

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: P828617

Luminaire Tested: **OHBL-18SE-MFL-UNV-L950-CD-UPL24**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P828617  
REPORT IS A COMBINATION OF REPORTS P826235 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-18SE-MFL-UNV-L950-CD-UPL24  
Description:  
Light Source: -  
Ballast/Driver: -

**Summary**

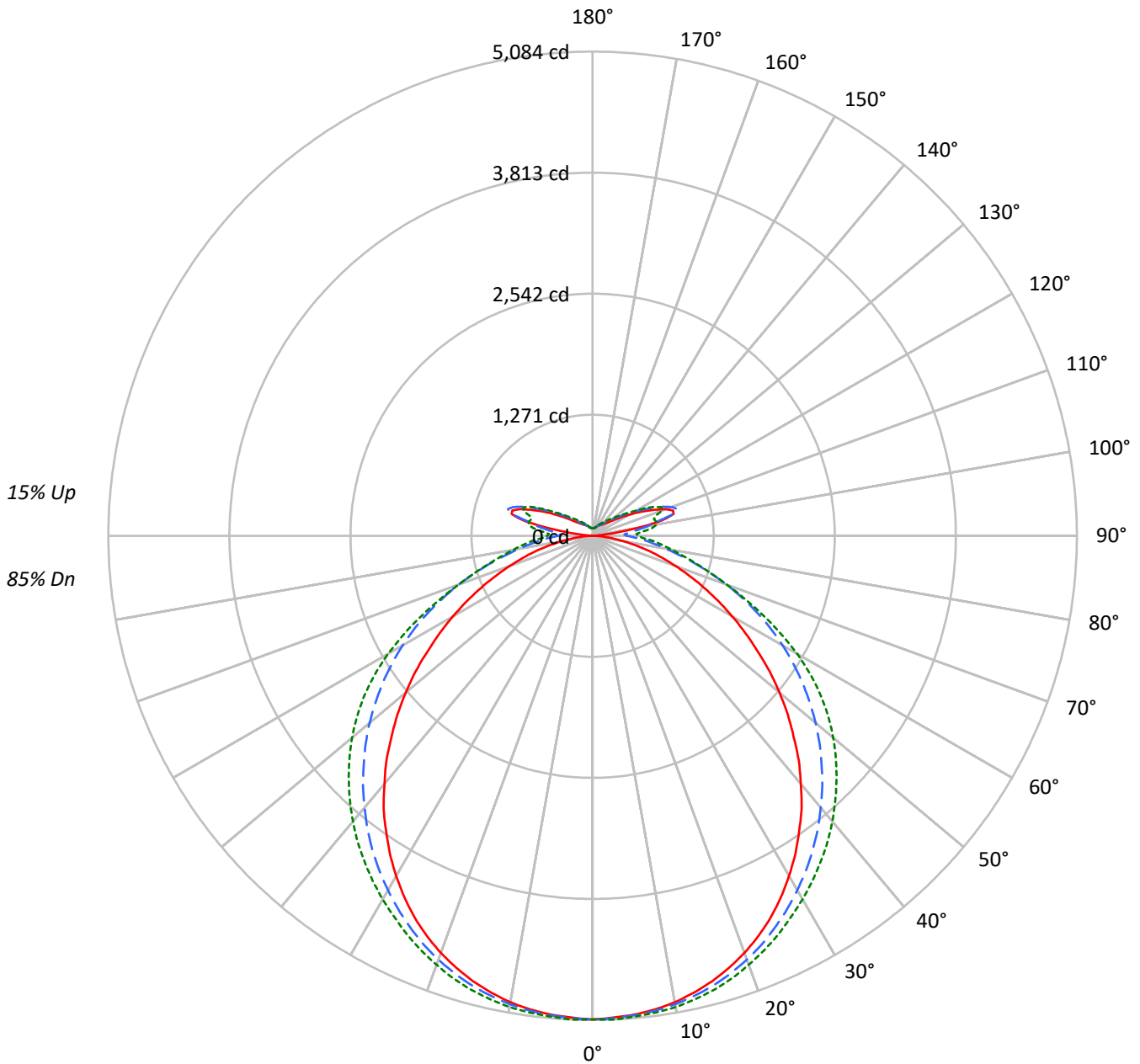
Lumens per Lamp: N/A  
Luminaire Lumens: 17305.7 lumens  
Efficiency: N/A  
Efficacy: 141.4 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')  
CIE Type: Semi-Direct

Input Watts (W): 122.4  
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	115	115	115	115	111	111	111	111	103	103	103	95	95	95	88	88	88	85																			
1	105	100	96	92	101	96	92	89	89	86	83	83	80	78	77	75	73	70																			
2	95	87	80	74	91	84	78	72	78	73	68	72	68	65	67	64	61	58																			
3	87	76	68	62	83	74	66	60	68	62	57	64	59	54	59	55	52	49																			
4	79	67	59	52	76	65	57	51	61	54	49	57	51	46	53	48	44	42																			
5	73	60	51	45	70	58	50	44	54	47	42	51	45	40	48	43	38	36																			
6	67	54	45	39	64	52	44	38	49	42	37	46	40	35	43	38	34	31																			
7	62	49	40	34	60	47	39	34	45	38	32	42	36	31	39	34	30	28																			
8	58	45	36	30	56	43	35	30	41	34	29	38	32	28	36	31	27	25																			
9	54	41	33	27	52	40	32	27	37	31	26	35	29	25	33	28	24	22																			
10	51	38	30	25	49	37	29	24	35	28	24	33	27	23	31	26	22	20																			

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

	0°	45°	90°
0°	8675	8675	8675
5°	8578	8589	8656
10°	8476	8510	8647
15°	8340	8415	8625
20°	8173	8301	8575
25°	7964	8158	8525
30°	7691	8004	8478
35°	7369	7841	8446
40°	6991	7652	8419
45°	6554	7447	8377
50°	6080	7240	8323
55°	5510	6986	8194
60°	4926	6688	7871
65°	4294	6308	7289
70°	3613	5825	6667
75°	2921	5266	6340
80°	2083	4851	6642
85°	1159	4996	8327



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	481.3	2.8
10°-20°	1380.7	8.0
20°-30°	2088.1	12.1
30°-40°	2506.8	14.5
40°-50°	2589.1	15.0
50°-60°	2329.4	13.5
60°-70°	1754.7	10.1
70°-80°	1059.6	6.1
80°-90°	523.6	3.0
90°-100°	419.7	2.4
100°-110°	824.3	4.8
110°-120°	673.4	3.9
120°-130°	329.3	1.9
130°-140°	165.9	1.0
140°-150°	94.1	0.5
150°-160°	52.6	0.3
160°-170°	25.2	0.1
170°-180°	7.7	0.0
0°-30°	3950.2	22.8
0°-40°	6457.0	37.3
0°-60°	11375.5	65.7
0°-90°	14713.4	85.0
90°-120°	1917.5	11.1
90°-150°	2506.8	14.5
90°-180°	2592.0	15.0
0°-180°	17305.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5079	5079	5079	5079	5079	
5°	5047	5061	5054	5074	5068	479
15°	4843	4867	4889	4930	4935	1365
25°	4423	4471	4535	4606	4617	2034
35°	3782	3870	4029	4151	4176	2364
45°	2985	3135	3397	3582	3621	2304
55°	2114	2333	2688	2890	2925	1896
65°	1290	1554	1902	1996	1974	1282
75°	608	873	1101	1130	1119	648
85°	127	334	552	628	639	147
90°	4	160	357	452	474	11
95°	52	185	386	499	536	148
105°	881	913	871	702	666	836
115°	612	636	692	719	719	617
125°	304	323	367	388	389	285
135°	183	189	210	230	237	144
145°	138	141	145	155	160	88
155°	113	116	117	116	118	51
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°	5079.3	5079.3	5079.3	5079.3	5079.3
2.5°	5064.3	5076.8	5069.3	5085.5	5084.3
5°	5047.0	5060.6	5054.4	5074.3	5068.1
7.5°	5017.1	5032.0	5030.8	5053.1	5050.7
10°	4973.6	4989.7	4994.7	5024.6	5024.6
12.5°	4913.9	4935.1	4947.5	4983.6	4984.8
15°	4843.1	4866.7	4889.1	4930.1	4935.1
17.5°	4757.3	4787.2	4818.2	4865.4	4871.7
20°	4660.3	4693.9	4736.1	4785.9	4793.3
22.5°	4548.5	4588.2	4642.9	4701.3	4710.0
25°	4423.0	4471.4	4534.8	4605.6	4616.8
27.5°	4279.9	4335.9	4421.6	4501.2	4511.2
30°	4124.6	4190.5	4297.3	4391.8	4408.0
32.5°	3960.5	4036.3	4168.1	4273.8	4296.1
35°	3781.5	3869.7	4028.8	4150.6	4175.5
37.5°	3605.0	3701.9	3882.2	4021.4	4051.3
40°	3398.6	3519.2	3725.6	3879.7	3915.7
42.5°	3204.7	3335.2	3568.9	3736.7	3771.6
45°	2984.6	3135.0	3397.4	3582.5	3621.1
47.5°	2778.3	2941.2	3232.1	3423.4	3463.3
50°	2560.8	2739.8	3055.5	3255.6	3296.7
52.5°	2343.2	2535.9	2872.8	3080.4	3118.9
55°	2114.5	2333.2	2687.5	2890.2	2925.0
57.5°	1901.9	2133.2	2497.4	2690.1	2711.2
60°	1691.9	1931.7	2303.4	2472.5	2480.0
62.5°	1486.8	1739.1	2104.6	2238.8	2228.8
65°	1290.3	1553.9	1901.9	1996.4	1974.0
67.5°	1101.4	1373.6	1694.3	1755.2	1725.4
70°	922.4	1198.4	1492.9	1524.0	1496.7
72.5°	764.5	1031.8	1289.1	1315.2	1295.3
75°	607.8	872.7	1101.4	1129.9	1118.8
77.5°	461.2	718.5	928.6	965.9	968.4
80°	331.9	578.0	778.2	836.6	844.1
82.5°	218.8	448.7	652.6	727.2	738.4
85°	126.8	334.4	551.9	627.7	639.0
87.5°	54.7	241.2	443.8	512.2	525.8
90°	4.3	160.1	356.6	451.7	473.9
92.5°	18.5	147.3	333.6	434.3	459.2
95°	52.3	184.8	385.8	499.1	536.4
97.5°	241.4	327.6	477.2	591.8	631.7
100°	487.4	574.1	589.0	664.7	682.4
102.5°	749.1	794.5	692.7	683.0	684.8
105°	880.7	913.4	870.6	701.6	666.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	712.4	746.5	793.5	805.8	783.0
115°	611.6	636.3	692.3	719.1	718.9
117.5°	525.9	540.4	593.7	620.1	624.7
120°	437.2	456.7	509.3	529.8	529.6
122.5°	368.6	385.2	431.4	453.3	451.9
125°	303.8	323.2	366.6	388.1	389.2
127.5°	257.4	271.2	312.1	335.4	338.3
130°	225.2	233.4	269.4	291.4	296.0
132.5°	200.8	209.4	235.4	258.7	262.8
135°	182.6	188.6	209.5	230.0	236.7
137.5°	167.8	172.9	188.1	208.1	213.0
140°	156.0	160.8	171.3	188.0	193.8
142.5°	146.0	149.5	155.4	170.8	174.5
145°	138.5	140.8	144.6	155.4	160.0
147.5°	130.7	134.2	135.9	142.6	146.3
150°	124.6	127.5	128.9	131.0	135.6
152.5°	118.5	121.5	122.9	122.5	124.9
155°	113.3	116.2	116.8	116.4	117.6
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°	884.2	923.8	931.8	792.9	693.1
110°	816.4	855.4	883.4	851.2	772.2



(END OF REPORT)