

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: P826481

Luminaire Tested: **OHBL-15SE-MCL-UNV-L830-CD-UPL15**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P826481
REPORT IS A COMBINATION OF REPORTS P826114 AND G3-2310-221-10
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-15SE-MCL-UNV-L830-CD-UPL15
Description:
Light Source: -
Ballast/Driver: -

Summary

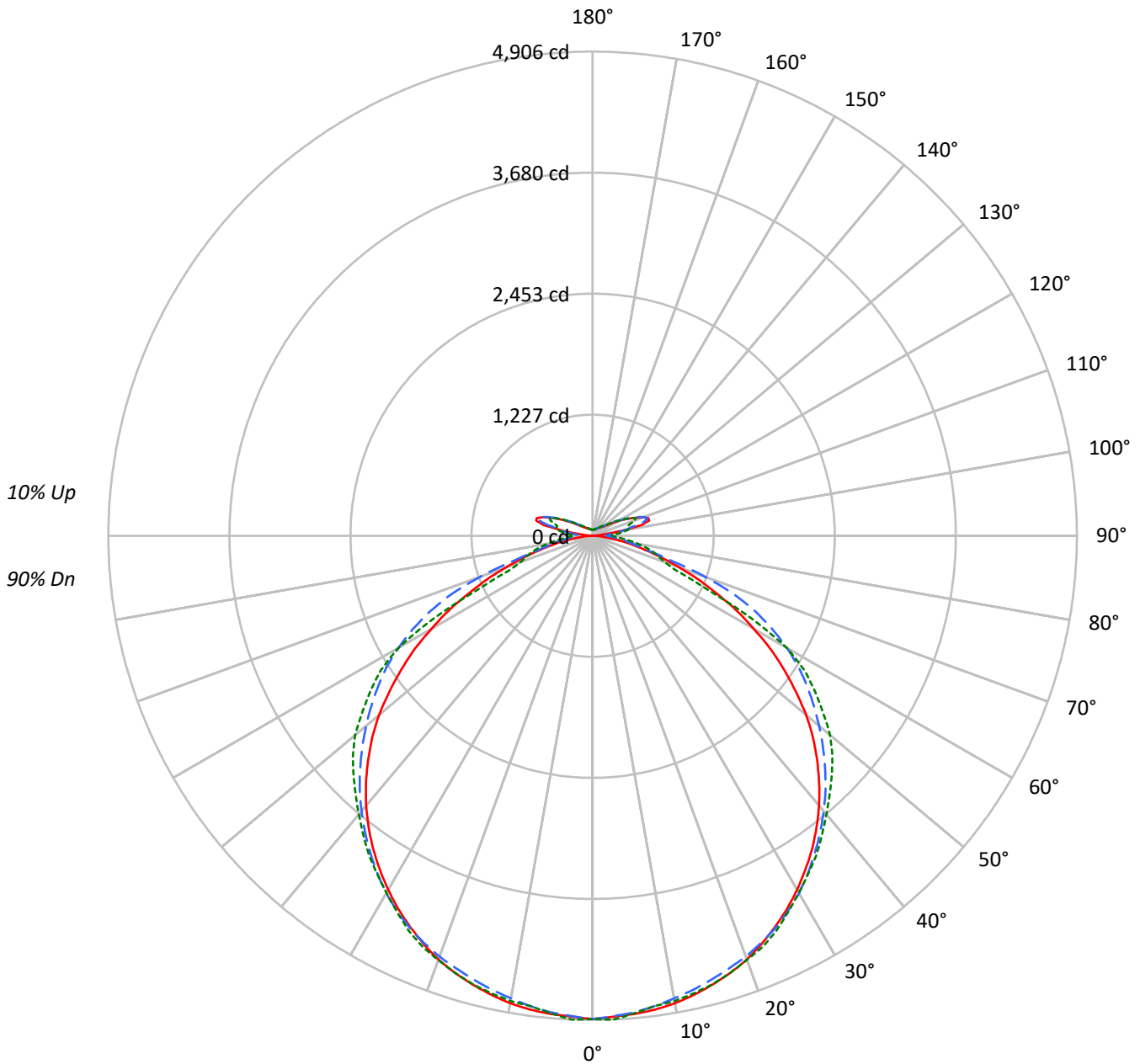
Lumens per Lamp: N/A
Luminaire Lumens: 15253.8 lumens
Efficiency: N/A
Efficacy: 156.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 0.88' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 97.3
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

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Luminous Intensity Polar Plot





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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	117	117	117	117	113	113	113	113	105	105	105	99	99	99	93	93	93	93	93	93	90
1	107	102	98	94	103	99	95	92	93	90	87	87	85	83	82	80	78	78	78	78	76
2	97	89	83	77	94	87	81	76	81	77	72	77	73	69	72	69	66	66	66	66	63
3	89	79	71	64	85	76	69	63	72	66	61	68	63	58	64	60	56	56	56	56	54
4	81	70	61	55	78	68	60	54	64	57	52	60	55	50	57	52	48	48	48	48	46
5	75	62	53	47	72	60	52	46	57	50	45	54	48	43	51	46	42	42	42	42	40
6	69	56	47	41	66	54	46	40	52	44	39	49	43	38	46	41	37	37	37	37	35
7	64	51	42	36	62	49	41	36	47	40	35	45	38	34	42	37	33	33	33	33	31
8	59	46	38	32	57	45	37	32	43	36	31	41	35	30	39	33	29	29	29	29	27
9	55	42	34	29	53	41	34	28	39	33	28	38	31	27	36	30	26	26	26	26	24
10	52	39	31	26	50	38	31	26	36	30	25	35	29	25	33	28	24	24	24	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15931	15931	15931
5°	15627	15605	15799
10°	15374	15278	15689
15°	15083	15012	15652
20°	14792	14811	15583
25°	14416	14607	15517
30°	14020	14338	15300
35°	13581	13964	15221
40°	13066	13577	15090
45°	12431	13140	15094
50°	11647	12650	15096
55°	10554	12152	14674
60°	9217	11476	13730
65°	7592	10356	8838
70°	5791	7892	6547
75°	4016	4529	6863
80°	2467	3575	6918
85°	1107	2984	7275



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	461.7	3.0
10°-20°	1324.0	8.7
20°-30°	2022.1	13.3
30°-40°	2453.5	16.1
40°-50°	2571.5	16.9
50°-60°	2330.2	15.3
60°-70°	1562.3	10.2
70°-80°	701.5	4.6
80°-90°	258.2	1.7
90°-100°	212.2	1.4
100°-110°	505.7	3.3
110°-120°	421.6	2.8
120°-130°	203.6	1.3
130°-140°	103.7	0.7
140°-150°	60.8	0.4
150°-160°	36.2	0.2
160°-170°	19.2	0.1
170°-180°	5.9	0.0
0°-30°	3807.8	25.0
0°-40°	6261.3	41.0
0°-60°	11163.0	73.2
0°-90°	13685.0	89.7
90°-120°	1139.5	7.5
90°-150°	1507.6	9.9
90°-180°	1569.0	10.3
0°-180°	15253.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4897	4897	4897	4897	4897	
5°	4865	4882	4848	4863	4856	463
15°	4707	4688	4655	4696	4702	1329
25°	4373	4354	4384	4424	4412	2016
35°	3876	3885	3924	3966	3951	2422
45°	3217	3269	3330	3415	3425	2478
55°	2367	2481	2650	2756	2750	2113
65°	1389	1606	1824	1539	1257	1384
75°	547	793	583	597	636	597
85°	94	180	232	280	293	115
90°	4	81	147	186	197	8
95°	27	104	182	232	256	94
105°	592	597	535	399	372	561
115°	411	414	430	434	427	415
125°	201	213	226	226	226	190
135°	123	127	131	136	138	97
145°	91	94	96	98	99	58
155°	75	77	78	78	79	35
165°	66	66	67	67	67	19
175°	61	61	60	60	60	6
180°	60	60	60	60	60	



TEST NUMBER: P826481

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4896.7	4896.7	4896.7	4896.7	4896.7
2.5°	4876.9	4897.3	4871.8	4899.5	4906.5
5°	4864.8	4881.8	4847.8	4862.7	4856.3
7.5°	4842.9	4848.5	4808.2	4820.2	4807.4
10°	4810.3	4807.4	4760.0	4783.3	4786.2
12.5°	4762.1	4753.6	4711.1	4746.6	4747.2
15°	4706.9	4688.5	4655.2	4696.3	4701.9
17.5°	4643.2	4619.1	4597.1	4650.3	4641.8
20°	4568.8	4540.6	4536.3	4594.3	4573.1
22.5°	4476.8	4454.8	4464.8	4520.0	4506.5
25°	4372.7	4353.6	4384.0	4424.4	4411.7
27.5°	4263.0	4251.6	4286.3	4317.5	4292.7
30°	4142.6	4136.2	4182.3	4207.8	4176.6
32.5°	4011.6	4013.8	4057.7	4092.3	4063.4
35°	3875.7	3884.9	3924.5	3966.3	3950.8
37.5°	3726.3	3746.8	3786.5	3833.9	3817.6
40°	3568.4	3598.2	3642.0	3699.4	3684.5
42.5°	3397.7	3435.3	3491.9	3555.7	3554.3
45°	3216.6	3268.9	3329.8	3414.8	3425.4
47.5°	3028.2	3086.9	3164.2	3277.4	3293.7
50°	2823.6	2897.2	2993.5	3129.5	3139.3
52.5°	2595.6	2696.1	2823.6	2953.9	2941.9
55°	2366.9	2480.9	2650.1	2756.3	2750.0
57.5°	2138.9	2267.1	2472.4	2548.1	2547.5
60°	1884.0	2046.2	2270.6	2328.0	2271.3
62.5°	1648.3	1822.4	2055.4	2013.6	1819.6
65°	1389.1	1606.5	1823.9	1539.2	1256.7
67.5°	1159.0	1385.6	1549.2	1054.2	902.7
70°	927.5	1177.4	1207.9	782.3	771.7
72.5°	722.2	988.4	833.3	669.8	703.8
75°	546.6	793.0	583.4	596.9	635.8
77.5°	398.6	608.9	453.8	523.3	555.1
80°	274.0	431.2	370.3	439.7	461.6
82.5°	172.1	284.7	296.7	354.0	376.7
85°	94.2	180.5	231.5	279.6	293.1
87.5°	38.9	109.1	177.0	216.0	227.2
90°	3.5	80.7	146.7	185.5	197.2
92.5°	10.0	72.1	140.5	180.6	194.9
95°	26.8	104.5	181.7	232.0	256.2
97.5°	155.9	203.8	258.5	301.5	321.1
100°	315.7	363.5	335.6	361.6	370.2
102.5°	507.2	507.4	408.2	381.9	378.5
105°	591.8	597.0	535.4	398.7	372.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	478.6	490.1	495.9	485.5	470.1
115°	411.4	414.2	430.0	433.8	426.8
117.5°	353.7	353.2	367.6	370.0	369.5
120°	296.0	300.4	310.5	312.2	312.0
122.5°	245.8	253.2	265.7	266.4	266.1
125°	201.3	213.2	225.8	226.1	225.8
127.5°	173.2	179.7	192.8	195.0	193.7
130°	150.8	156.1	165.4	169.1	169.1
132.5°	135.7	140.1	146.9	150.7	151.6
135°	122.6	127.1	130.6	136.0	137.6
137.5°	114.1	115.9	119.7	124.1	125.8
140°	104.8	107.6	109.6	113.4	115.1
142.5°	97.5	100.1	101.2	105.2	106.0
145°	91.0	93.6	95.5	98.1	98.7
147.5°	87.1	89.0	90.8	90.8	92.5
150°	82.4	84.3	85.2	86.2	86.2
152.5°	78.7	79.7	81.5	81.5	82.4
155°	75.0	76.7	78.5	78.5	78.7
157.5°	72.2	73.9	74.8	75.7	75.7
160°	69.4	71.1	72.0	72.0	73.0
162.5°	68.3	69.2	69.2	70.2	70.2
165°	66.4	66.4	67.4	67.4	67.4
167.5°	64.6	65.2	65.5	65.5	66.4
170°	62.7	63.6	63.6	62.9	63.8
172.5°	61.8	61.8	62.7	62.0	62.0
175°	60.9	60.9	60.1	60.3	60.3
177.5°	60.6	60.9	60.1	59.4	58.7
180°	60.1	60.1	60.1	60.1	60.1



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	592.6	603.5	580.9	462.4	395.9
110°	547.7	559.4	552.9	511.8	455.6



(END OF REPORT)