

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: P827657

Luminaire Tested: **OHBL-12SE-MCL-UNV-L930-CD-UPL12**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P827657
REPORT IS A COMBINATION OF REPORTS P826054 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-12SE-MCL-UNV-L930-CD-UPL12
Description:
Light Source: -
Ballast/Driver: -

Summary

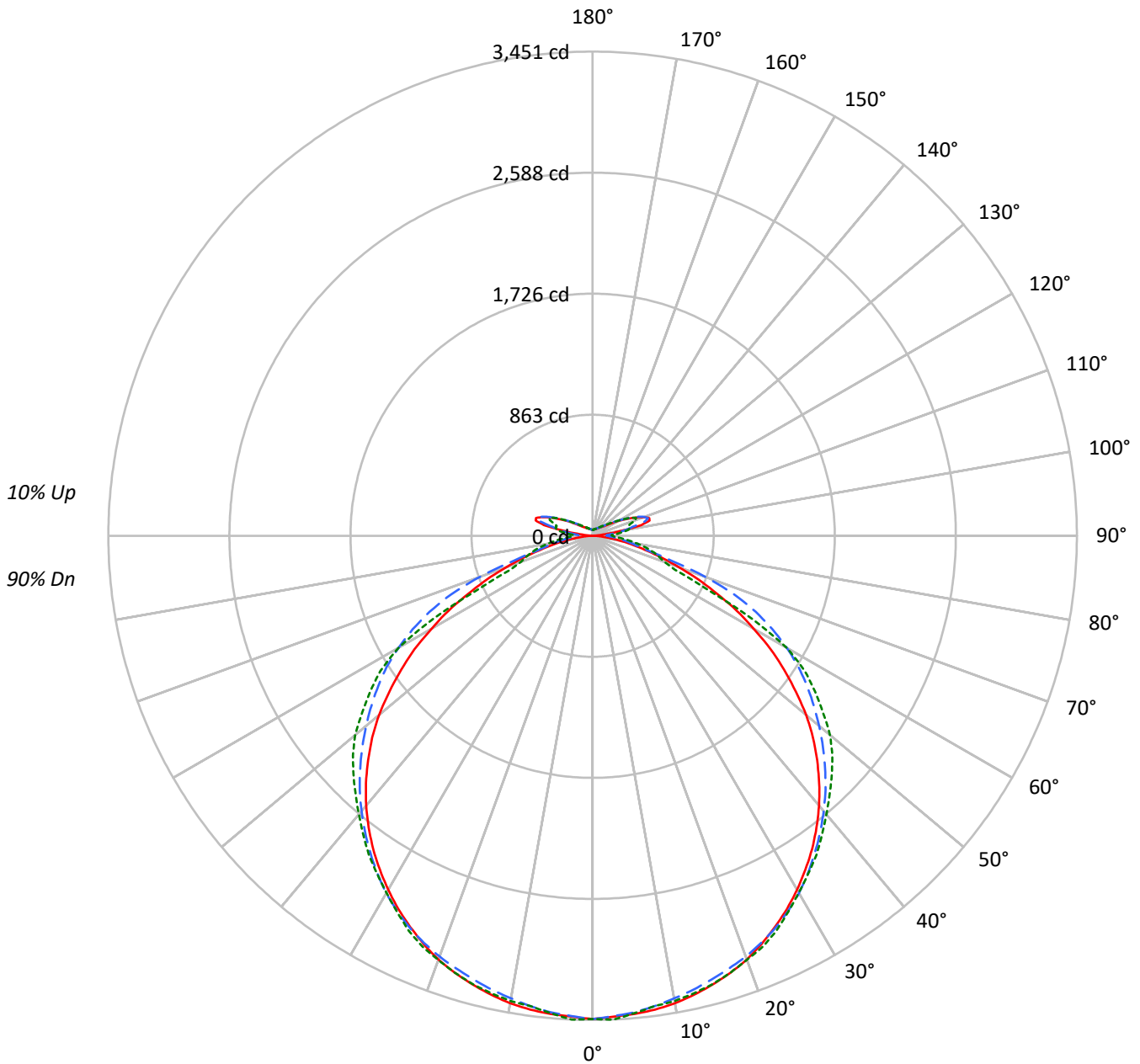
Lumens per Lamp: N/A
Luminaire Lumens: 10742.2 lumens
Efficiency: N/A
Efficacy: 137.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 0.88' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 78.4
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: P827657

CATALOG NUMBER: OHBL-12SE-MCL-UNV-L930-CD-UPL12

Luminous Intensity Polar Plot





TEST NUMBER: P827657

CATALOG NUMBER: OHBL-12SE-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	113	113	113	113	105	105	105	99	99	99	93	93	93	90																			
1	107	102	98	94	103	99	95	92	93	90	87	87	85	83	82	80	78	76																			
2	97	89	83	77	94	87	81	76	81	76	72	77	73	69	72	69	66	63																			
3	89	79	71	64	85	76	69	63	72	66	61	68	63	58	64	60	56	54																			
4	81	70	61	55	78	68	60	54	64	57	52	60	55	50	57	52	48	46																			
5	75	62	53	47	72	60	52	46	57	50	45	54	48	43	51	46	42	40																			
6	69	56	47	41	66	54	46	40	52	44	39	49	43	38	46	41	37	35																			
7	64	51	42	36	61	49	41	36	47	40	35	45	38	34	42	37	33	31																			
8	59	46	38	32	57	45	37	32	43	36	31	41	35	30	39	33	29	27																			
9	55	42	34	29	53	41	34	28	39	32	28	38	31	27	36	30	26	24																			
10	52	39	31	26	50	38	31	26	36	30	25	35	29	25	33	28	24	22																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11206	11206	11206
5°	10992	10977	11113
10°	10815	10747	11036
15°	10610	10560	11010
20°	10405	10419	10961
25°	10141	10275	10915
30°	9862	10086	10763
35°	9553	9823	10706
40°	9191	9551	10614
45°	8744	9243	10618
50°	8193	8898	10619
55°	7423	8548	10322
60°	6484	8073	9659
65°	5341	7285	6217
70°	4073	5551	4606
75°	2825	3186	4828
80°	1735	2514	4867
85°	778	2100	5118



TEST NUMBER: P827657

CATALOG NUMBER: OHBL-12SE-MCL-UNV-L930-CD-UPL12

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	324.8	3.0
10°-20°	931.3	8.7
20°-30°	1422.4	13.2
30°-40°	1725.9	16.1
40°-50°	1808.9	16.8
50°-60°	1639.1	15.3
60°-70°	1099.0	10.2
70°-80°	493.5	4.6
80°-90°	181.6	1.7
90°-100°	150.1	1.4
100°-110°	360.0	3.4
110°-120°	300.1	2.8
120°-130°	144.8	1.3
130°-140°	73.7	0.7
140°-150°	43.3	0.4
150°-160°	25.8	0.2
160°-170°	13.7	0.1
170°-180°	4.2	0.0
0°-30°	2678.5	24.9
0°-40°	4404.4	41.0
0°-60°	7852.4	73.1
0°-90°	9626.4	89.6
90°-120°	810.2	7.5
90°-150°	1072.1	10.0
90°-180°	1116.0	10.4
0°-180°	10742.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3444	3444	3444	3444	3444	
5°	3422	3434	3410	3420	3416	325
15°	3311	3298	3275	3304	3308	935
25°	3076	3062	3084	3112	3103	1418
35°	2726	2733	2761	2790	2779	1704
45°	2263	2300	2342	2402	2410	1743
55°	1665	1745	1864	1939	1934	1486
65°	977	1130	1283	1083	884	974
75°	384	558	410	420	447	420
85°	66	127	163	197	206	81
90°	3	57	104	131	139	6
95°	21	73	127	164	180	67
105°	420	424	381	284	266	398
115°	295	297	306	308	304	295
125°	146	152	160	160	161	136
135°	87	90	94	97	97	69
145°	65	67	68	69	71	41
155°	54	55	56	56	56	25
165°	48	48	48	48	48	13
175°	44	44	43	42	42	4
180°	42	42	42	42	42	



TEST NUMBER: P827657

CATALOG NUMBER: OHBL-12SE-MCL-UNV-L930-CD-UPL12

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3444.5	3444.5	3444.5	3444.5	3444.5
2.5°	3430.5	3445.0	3427.0	3446.4	3451.4
5°	3422.1	3434.0	3410.1	3420.5	3416.1
7.5°	3406.6	3410.6	3382.2	3390.6	3381.7
10°	3383.7	3381.7	3348.4	3364.8	3366.8
12.5°	3349.8	3343.8	3314.0	3338.9	3339.4
15°	3311.0	3298.0	3274.6	3303.5	3307.5
17.5°	3266.2	3249.3	3233.8	3271.2	3265.2
20°	3213.9	3194.0	3191.0	3231.8	3216.8
22.5°	3149.1	3133.7	3140.6	3179.5	3170.0
25°	3075.9	3062.5	3083.9	3112.2	3103.3
27.5°	2998.7	2990.8	3015.2	3037.1	3019.6
30°	2914.0	2909.6	2941.9	2959.9	2938.0
32.5°	2821.9	2823.4	2854.3	2878.7	2858.3
35°	2726.3	2732.7	2760.6	2790.0	2779.0
37.5°	2621.2	2635.7	2663.5	2696.9	2685.4
40°	2510.1	2531.1	2561.9	2602.3	2591.8
42.5°	2390.1	2416.5	2456.4	2501.1	2500.2
45°	2262.6	2299.5	2342.3	2402.0	2409.6
47.5°	2130.1	2171.4	2225.7	2305.4	2316.9
50°	1986.2	2038.0	2105.7	2201.3	2208.3
52.5°	1825.8	1896.5	1986.2	2077.8	2069.3
55°	1664.9	1745.1	1864.2	1938.9	1934.4
57.5°	1504.6	1594.8	1739.1	1792.5	1791.9
60°	1325.3	1439.3	1597.2	1637.5	1597.8
62.5°	1159.5	1281.9	1445.8	1416.4	1280.0
65°	977.2	1130.0	1283.0	1082.8	884.0
67.5°	815.3	974.7	1089.7	741.6	635.0
70°	652.4	828.2	849.6	550.3	542.9
72.5°	508.0	695.2	586.2	471.2	495.0
75°	384.5	557.8	410.4	419.8	447.3
77.5°	280.4	428.3	319.2	368.0	390.4
80°	192.7	303.3	260.4	309.3	324.7
82.5°	121.0	200.2	208.7	249.0	265.0
85°	66.2	127.0	162.9	196.7	206.2
87.5°	27.4	76.7	124.5	151.9	159.9
90°	2.9	56.9	103.5	130.6	138.9
92.5°	7.8	50.9	99.4	128.8	136.4
95°	20.7	73.3	127.3	164.0	180.5
97.5°	110.1	139.8	182.5	216.7	226.8
100°	224.6	257.5	240.0	257.4	262.9
102.5°	356.9	364.0	289.3	272.0	269.5
105°	419.9	424.5	380.8	284.1	265.5



TEST NUMBER: P827657

CATALOG NUMBER: OHBL-12SE-MCL-UNV-L930-CD-UPL12

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	341.4	347.3	354.8	346.4	333.6
115°	295.0	297.0	306.3	307.8	303.9
117.5°	248.1	252.4	262.2	262.8	262.1
120°	208.5	213.8	222.0	221.2	221.7
122.5°	176.1	180.2	188.1	188.2	189.5
125°	145.7	151.9	160.1	160.0	161.3
127.5°	122.8	127.6	137.3	138.0	138.5
130°	107.4	111.1	117.7	120.5	120.5
132.5°	96.6	99.6	104.3	107.1	107.9
135°	86.9	89.9	93.6	96.9	97.4
137.5°	81.0	82.6	85.0	88.3	89.6
140°	74.5	77.0	78.0	80.8	81.3
142.5°	69.1	71.3	72.3	74.7	76.0
145°	65.1	67.3	68.1	69.4	70.6
147.5°	61.6	63.2	64.8	64.8	66.1
150°	59.2	60.0	60.8	61.6	61.6
152.5°	55.9	56.7	57.6	58.4	58.4
155°	53.5	54.8	55.6	56.4	55.9
157.5°	51.1	53.2	53.2	54.0	54.0
160°	49.5	50.8	51.6	51.6	51.6
162.5°	48.3	49.1	49.1	50.0	50.0
165°	47.5	47.5	48.3	48.3	48.3
167.5°	45.9	46.4	46.7	46.7	46.7
170°	45.1	45.1	45.1	45.4	45.4
172.5°	44.3	44.3	44.3	43.8	43.8
175°	43.5	43.5	43.0	42.4	42.4
177.5°	43.2	43.5	43.0	42.4	42.0
180°	42.2	42.2	42.2	42.2	42.2



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	422.8	431.4	413.2	330.9	280.2
110°	387.8	398.4	393.1	364.4	324.1



(END OF REPORT)