

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: P827712

Luminaire Tested: **OHBL-18SE-MCL-UNV-L930-CD-UPL12**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P827712
REPORT IS A COMBINATION OF REPORTS P826066 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-18SE-MCL-UNV-L930-CD-UPL12
Description:
Light Source: -
Ballast/Driver: -

Summary

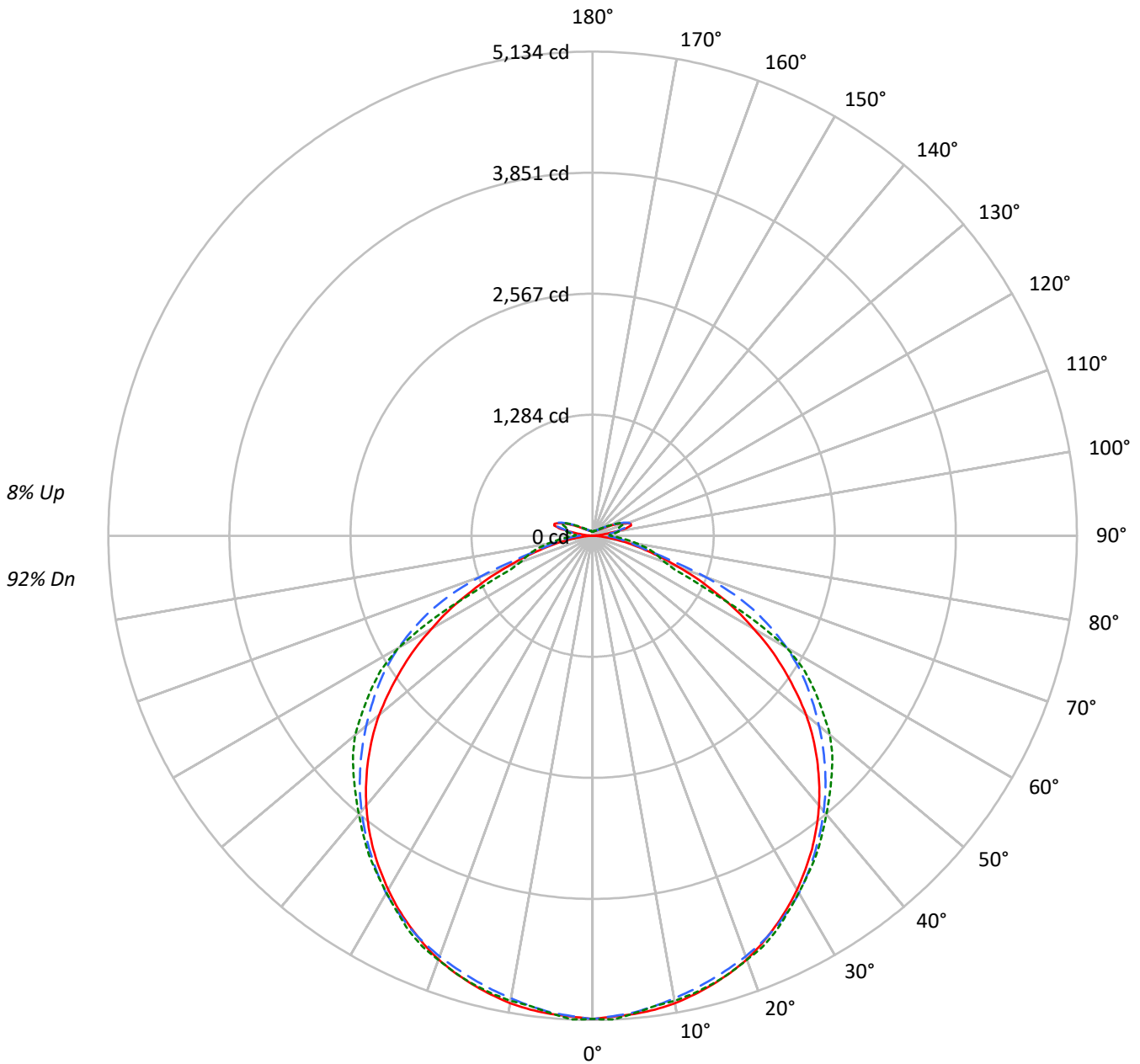
Lumens per Lamp: N/A
Luminaire Lumens: 15487.9 lumens
Efficiency: N/A
Efficacy: 136.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')
CIE Type: Direct

Input Watts (W): 113.4
Input Voltage (V): NR
Input Current (Ain): 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: P827712

CATALOG NUMBER: OHBL-18SE-MCL-UNV-L930-CD-UPL12

Luminous Intensity Polar Plot





TEST NUMBER: P827712

CATALOG NUMBER: OHBL-18SE-MCL-UNV-L930-CD-UPL12

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	114	114	114	114	107	107	107	101	101	101	95	95	95	92																			
1	107	103	99	95	104	100	96	93	94	91	88	89	87	84	84	82	81	78																			
2	98	90	83	78	95	87	81	76	83	78	73	78	74	71	74	71	68	65																			
3	89	79	71	65	86	77	70	64	73	67	62	69	64	60	66	61	58	55																			
4	82	70	62	55	79	68	60	54	65	58	53	62	56	51	59	54	50	47																			
5	75	63	54	47	73	61	53	47	58	51	45	55	49	44	53	47	43	41																			
6	69	56	47	41	67	55	47	41	52	45	40	50	44	39	48	42	38	36																			
7	64	51	42	36	62	50	42	36	48	40	35	46	39	34	44	38	34	32																			
8	60	46	38	32	58	45	37	32	43	36	31	42	35	31	40	34	30	28																			
9	56	43	34	29	54	42	34	29	40	33	28	38	32	28	37	31	27	25																			
10	52	39	31	26	51	38	31	26	37	30	26	36	29	25	34	29	25	23																			

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: P827712

CATALOG NUMBER: OHBL-18SE-MCL-UNV-L930-CD-UPL12

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	483.1	3.1
10°-20°	1385.3	8.9
20°-30°	2115.8	13.7
30°-40°	2567.2	16.6
40°-50°	2690.6	17.4
50°-60°	2438.1	15.7
60°-70°	1634.7	10.6
70°-80°	734.0	4.7
80°-90°	268.9	1.7
90°-100°	176.3	1.1
100°-110°	372.4	2.4
110°-120°	306.3	2.0
120°-130°	148.2	1.0
130°-140°	76.1	0.5
140°-150°	44.9	0.3
150°-160°	27.0	0.2
160°-170°	14.5	0.1
170°-180°	4.4	0.0
0°-30°	3984.2	25.7
0°-40°	6551.4	42.3
0°-60°	11680.1	75.4
0°-90°	14317.7	92.4
90°-120°	855.1	5.5
90°-150°	1124.3	7.3
90°-180°	1170.0	7.6
0°-180°	15487.9	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°	3	78	145	182	193	8
95°	21	86	155	198	216	67
105°	421	430	395	301	283	399
115°	297	300	313	317	313	296
125°	147	154	164	165	167	138
135°	89	92	96	101	102	71
145°	67	70	70	72	74	43
155°	56	58	58	59	58	26
165°	50	50	51	51	51	14
175°	46	46	45	45	45	4
180°	45	45	45	45	45	



TEST NUMBER: P827712

CATALOG NUMBER: OHBL-18SE-MCL-UNV-L930-CD-UPL12

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°	3.2	77.5	144.6	182.1	192.8
92.5°	8.0	66.8	133.0	170.3	179.5
95°	20.9	86.2	155.4	198.2	215.7
97.5°	110.6	149.9	206.0	245.1	256.2
100°	225.3	266.0	259.6	281.1	287.4
102.5°	357.8	370.8	305.8	292.0	290.1
105°	420.9	430.1	394.6	300.9	282.9



TEST NUMBER: P827712

CATALOG NUMBER: OHBL-18SE-MCL-UNV-L930-CD-UPL12

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	343.1	350.7	363.1	356.8	344.5
115°	296.9	299.9	313.3	316.8	313.4
117.5°	250.0	254.8	268.3	270.3	270.1
120°	210.4	216.0	227.3	227.7	228.5
122.5°	178.1	182.1	192.7	194.0	195.5
125°	147.4	153.8	164.5	165.1	166.7
127.5°	124.7	129.6	141.2	142.6	143.3
130°	109.4	113.3	121.1	124.9	124.9
132.5°	98.8	102.0	107.4	111.2	112.0
135°	89.1	92.3	96.3	100.8	101.5
137.5°	83.4	85.0	87.5	91.9	93.5
140°	77.0	79.4	80.2	84.0	84.7
142.5°	71.3	73.7	74.5	77.6	79.1
145°	67.3	69.7	70.5	72.0	73.6
147.5°	64.0	65.6	67.3	67.3	68.8
150°	61.6	62.4	63.2	64.0	64.0
152.5°	58.4	59.2	60.0	60.8	60.8
155°	55.9	57.5	58.3	59.1	58.4
157.5°	53.5	55.9	55.9	56.7	56.7
160°	51.9	53.4	54.2	54.2	54.2
162.5°	51.0	51.8	51.8	52.6	52.6
165°	50.2	50.2	51.0	51.0	51.0
167.5°	48.6	49.3	49.4	49.4	49.4
170°	47.8	47.8	47.8	47.9	47.9
172.5°	47.0	47.0	47.0	46.2	46.2
175°	46.2	46.2	45.4	44.6	44.6
177.5°	46.1	46.2	45.4	44.6	43.9
180°	44.6	44.6	44.6	44.6	44.6



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	424.1	436.0	425.1	345.2	295.0
110°	389.2	402.3	403.0	376.5	336.8



(END OF REPORT)