925	4906	4871	4914	4920	1391
25°	4575	4555	4587	4629	4616	2109
35°	4055	4065	4106	4150	4134	2535
45°	3366	3420	3484	3573	3584	2593
55°	2477	2596	2773	2884	2877	2211
65°	1454	1681	1908	1610	1315	1448
75°	572	830	610	624	665	625
85°	98	189	242	293	307	120
90°	5	90	163	207	220	9
95°	44	129	225	289	316	134
105°	814	819	724	537	500	773
115°	565	574	586	591	587	570
125°	278	294	307	308	306	261
135°	168	172	179	184	186	133
145°	124	128	130	132	133	79
155°	101	104	105	106	105	47
165°	89	90	91	91	91	25
175°	81	82	81	81	81	8
180°	80	80	80	80	80	



TEST NUMBER: P827714

CATALOG NUMBER: OHBL-18SE-MCL-UNV-L930-CD-UPL24

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5123.5	5123.5	5123.5	5123.5	5123.5
2.5°	5102.8	5124.3	5097.6	5126.4	5133.9
5°	5090.2	5107.9	5072.4	5088.0	5081.3
7.5°	5067.2	5073.1	5030.9	5043.5	5030.2
10°	5033.1	5030.2	4980.5	5005.0	5007.9
12.5°	4982.7	4973.8	4929.4	4966.4	4967.2
15°	4924.9	4905.7	4870.9	4913.9	4919.8
17.5°	4858.2	4833.1	4810.1	4865.7	4856.8
20°	4780.5	4750.9	4746.5	4807.2	4784.9
22.5°	4684.2	4661.3	4671.6	4729.4	4715.3
25°	4575.3	4555.3	4587.1	4629.4	4616.1
27.5°	4460.5	4448.6	4484.9	4517.5	4491.6
30°	4334.5	4327.8	4376.0	4402.7	4370.1
32.5°	4197.4	4199.7	4245.6	4281.9	4251.6
35°	4055.2	4064.9	4106.3	4150.1	4133.7
37.5°	3898.9	3920.4	3961.9	4011.5	3994.5
40°	3733.7	3764.8	3810.7	3870.8	3855.2
42.5°	3555.2	3594.4	3653.7	3720.4	3718.9
45°	3365.5	3420.4	3484.1	3573.0	3584.1
47.5°	3168.5	3229.9	3310.7	3429.3	3446.2
50°	2954.4	3031.4	3132.2	3274.4	3284.8
52.5°	2715.8	2821.0	2954.4	3090.7	3078.1
55°	2476.6	2595.8	2772.9	2884.0	2877.3
57.5°	2238.0	2372.1	2586.9	2666.2	2665.5
60°	1971.3	2141.0	2375.8	2435.8	2376.6
62.5°	1724.7	1906.9	2150.6	2106.9	1903.9
65°	1453.5	1680.9	1908.3	1610.5	1314.9
67.5°	1212.7	1449.7	1620.9	1103.1	944.5
70°	970.5	1232.0	1263.8	818.6	807.5
72.5°	755.6	1034.2	871.9	700.8	736.4
75°	571.9	829.8	610.5	624.5	665.3
77.5°	417.1	637.1	474.9	547.5	580.8
80°	286.7	451.1	387.4	460.0	483.0
82.5°	180.0	297.8	310.4	370.4	394.1
85°	98.5	188.9	242.3	292.6	306.7
87.5°	40.7	114.1	185.2	225.9	237.8
90°	4.8	90.5	163.2	207.2	220.3
92.5°	14.5	84.6	160.5	209.1	224.8
95°	43.6	129.0	225.0	288.7	316.0
97.5°	218.9	266.3	324.9	393.0	422.7
100°	448.4	499.6	442.3	476.8	486.3
102.5°	692.5	706.2	549.9	508.6	504.3
105°	813.7	818.9	724.4	536.9	499.6



TEST NUMBER: P827714

CATALOG NUMBER: OHBL-18SE-MCL-UNV-L930-CD-UPL24

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	658.3	673.2	675.1	663.2	638.7
115°	565.3	573.9	586.5	590.8	587.4
117.5°	484.4	486.8	501.1	504.7	507.0
120°	402.0	411.6	428.6	428.2	424.1
122.5°	338.1	347.8	360.8	362.9	358.8
125°	278.4	293.7	306.8	308.1	306.5
127.5°	237.1	247.6	261.7	264.6	264.6
130°	207.2	214.4	226.2	230.0	230.8
132.5°	185.3	191.7	199.6	205.8	205.0
135°	168.3	172.3	178.7	184.1	186.4
137.5°	155.4	157.8	162.6	168.7	169.5
140°	143.2	146.5	149.7	154.3	155.8
142.5°	131.9	136.0	138.4	142.3	143.0
145°	123.8	127.9	130.3	131.8	133.4
147.5°	117.4	120.6	122.2	123.8	124.6
150°	111.7	113.3	115.8	116.6	117.4
152.5°	106.1	107.7	110.1	110.9	110.9
155°	101.2	103.5	105.2	106.0	105.2
157.5°	97.2	99.5	101.1	101.9	101.9
160°	93.9	95.5	97.1	97.9	97.9
162.5°	91.4	92.2	93.0	93.8	93.8
165°	89.0	89.8	90.6	90.6	90.6
167.5°	86.6	87.3	87.4	88.2	88.2
170°	84.1	85.0	85.0	85.0	85.0
172.5°	82.5	83.3	83.3	82.6	83.4
175°	80.9	81.7	81.0	81.0	81.0
177.5°	81.6	80.9	80.2	79.4	78.7
180°	80.2	80.2	80.2	80.2	80.2



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	817.7	831.3	790.5	633.0	535.8
110°	755.4	770.1	752.2	696.6	618.9



(END OF REPORT)