

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: P826482

Luminaire Tested: **OHBL-15SE-MCL-UNV-L830-CD-UPL24**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P826482  
REPORT IS A COMBINATION OF REPORTS P826222 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-MCL-UNV-L830-CD-UPL24  
Description:  
Light Source: -  
Ballast/Driver: -

**Summary**

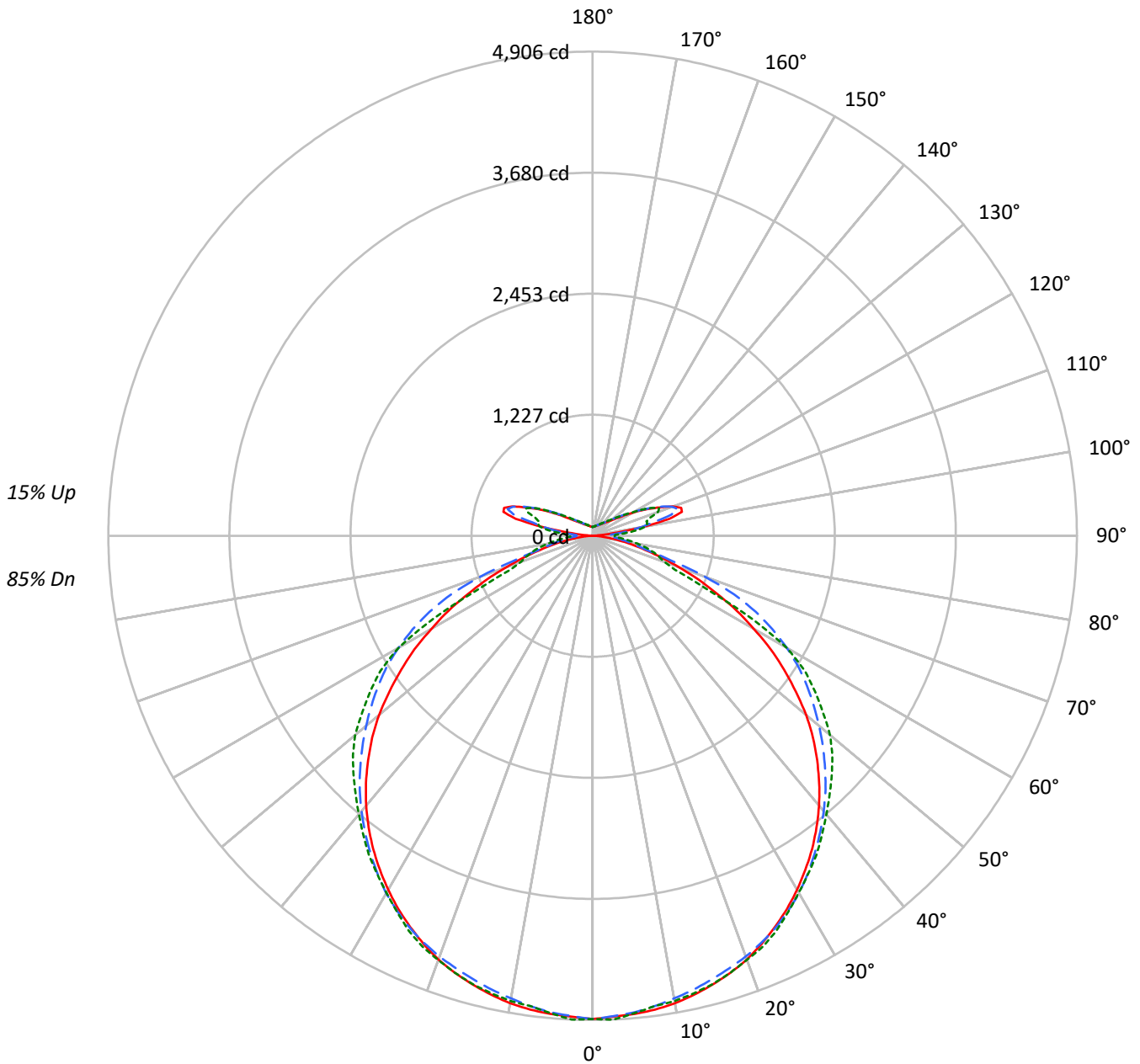
Lumens per Lamp: N/A  
Luminaire Lumens: 16092.4 lumens  
Efficiency: N/A  
Efficacy: 154.1 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 0.88' x H: 0.17')  
CIE Type: Semi-Direct

Input Watts (W): 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	111	111	111	111	103	103	103	95	95	95	88	88	88	85				
1	106	101	97	93	102	97	94	90	91	88	85	84	82	80	78	76	75	72				
2	96	88	82	76	92	85	79	74	79	75	70	74	70	67	69	66	63	60				
3	88	78	70	64	84	75	68	62	70	64	59	65	60	56	61	57	54	51				
4	80	69	60	54	77	67	59	53	62	56	51	58	53	48	54	50	46	43				
5	74	61	53	46	71	60	51	45	56	49	44	52	46	42	49	44	40	38				
6	68	55	47	40	65	54	45	40	50	43	38	47	41	37	44	39	35	33				
7	63	50	42	36	61	48	41	35	46	39	34	43	37	32	40	35	31	29				
8	59	46	37	32	56	44	36	31	42	35	30	39	33	29	37	32	28	26				
9	55	42	34	28	53	41	33	28	38	32	27	36	30	26	34	29	25	23				
10	51	38	31	26	49	37	30	25	35	29	24	33	28	24	32	27	23	21				

**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	2.9
10°-20°	1324.0	8.2
20°-30°	2022.1	12.6
30°-40°	2453.5	15.2
40°-50°	2571.5	16.0
50°-60°	2330.2	14.5
60°-70°	1562.3	9.7
70°-80°	701.5	4.4
80°-90°	260.3	1.6
90°-100°	292.4	1.8
100°-110°	785.2	4.9
110°-120°	660.6	4.1
120°-130°	318.2	2.0
130°-140°	161.1	1.0
140°-150°	94.0	0.6
150°-160°	55.5	0.3
160°-170°	29.2	0.2
170°-180°	8.9	0.1
0°-30°	3807.8	23.7
0°-40°	6261.3	38.9
0°-60°	11163.0	69.4
0°-90°	13687.1	85.1
90°-120°	1738.2	10.8
90°-150°	2311.5	14.4
90°-180°	2405.0	14.9
0°-180°	16092.4	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°	5	92	163	208	221	9
95°	50	141	242	312	343	154
105°	936	939	826	608	565	889
115°	650	659	671	675	671	655
125°	320	337	350	352	350	300
135°	192	197	204	210	212	152
145°	141	146	148	150	152	90
155°	115	118	120	120	120	54
165°	101	102	103	103	103	29
175°	92	92	92	92	92	9
180°	91	91	91	91	91	



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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°	5.4	91.8	163.4	207.8	221.4
92.5°	16.6	87.9	164.7	216.0	233.0
95°	50.1	140.8	242.2	312.0	342.7
97.5°	251.7	300.6	359.9	435.5	469.1
100°	515.8	570.1	497.5	534.7	545.1
102.5°	796.6	808.9	623.2	573.6	568.3
105°	936.1	939.4	825.8	608.1	564.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	756.8	773.0	772.3	757.2	728.8
115°	649.6	658.9	671.0	674.8	670.7
117.5°	556.6	558.9	573.2	576.6	578.9
120°	461.6	472.5	490.1	489.0	484.2
122.5°	388.1	399.3	412.7	414.4	409.4
125°	319.5	337.0	350.5	351.8	349.6
127.5°	271.8	283.9	298.9	302.0	301.7
130°	237.4	245.5	258.4	262.1	263.1
132.5°	212.0	219.2	227.9	234.4	233.5
135°	192.4	196.9	204.2	209.6	212.1
137.5°	177.4	180.2	185.7	192.1	192.8
140°	163.4	167.1	171.0	175.8	177.5
142.5°	150.6	155.0	158.0	162.0	162.8
145°	141.3	145.7	148.5	150.2	151.8
147.5°	133.6	137.4	139.2	141.1	141.8
150°	127.1	129.0	131.8	132.7	133.6
152.5°	120.6	122.5	125.3	126.2	126.2
155°	115.0	117.6	119.5	120.4	119.7
157.5°	110.4	113.0	114.8	115.8	115.8
160°	106.6	108.3	110.2	111.1	111.1
162.5°	103.7	104.6	105.5	106.5	106.5
165°	100.9	101.8	102.7	102.7	102.7
167.5°	98.1	98.7	99.0	99.9	99.9
170°	95.3	96.2	96.2	96.4	96.4
172.5°	93.4	94.4	94.4	93.6	94.5
175°	91.6	92.5	91.8	91.9	91.9
177.5°	92.2	91.6	90.8	90.1	89.4
180°	90.8	90.8	90.8	90.8	90.8



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	940.6	954.3	902.9	720.2	608.0
110°	868.8	884.2	860.0	794.7	705.0



(END OF REPORT)