

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: P827660

Luminaire Tested: **OHBL-12SE-MFL-UNV-L930-CD-UPL18**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P827660
REPORT IS A COMBINATION OF REPORTS P826151 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-MFL-UNV-L930-CD-UPL18
Description:
Light Source: -
Ballast/Driver: -

Summary

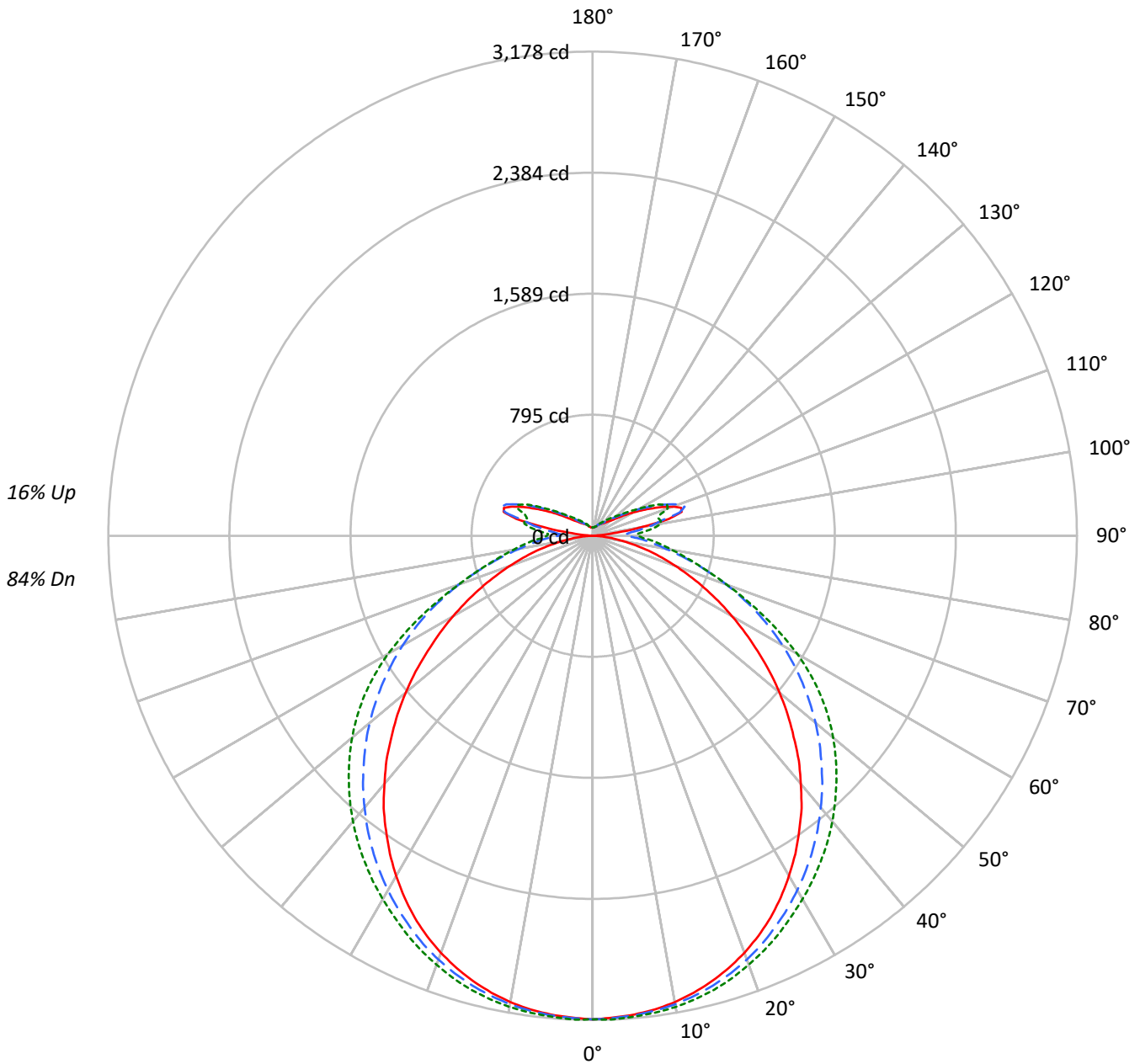
Lumens per Lamp: N/A
Luminaire Lumens: 10948.0 lumens
Efficiency: N/A
Efficacy: 133.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 0.88' x H: 0.17')
CIE Type: Semi-Direct

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: P827660

CATALOG NUMBER: OHBL-12SE-MFL-UNV-L930-CD-UPL18

Luminous Intensity Polar Plot





TEST NUMBER: P827660

CATALOG NUMBER: OHBL-12SE-MFL-UNV-L930-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	115	115	115	115	111	111	111	111	102	102	102	94	94	94	87	87	87	84	84	84	84
1	105	100	95	91	100	96	92	88	89	86	83	82	80	77	76	74	72	69	69	69	69
2	95	87	80	74	91	83	77	72	77	72	68	72	68	64	67	63	60	57	57	57	57
3	87	76	68	62	83	73	66	60	68	62	57	63	58	54	59	55	51	48	48	48	48
4	79	67	59	52	76	65	57	51	60	54	48	56	51	46	52	48	44	41	41	41	41
5	73	60	51	45	70	58	50	44	54	47	42	50	45	40	47	42	38	36	36	36	36
6	67	54	45	39	64	52	44	38	49	42	36	46	40	35	43	37	33	31	31	31	31
7	62	49	40	34	59	47	39	34	44	37	32	42	35	31	39	34	30	27	27	27	27
8	58	45	36	30	55	43	35	30	41	34	29	38	32	28	36	30	27	24	24	24	24
9	54	41	33	27	52	40	32	27	37	31	26	35	29	25	33	28	24	22	22	22	22
10	51	38	30	25	48	36	29	24	34	28	23	32	27	23	31	25	22	20	20	20	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10328	10328	10328
5°	10133	10169	10305
10°	9936	10020	10295
15°	9700	9854	10268
20°	9431	9665	10208
25°	9114	9444	10150
30°	8725	9208	10093
35°	8282	8960	10055
40°	7778	8681	10023
45°	7209	8379	9974
50°	6602	8070	9908
55°	5893	7703	9755
60°	5174	7277	9370
65°	4408	6750	8677
70°	3600	6097	7937
75°	2791	5344	7548
80°	1868	4695	7906
85°	930	4447	9911



TEST NUMBER: P827660

CATALOG NUMBER: OHBL-12SE-MFL-UNV-L930-CD-UPL18

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	300.8	2.7
10°-20°	863.0	7.9
20°-30°	1305.1	11.9
30°-40°	1566.8	14.3
40°-50°	1618.3	14.8
50°-60°	1455.9	13.3
60°-70°	1096.7	10.0
70°-80°	662.2	6.0
80°-90°	327.5	3.0
90°-100°	274.7	2.5
100°-110°	558.5	5.1
110°-120°	458.7	4.2
120°-130°	224.2	2.0
130°-140°	112.7	1.0
140°-150°	64.1	0.6
150°-160°	36.0	0.3
160°-170°	17.4	0.2
170°-180°	5.3	0.0
0°-30°	2468.9	22.6
0°-40°	4035.7	36.9
0°-60°	7109.9	64.9
0°-90°	9196.4	84.0
90°-120°	1291.9	11.8
90°-150°	1692.8	15.5
90°-180°	1752.0	16.0
0°-180°	10948.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3175	3175	3175	3175	3175	
5°	3154	3163	3159	3172	3168	300
15°	3027	3042	3056	3081	3084	853
25°	2764	2795	2834	2879	2886	1272
35°	2364	2419	2518	2594	2610	1478
45°	1866	1960	2123	2239	2263	1440
55°	1322	1458	1680	1806	1828	1185
65°	806	971	1189	1248	1234	801
75°	380	545	688	706	699	405
85°	79	209	345	392	399	92
90°	3	102	225	285	299	7
95°	35	121	252	323	349	100
105°	604	625	592	468	446	574
115°	421	437	472	485	487	425
125°	208	220	249	262	263	196
135°	125	129	142	156	160	99
145°	95	96	99	106	108	60
155°	77	80	80	80	80	35
165°	60	61	61	61	61	17
175°	54	54	55	55	55	5
180°	54	54	54	54	54	



TEST NUMBER: P827660

CATALOG NUMBER: OHBL-12SE-MFL-UNV-L930-CD-UPL18

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3174.6	3174.6	3174.6	3174.6	3174.6
2.5°	3165.4	3173.1	3168.4	3178.5	3177.7
5°	3154.4	3163.0	3159.1	3171.5	3167.6
7.5°	3135.8	3145.1	3144.3	3158.3	3156.8
10°	3108.6	3118.7	3121.8	3140.5	3140.5
12.5°	3071.3	3084.5	3092.3	3114.8	3115.6
15°	3027.0	3041.8	3055.7	3081.4	3084.5
17.5°	2973.4	2992.0	3011.4	3041.0	3044.9
20°	2912.8	2933.8	2960.2	2991.2	2995.9
22.5°	2842.9	2867.7	2901.9	2938.5	2943.9
25°	2764.4	2794.7	2834.3	2878.6	2885.6
27.5°	2675.0	2710.0	2763.6	2813.3	2819.5
30°	2577.9	2619.1	2685.9	2745.0	2755.0
32.5°	2475.4	2522.8	2605.1	2671.1	2685.1
35°	2363.5	2418.7	2518.1	2594.3	2609.8
37.5°	2253.1	2313.8	2426.5	2513.4	2532.1
40°	2124.2	2199.6	2328.6	2424.8	2447.4
42.5°	2003.0	2084.5	2230.7	2335.5	2357.3
45°	1865.5	1959.5	2123.4	2239.2	2263.3
47.5°	1736.5	1838.3	2020.1	2139.7	2164.6
50°	1600.5	1712.4	1909.8	2034.8	2060.5
52.5°	1464.5	1585.0	1795.6	1925.3	1949.4
55°	1321.6	1458.3	1679.8	1806.4	1828.2
57.5°	1188.7	1333.3	1560.9	1681.3	1694.5
60°	1057.5	1207.4	1439.7	1545.4	1550.1
62.5°	929.3	1087.0	1315.4	1399.3	1393.1
65°	806.5	971.2	1188.7	1247.8	1233.8
67.5°	688.4	858.5	1059.0	1097.1	1078.4
70°	576.5	749.0	933.1	952.5	935.5
72.5°	477.8	644.9	805.7	822.0	809.6
75°	379.9	545.4	688.4	706.2	699.3
77.5°	288.3	449.1	580.4	603.7	605.3
80°	207.4	361.2	486.4	522.9	527.5
82.5°	136.8	280.5	407.9	454.5	461.5
85°	79.2	209.0	345.0	392.4	399.3
87.5°	34.2	150.8	277.3	320.1	328.7
90°	3.2	101.8	224.8	285.0	299.2
92.5°	12.9	94.3	213.8	277.4	292.5
95°	34.6	121.4	251.9	323.0	349.4
97.5°	162.3	218.8	320.6	391.9	411.8
100°	329.6	381.5	397.2	443.6	454.7
102.5°	513.1	543.4	464.1	457.3	457.8
105°	604.4	625.2	591.5	468.3	445.6



TEST NUMBER: P827660

CATALOG NUMBER: OHBL-12SE-MFL-UNV-L930-CD-UPL18

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	492.8	510.9	539.2	546.4	529.4
115°	420.9	437.4	471.6	484.6	486.9
117.5°	360.3	371.2	403.9	419.4	422.5
120°	302.1	313.9	345.1	358.3	359.7
122.5°	253.6	264.7	294.4	306.7	307.4
125°	208.3	220.4	249.3	262.5	263.2
127.5°	176.8	185.7	213.1	226.3	227.0
130°	154.1	160.6	182.5	196.6	199.7
132.5°	138.8	142.8	160.0	173.3	178.1
135°	125.0	129.1	142.4	155.7	159.6
137.5°	114.5	118.6	128.0	140.5	144.4
140°	106.5	109.7	116.0	126.9	130.8
142.5°	100.0	102.4	106.4	115.7	118.8
145°	95.1	95.9	99.1	106.1	108.5
147.5°	89.4	91.0	92.6	97.4	99.7
150°	84.6	87.0	87.8	89.4	92.6
152.5°	81.3	82.9	83.7	83.8	85.4
155°	77.3	79.7	79.7	79.8	80.5
157.5°	67.1	67.9	68.7	69.5	69.5
160°	64.7	64.7	65.5	66.3	66.3
162.5°	62.2	62.2	63.0	63.9	63.9
165°	59.8	60.6	60.6	61.4	61.4
167.5°	58.2	58.2	59.0	59.0	59.8
170°	56.6	56.6	57.4	57.4	57.4
172.5°	55.0	55.8	55.8	55.8	55.8
175°	54.2	54.2	55.0	55.0	55.0
177.5°	53.4	54.2	54.2	54.2	54.2
180°	54.2	54.2	54.2	54.2	54.2



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	610.0	632.6	633.1	532.7	466.2
110°	559.1	585.1	602.8	576.0	524.1



(END OF REPORT)