

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: P828284

Luminaire Tested: **OHBL-15SE-MFL-UNV-L940-CD-UPL24**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P828284
REPORT IS A COMBINATION OF REPORTS P826223 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-15SE-MFL-UNV-L940-CD-UPL24
Description:
Light Source: -
Ballast/Driver: -

Summary

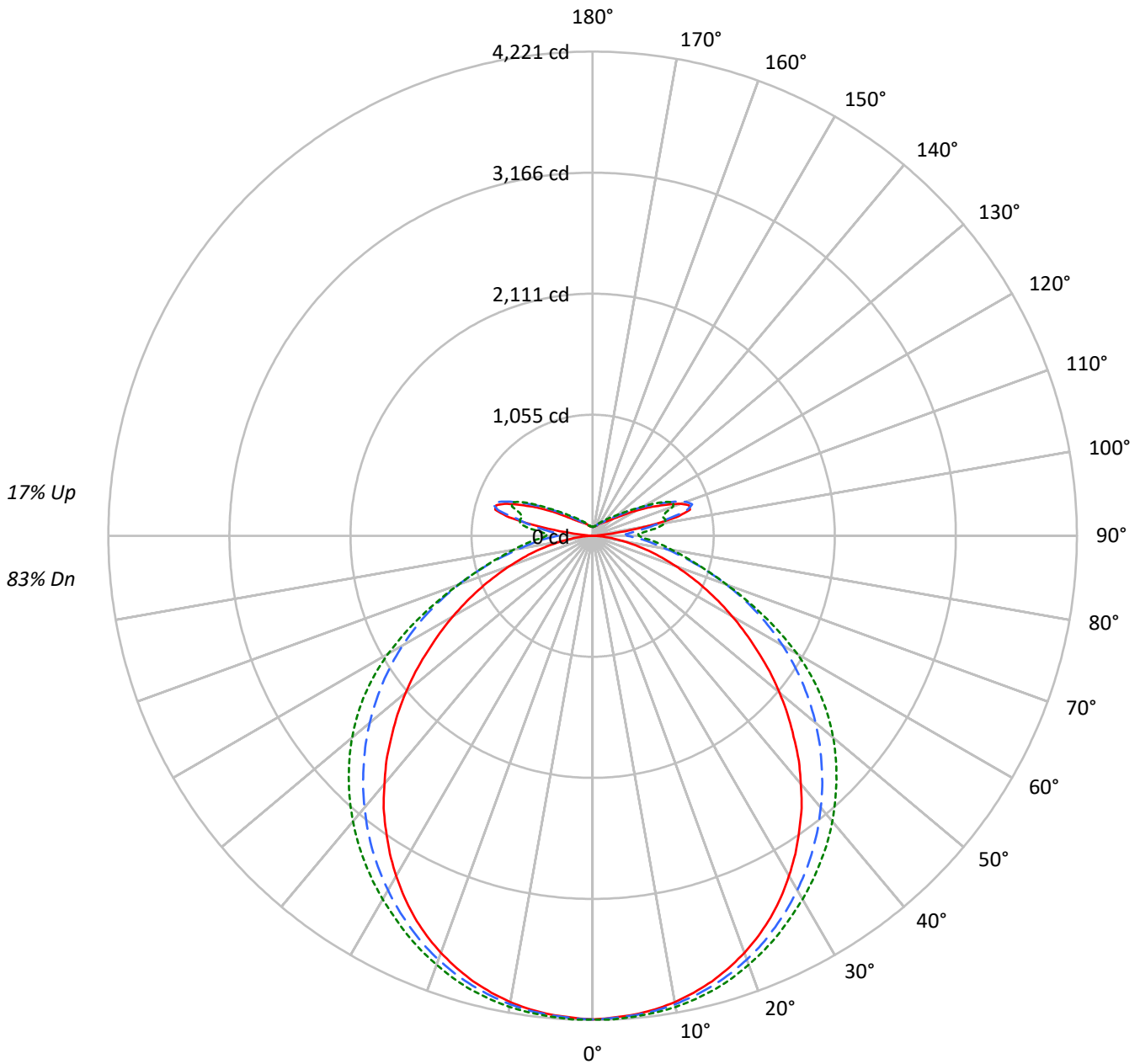
Lumens per Lamp: N/A
Luminaire Lumens: 14724.3 lumens
Efficiency: N/A
Efficacy: 141.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 0.88' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 104.4
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

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Luminous Intensity Polar Plot





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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	115	115	115	115	110	110	110	110	102	102	102	94	94	94	86	86	86	86	86	86	83
1	104	100	95	91	100	96	92	88	88	85	82	81	79	77	75	73	72	72	72	72	68
2	95	87	80	74	91	83	77	72	77	72	68	71	67	64	66	63	60	60	60	60	57
3	86	76	68	61	82	73	66	60	68	62	57	63	58	53	58	54	50	50	50	50	48
4	79	67	59	52	75	65	57	51	60	53	48	56	50	46	52	47	43	43	43	43	41
5	73	60	51	45	69	58	50	44	54	47	42	50	44	40	47	42	38	38	38	38	35
6	67	54	45	39	64	52	44	38	49	41	36	45	39	35	42	37	33	33	33	33	31
7	62	49	40	34	59	47	39	33	44	37	32	41	35	31	38	33	29	29	29	29	27
8	58	44	36	30	55	43	35	30	40	33	29	38	32	27	35	30	26	26	26	26	24
9	54	41	33	27	52	39	32	27	37	30	26	35	29	25	33	27	24	24	24	24	22
10	50	37	30	25	48	36	29	24	34	28	23	32	26	22	30	25	21	21	21	21	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13718	13718	13718
5°	13459	13507	13688
10°	13197	13309	13674
15°	12884	13089	13638
20°	12526	12838	13560
25°	12105	12544	13482
30°	11588	12231	13406
35°	11000	11901	13355
40°	10331	11530	13313
45°	9576	11130	13247
50°	8769	10720	13160
55°	7827	10231	12957
60°	6872	9666	12446
65°	5854	8966	11526
70°	4781	8098	10542
75°	3707	7098	10025
80°	2481	6236	10502
85°	1237	5906	13165



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	399.6	2.7
10°-20°	1146.3	7.8
20°-30°	1733.5	11.8
30°-40°	2081.1	14.1
40°-50°	2149.5	14.6
50°-60°	1933.9	13.1
60°-70°	1456.7	9.9
70°-80°	879.6	6.0
80°-90°	435.6	3.0
90°-100°	382.6	2.6
100°-110°	803.2	5.5
110°-120°	661.0	4.5
120°-130°	322.3	2.2
130°-140°	162.2	1.1
140°-150°	92.3	0.6
150°-160°	52.0	0.4
160°-170°	25.2	0.2
170°-180°	7.7	0.1
0°-30°	3279.4	22.3
0°-40°	5360.5	36.4
0°-60°	9443.9	64.1
0°-90°	12215.8	83.0
90°-120°	1846.8	12.5
90°-150°	2423.6	16.5
90°-180°	2508.0	17.0
0°-180°	14724.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4217	4217	4217	4217	4217	
5°	4190	4201	4196	4213	4207	398
15°	4021	4040	4059	4093	4097	1134
25°	3672	3712	3765	3824	3833	1689
35°	3139	3213	3345	3446	3466	1963
45°	2478	2603	2820	2974	3006	1913
55°	1755	1937	2231	2399	2428	1574
65°	1071	1290	1579	1657	1639	1064
75°	505	724	914	938	929	538
85°	105	278	458	521	530	122
90°	4	138	303	384	404	10
95°	51	170	346	448	483	148
105°	879	905	847	671	635	835
115°	610	632	678	700	699	615
125°	302	321	358	376	376	283
135°	181	187	205	222	228	143
145°	136	139	142	152	156	86
155°	111	114	115	114	116	50
165°	87	88	89	89	89	25
175°	78	79	79	80	80	8
180°	78	78	78	78	78	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4216.7	4216.7	4216.7	4216.7	4216.7
2.5°	4204.4	4214.6	4208.5	4221.9	4220.9
5°	4189.9	4201.2	4196.1	4212.6	4207.4
7.5°	4165.2	4177.5	4176.5	4195.1	4193.0
10°	4129.0	4142.5	4146.6	4171.3	4171.3
12.5°	4079.5	4097.0	4107.3	4137.3	4138.3
15°	4020.7	4040.3	4058.8	4092.9	4097.0
17.5°	3949.5	3974.2	4000.1	4039.3	4044.4
20°	3868.9	3896.8	3931.9	3973.2	3979.4
22.5°	3776.1	3809.1	3854.5	3903.0	3910.2
25°	3671.8	3712.1	3764.7	3823.6	3832.9
27.5°	3553.2	3599.6	3670.8	3736.9	3745.1
30°	3424.1	3478.8	3567.6	3646.0	3659.5
32.5°	3288.0	3350.9	3460.3	3548.0	3566.5
35°	3139.3	3212.6	3344.7	3445.9	3466.5
37.5°	2992.8	3073.3	3222.9	3338.5	3363.3
40°	2821.5	2921.6	3092.9	3220.9	3250.8
42.5°	2660.5	2768.8	2962.9	3102.2	3131.0
45°	2477.8	2602.7	2820.5	2974.2	3006.2
47.5°	2306.5	2441.7	2683.2	2842.1	2875.2
50°	2125.9	2274.6	2536.7	2702.8	2736.8
52.5°	1945.3	2105.3	2385.0	2557.3	2589.3
55°	1755.4	1937.0	2231.2	2399.4	2428.3
57.5°	1579.0	1770.9	2073.3	2233.3	2250.8
60°	1404.6	1603.7	1912.3	2052.7	2058.8
62.5°	1234.3	1443.8	1747.1	1858.6	1850.4
65°	1071.2	1290.0	1579.0	1657.4	1638.8
67.5°	914.3	1140.4	1406.6	1457.2	1432.4
70°	765.7	994.8	1239.4	1265.2	1242.5
72.5°	634.7	856.6	1070.2	1091.8	1075.3
75°	504.6	724.4	914.3	938.0	928.8
77.5°	382.9	596.5	770.9	801.9	803.9
80°	275.5	479.8	646.0	694.5	700.7
82.5°	181.6	372.6	541.8	603.7	613.0
85°	105.3	277.6	458.2	521.1	530.4
87.5°	45.4	200.2	368.4	425.2	436.5
90°	4.3	137.9	303.0	384.1	403.7
92.5°	17.9	128.9	287.6	375.6	398.2
95°	51.2	169.8	345.6	447.9	483.3
97.5°	240.1	314.9	442.4	547.2	585.2
100°	486.1	563.1	558.8	625.7	641.7
102.5°	747.8	784.8	666.3	648.9	649.1
105°	879.3	904.8	847.4	671.1	634.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	710.8	740.8	777.5	784.3	760.6
115°	609.9	631.5	677.9	699.9	698.9
117.5°	524.0	536.2	581.0	602.8	606.8
120°	435.3	453.2	498.1	514.4	513.3
122.5°	366.6	382.2	421.5	439.3	437.2
125°	302.1	320.9	358.0	375.6	376.1
127.5°	255.9	269.3	304.7	324.2	326.5
130°	223.7	231.7	263.1	281.5	285.4
132.5°	199.4	207.5	230.1	250.1	253.4
135°	181.1	186.7	205.1	222.3	228.2
137.5°	166.3	171.0	184.5	201.5	205.6
140°	154.3	158.8	168.3	182.5	187.5
142.5°	144.1	147.5	153.1	166.2	169.3
145°	136.4	138.9	142.5	151.6	155.5
147.5°	128.6	132.1	133.8	139.6	142.8
150°	122.5	125.3	126.9	128.8	132.7
152.5°	116.4	119.2	120.8	120.6	122.7
155°	111.2	114.0	114.7	114.5	115.5
157.5°	96.5	98.2	100.0	100.9	100.9
160°	93.0	93.9	95.6	96.5	96.5
162.5°	89.6	90.4	91.3	92.2	92.2
165°	86.9	87.8	88.7	88.7	88.7
167.5°	84.3	84.3	85.2	86.1	86.1
170°	81.7	82.6	82.6	83.5	83.5
172.5°	80.0	80.9	80.9	80.9	81.7
175°	78.2	79.1	79.1	80.0	80.0
177.5°	78.2	78.2	78.2	78.2	78.2
180°	78.2	78.2	78.2	78.2	78.2



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	882.7	916.1	911.3	765.9	665.0
110°	814.9	848.6	865.2	827.1	747.0



(END OF REPORT)