

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: P827983

Luminaire Tested: **OHBL-15SE-MFL-UNV-L935-CD-UPL15**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P827983  
REPORT IS A COMBINATION OF REPORTS P826115 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-MFL-UNV-L935-CD-UPL15  
Description:  
Light Source: -  
Ballast/Driver: -

**Summary**

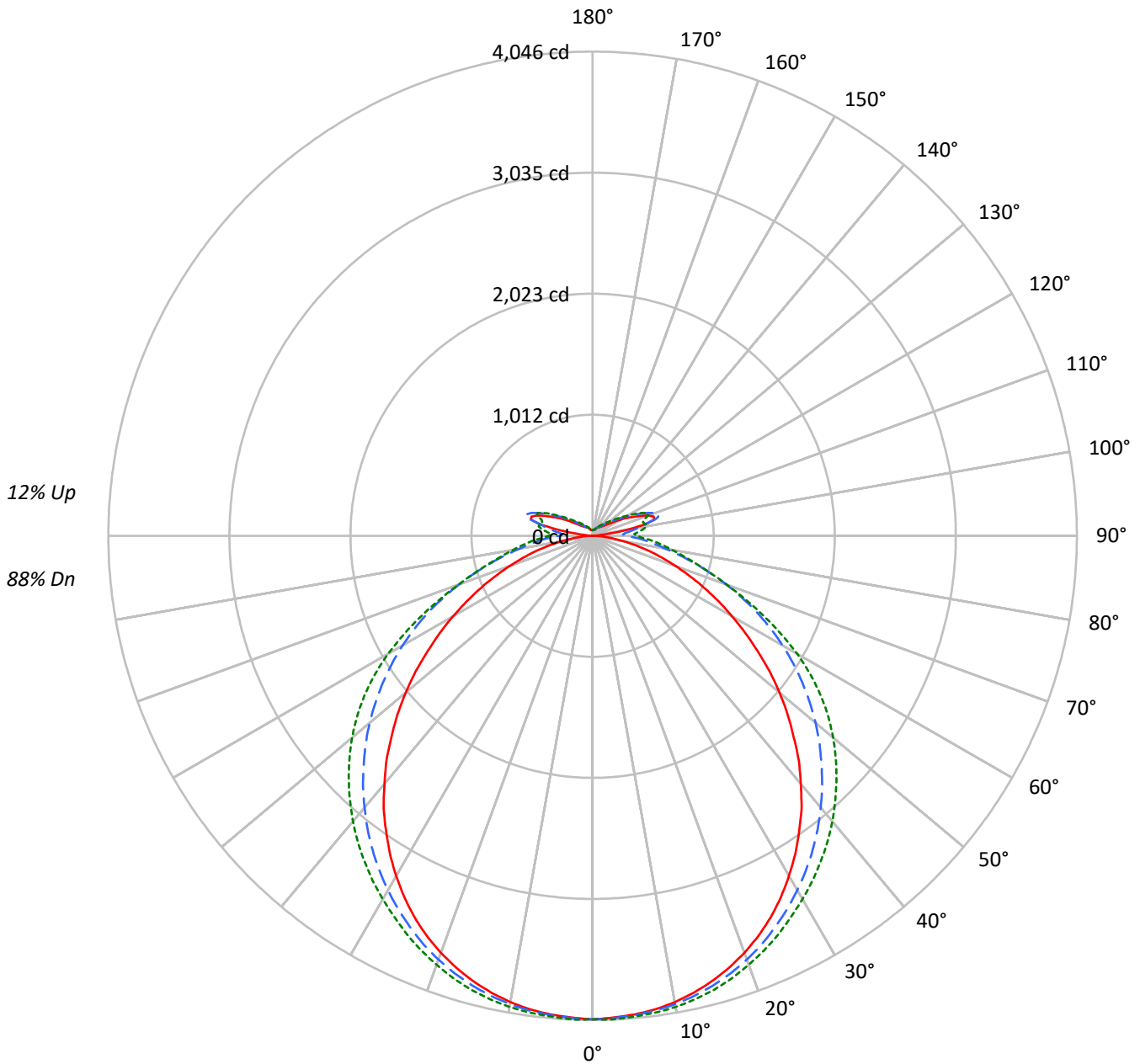
Lumens per Lamp: N/A  
Luminaire Lumens: 13361.9 lumens  
Efficiency: N/A  
Efficacy: 137.3 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 0.88' x H: 0.17')  
CIE Type: Semi-Direct

Input Watts (W): 97.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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									
RC	80									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	91	91	91	88																			
1	105	100	96	92	101	97	93	89	90	87	84	84	82	80	79	77	75	72																			
2	96	87	80	75	92	84	78	73	79	74	69	74	70	66	69	66	63	60																			
3	87	77	68	62	84	74	67	61	69	63	58	65	60	55	61	57	53	50																			
4	80	68	59	52	77	66	58	51	62	55	49	58	52	47	54	49	45	43																			
5	73	61	52	45	70	59	50	44	55	48	43	52	46	41	49	44	39	37																			
6	68	54	46	39	65	53	45	39	50	43	37	47	41	36	44	39	35	32																			
7	63	49	41	35	60	48	40	34	45	38	33	43	36	32	40	35	31	29																			
8	58	45	36	31	56	44	36	30	41	34	29	39	33	28	37	32	28	26																			
9	54	41	33	28	52	40	32	27	38	31	26	36	30	26	34	29	25	23																			
10	51	38	30	25	49	37	30	25	35	28	24	33	27	23	32	26	23	21																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	13149	13149	13149
5°	12900	12946	13119
10°	12649	12756	13106
15°	12349	12545	13071
20°	12006	12304	12996
25°	11602	12023	12922
30°	11107	11723	12849
35°	10544	11407	12800
40°	9902	11051	12760
45°	9178	10668	12697
50°	8405	10274	12614
55°	7502	9806	12419
60°	6586	9264	11929
65°	5612	8593	11048
70°	4582	7762	10104
75°	3553	6803	9609
80°	2378	5977	10066
85°	1185	5661	12619



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	383.0	2.9
10°-20°	1098.7	8.2
20°-30°	1661.5	12.4
30°-40°	1994.7	14.9
40°-50°	2060.2	15.4
50°-60°	1853.5	13.9
60°-70°	1396.2	10.4
70°-80°	843.1	6.3
80°-90°	415.5	3.1
90°-100°	294.9	2.2
100°-110°	519.6	3.9
110°-120°	419.5	3.1
120°-130°	206.3	1.5
130°-140°	104.0	0.8
140°-150°	58.8	0.4
150°-160°	32.5	0.2
160°-170°	15.2	0.1
170°-180°	4.6	0.0
0°-30°	3143.2	23.5
0°-40°	5137.9	38.5
0°-60°	9051.6	67.7
0°-90°	11706.5	87.6
90°-120°	1234.0	9.2
90°-150°	1603.1	12.0
90°-180°	1655.0	12.4
0°-180°	13361.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4042	4042	4042	4042	4042	
5°	4016	4027	4022	4038	4033	382
15°	3854	3872	3890	3923	3927	1086
25°	3519	3558	3608	3665	3674	1619
35°	3009	3079	3206	3303	3322	1881
45°	2375	2495	2703	2851	2881	1834
55°	1682	1857	2138	2300	2327	1509
65°	1027	1236	1513	1589	1571	1020
75°	484	694	876	899	890	516
85°	101	266	439	500	508	117
90°	2	122	275	348	365	8
95°	28	130	277	358	386	87
105°	534	561	552	456	436	506
115°	371	386	434	455	452	375
125°	184	197	231	248	250	173
135°	111	116	131	147	152	88
145°	86	86	89	99	102	54
155°	71	73	73	72	74	32
165°	52	52	53	53	53	15
175°	48	48	48	48	48	5
180°	48	48	48	48	48	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4041.6	4041.6	4041.6	4041.6	4041.6
2.5°	4029.8	4039.6	4033.7	4046.6	4045.6
5°	4015.9	4026.8	4021.8	4037.7	4032.7
7.5°	3992.2	4004.0	4003.0	4020.8	4018.8
10°	3957.5	3970.4	3974.3	3998.1	3998.1
12.5°	3910.1	3926.8	3936.8	3965.4	3966.4
15°	3853.7	3872.5	3890.3	3922.9	3926.8
17.5°	3785.4	3809.2	3833.9	3871.5	3876.4
20°	3708.2	3735.0	3768.6	3808.2	3814.1
22.5°	3619.3	3650.9	3694.4	3740.9	3747.8
25°	3519.3	3557.9	3608.3	3664.8	3673.7
27.5°	3405.6	3450.1	3518.3	3581.7	3589.6
30°	3281.9	3334.3	3419.4	3494.6	3507.5
32.5°	3151.4	3211.8	3316.6	3400.7	3418.4
35°	3008.9	3079.2	3205.8	3302.8	3322.5
37.5°	2868.5	2945.7	3089.1	3199.8	3223.6
40°	2704.3	2800.3	2964.4	3087.1	3115.8
42.5°	2550.0	2653.8	2839.8	2973.3	3001.0
45°	2374.9	2494.6	2703.3	2850.7	2881.3
47.5°	2210.8	2340.3	2571.8	2724.1	2755.8
50°	2037.6	2180.1	2431.3	2590.6	2623.2
52.5°	1864.5	2017.8	2285.9	2451.1	2481.8
55°	1682.5	1856.6	2138.5	2299.8	2327.4
57.5°	1513.4	1697.3	1987.2	2140.5	2157.3
60°	1346.2	1537.1	1832.8	1967.4	1973.3
62.5°	1183.0	1383.8	1674.6	1781.4	1773.5
65°	1026.8	1236.4	1513.4	1588.6	1570.8
67.5°	876.3	1093.0	1348.2	1396.7	1372.9
70°	733.9	953.5	1187.9	1212.7	1190.9
72.5°	608.3	821.0	1025.8	1046.5	1030.7
75°	483.7	694.3	876.3	899.1	890.2
77.5°	367.0	571.8	738.9	768.6	770.5
80°	264.1	459.9	619.2	665.7	671.6
82.5°	174.1	357.1	519.3	578.7	587.6
85°	100.9	266.1	439.2	499.5	508.4
87.5°	43.5	191.9	353.1	407.5	418.4
90°	2.5	122.2	275.4	348.2	365.2
92.5°	11.3	109.4	254.0	328.3	347.5
95°	28.2	130.3	277.1	357.7	385.8
97.5°	144.2	215.2	333.2	404.5	428.4
100°	286.8	354.8	390.6	444.7	458.4
102.5°	457.6	482.2	446.2	450.2	452.2
105°	534.4	560.6	552.2	455.8	435.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	432.1	456.7	497.7	508.4	497.3
115°	371.2	386.1	433.9	455.0	451.5
117.5°	320.6	329.8	372.7	392.8	394.1
120°	268.9	280.2	316.6	334.7	337.8
122.5°	223.9	235.5	272.3	288.6	290.8
125°	183.8	196.8	231.4	247.5	249.7
127.5°	156.9	164.8	197.1	214.9	216.2
130°	136.9	142.1	168.8	186.5	189.4
132.5°	122.8	128.1	148.1	164.8	169.5
135°	111.1	116.4	130.8	147.2	152.1
137.5°	102.8	106.4	117.7	132.3	137.1
140°	95.4	98.9	106.3	119.1	123.8
142.5°	90.6	92.2	95.9	108.4	111.4
145°	85.8	86.4	89.1	98.7	101.6
147.5°	81.6	83.3	84.9	88.8	92.7
150°	77.4	80.1	79.9	81.8	84.7
152.5°	74.1	75.9	76.6	75.6	78.4
155°	70.8	72.6	73.3	72.2	74.1
157.5°	58.3	59.2	60.0	60.8	60.8
160°	55.8	56.7	57.5	57.5	58.3
162.5°	54.2	55.0	55.0	55.8	55.8
165°	52.5	52.5	53.3	53.3	53.3
167.5°	50.8	50.8	51.7	51.7	52.5
170°	49.2	50.0	50.0	50.0	50.8
172.5°	48.3	48.3	49.2	49.2	49.2
175°	47.5	47.5	47.5	48.3	48.3
177.5°	46.7	47.5	47.5	47.5	47.5
180°	47.5	47.5	47.5	47.5	47.5



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	534.4	563.9	585.1	503.2	447.4
110°	493.6	522.5	554.2	539.4	492.7



(END OF REPORT)