

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: P828347

Luminaire Tested: **OHBL-24SE-A-UNV-L940-CD-UPL36**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P828347
REPORT IS A COMBINATION OF REPORTS P826305 AND G3-2310-221-2
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-24SE-A-UNV-L940-CD-UPL36
Description:
Light Source: -
Ballast/Driver: -

Summary

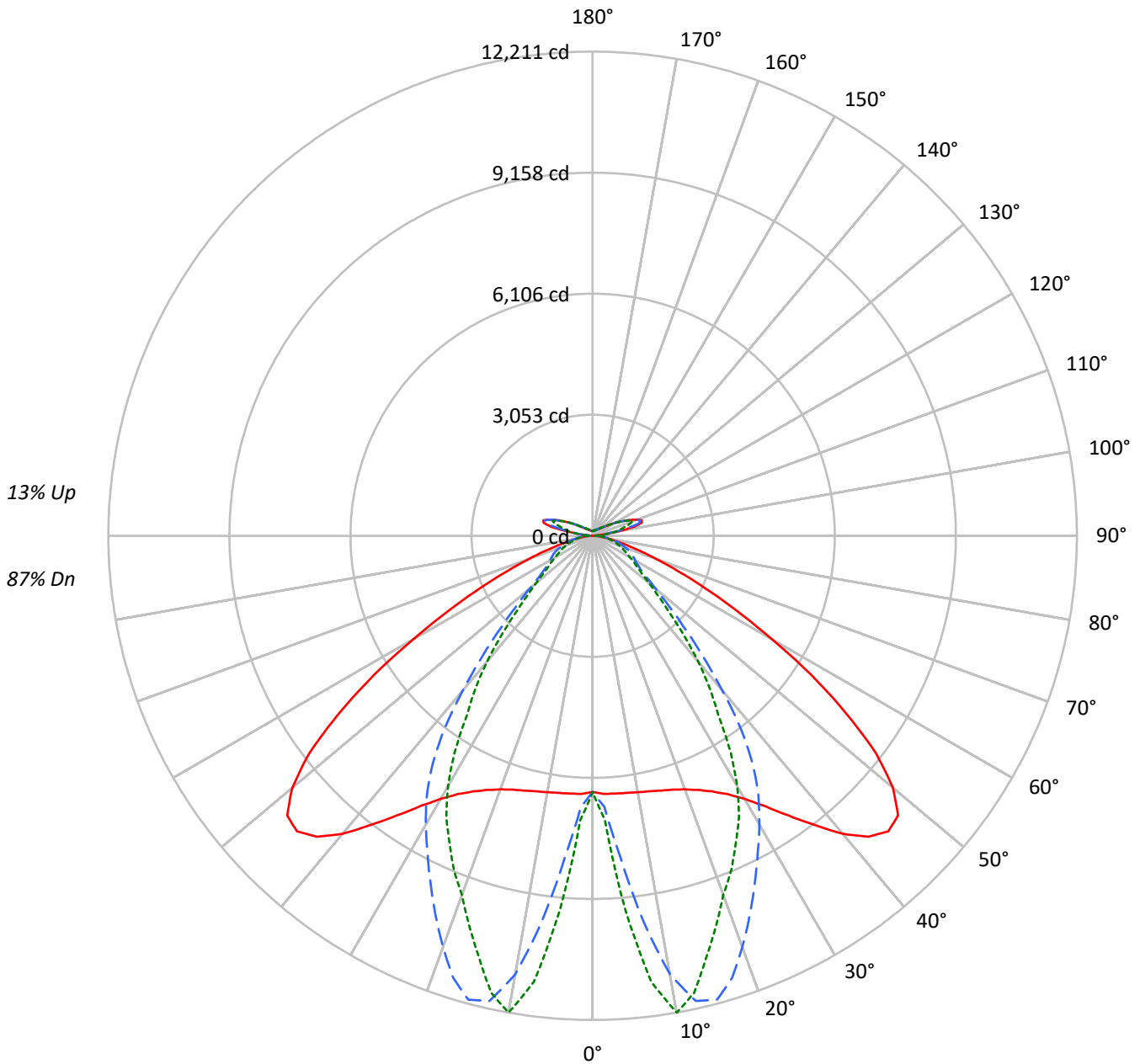
Lumens per Lamp: N/A
Luminaire Lumens: 23850.7 lumens
Efficiency: N/A
Efficacy: 143.0 lumens/watt
Spacing Criteria (0/90/45): 2.18 / 1.37 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 166.8
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: P828347

CATALOG NUMBER: OHBL-24SE-A-UNV-L940-CD-UPL36

Luminous Intensity Polar Plot





TEST NUMBER: P828347

CATALOG NUMBER: OHBL-24SE-A-UNV-L940-CD-UPL36

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	116	116	116	116	112	112	112	112	104	104	104	97	97	97	90	90	90	87			87
1	107	103	100	97	104	100	97	94	93	91	89	87	85	84	82	80	79	76			76
2	99	92	87	82	96	89	84	80	84	80	76	79	75	72	74	71	69	66			66
3	92	83	76	70	88	80	74	69	76	70	66	71	67	63	67	64	61	58			58
4	85	75	67	61	82	72	65	60	68	63	58	65	60	56	61	57	54	51			51
5	79	67	60	54	76	66	58	53	62	56	51	59	54	50	56	52	48	46			46
6	73	61	54	48	71	60	52	47	57	50	46	54	49	44	51	47	43	41			41
7	68	56	48	43	66	55	47	42	52	46	41	50	44	40	47	43	39	37			37
8	64	52	44	39	62	50	43	38	48	42	37	46	40	36	44	39	35	33			33
9	60	48	40	35	58	47	40	35	44	38	34	43	37	33	41	36	32	31			31
10	56	44	37	32	54	43	36	32	41	35	31	40	34	30	38	33	30	28			28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11037	11037	11037
5°	11093	13881	16179
10°	11192	19138	21015
15°	11459	20848	19288
20°	11932	19344	17238
25°	12803	17397	15767
30°	14276	15665	14020
35°	16783	13711	11173
40°	20180	10441	8891
45°	23148	7114	6328
50°	23467	4880	4681
55°	20313	3840	3824
60°	15173	3593	3440
65°	10400	3605	3259
70°	6650	3477	3156
75°	3999	3218	3020
80°	2353	2828	3115
85°	1133	2428	2889



TEST NUMBER: P828347

CATALOG NUMBER: OHBL-24SE-A-UNV-L940-CD-UPL36

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	843.6	3.5
10°-20°	2977.5	12.5
20°-30°	4387.6	18.4
30°-40°	4610.6	19.3
40°-50°	3528.0	14.8
50°-60°	2130.3	8.9
60°-70°	1300.0	5.5
70°-80°	709.5	3.0
80°-90°	255.7	1.1
90°-100°	239.2	1.0
100°-110°	1083.4	4.5
110°-120°	896.7	3.8
120°-130°	424.4	1.8
130°-140°	214.9	0.9
140°-150°	125.6	0.5
150°-160°	73.7	0.3
160°-170°	38.3	0.2
170°-180°	11.7	0.0
0°-30°	8208.7	34.4
0°-40°	12819.3	53.7
0°-60°	18477.6	77.5
0°-90°	20742.9	87.0
90°-120°	2219.3	9.3
90°-150°	2984.1	12.5
90°-180°	3108.0	13.0
0°-180°	23850.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6462	6462	6462	6462	6462	
5°	6527	7002	8169	9121	9473	624
15°	6654	10364	12112	11303	11037	1892
25°	7110	12028	9670	8755	8539	3323
35°	8613	9632	7045	5867	5524	5464
45°	10542	5496	3245	2856	2736	7965
55°	7796	1864	1477	1369	1365	6889
65°	3125	1180	1087	930	883	3202
75°	832	734	673	555	533	957
85°	124	228	268	244	222	153
90°	7	43	55	63	64	12
95°	54	108	144	183	196	201
105°	1284	1282	1205	896	810	1221
115°	896	883	890	896	888	905
125°	441	456	467	459	450	415
135°	261	267	274	276	277	206
145°	190	194	198	201	202	121
155°	153	156	158	160	160	72
165°	131	133	134	135	136	38
175°	120	120	121	121	122	12
180°	118	118	118	118	118	



TEST NUMBER: P828347

CATALOG NUMBER: OHBL-24SE-A-UNV-L940-CD-UPL36

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6462.0	6462.0	6462.0	6462.0	6462.0
2.5°	6514.9	6581.4	6843.6	7115.6	7181.9
5°	6526.8	7002.3	8168.6	9121.0	9472.9
7.5°	6540.7	7684.2	9810.5	10976.5	11349.7
10°	6567.0	8546.6	11233.0	12070.2	12211.3
12.5°	6599.7	9460.2	12015.9	11985.4	11807.5
15°	6654.0	10363.9	12112.3	11302.6	11036.9
17.5°	6711.1	11128.4	11691.7	10559.5	10328.0
20°	6803.9	11695.9	11037.4	9898.9	9635.9
22.5°	6937.7	12007.9	10351.3	9301.4	9129.9
25°	7110.4	12028.1	9670.0	8754.7	8538.6
27.5°	7341.8	11749.1	9016.8	8219.0	7990.7
30°	7656.6	11214.8	8410.0	7573.1	7289.9
32.5°	8084.1	10445.9	7784.3	6793.4	6475.8
35°	8612.8	9632.3	7044.8	5866.8	5523.8
37.5°	9189.8	8729.0	6147.2	5046.3	4846.5
40°	9810.5	7798.1	5083.4	4278.4	4135.4
42.5°	10294.8	6786.2	4095.3	3555.5	3403.4
45°	10541.8	5496.3	3245.1	2855.5	2735.5
47.5°	10445.6	4266.5	2572.6	2268.9	2232.9
50°	9884.5	3150.3	2059.4	1869.0	1854.1
52.5°	9007.2	2348.1	1701.2	1583.3	1557.6
55°	7796.0	1863.7	1477.2	1369.1	1365.0
57.5°	6545.4	1583.3	1340.9	1257.2	1228.1
60°	5211.4	1411.8	1237.6	1143.1	1084.0
62.5°	4085.0	1291.8	1161.6	1033.3	978.1
65°	3125.4	1179.9	1086.8	930.0	882.6
67.5°	2329.9	1073.2	995.3	821.4	793.6
70°	1697.5	963.8	891.2	730.4	708.5
72.5°	1209.8	854.6	786.9	645.1	621.0
75°	832.1	733.7	673.0	555.3	532.9
77.5°	561.4	610.4	560.9	474.1	464.7
80°	374.9	484.1	453.6	401.8	395.9
82.5°	227.5	351.3	358.0	326.7	310.9
85°	123.9	227.5	268.2	244.4	221.7
87.5°	48.5	126.1	184.8	166.0	156.3
90°	7.0	42.6	54.8	62.6	63.5
92.5°	21.7	52.2	66.9	83.5	88.7
95°	53.9	107.8	143.5	182.6	196.5
97.5°	325.2	349.5	303.4	362.6	383.4
100°	698.2	716.4	555.6	559.9	577.3
102.5°	1093.8	1108.5	876.4	725.1	699.0
105°	1284.2	1281.6	1205.0	896.4	809.5



TEST NUMBER: P828347

CATALOG NUMBER: OHBL-24SE-A-UNV-L940-CD-UPL36

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1052.0	1054.6	1045.1	1041.6	1013.8
115°	895.5	883.4	890.3	896.4	887.7
117.5°	766.0	757.3	764.2	760.8	751.2
120°	644.3	644.3	653.0	640.8	633.8
122.5°	533.8	546.0	552.1	543.4	532.1
125°	440.8	456.5	466.9	459.1	450.4
127.5°	378.2	383.4	395.6	391.2	391.2
130°	325.2	332.1	341.7	343.4	341.7
132.5°	288.7	295.6	304.3	306.9	309.5
135°	260.8	266.9	273.9	276.5	277.4
137.5°	238.2	243.4	248.7	253.0	253.9
140°	219.1	224.3	229.5	233.0	233.0
142.5°	203.5	208.7	213.0	215.6	215.6
145°	189.5	193.9	198.2	200.8	201.7
147.5°	179.1	182.6	186.9	187.8	188.7
150°	169.5	172.2	175.6	177.4	178.2
152.5°	160.8	163.5	166.9	167.8	168.7
155°	153.0	155.6	158.2	160.0	160.0
157.5°	146.1	148.7	151.3	152.2	152.2
160°	140.8	142.6	145.2	145.2	146.1
162.5°	135.6	137.4	139.1	140.0	140.8
165°	131.3	133.0	133.9	134.8	135.6
167.5°	127.8	128.7	129.5	130.4	130.4
170°	124.3	125.2	126.1	126.1	126.9
172.5°	121.7	122.6	123.5	123.5	123.5
175°	120.0	120.0	120.9	120.9	121.7
177.5°	118.2	119.1	119.1	119.1	120.0
180°	118.2	118.2	118.2	118.2	118.2



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	1296.3	1299.0	1267.6	1116.4	965.1
110°	1196.4	1207.7	1187.7	1138.1	1069.4



(END OF REPORT)