

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: P828316

Luminaire Tested: **OHBL-18SE-MFL-UNV-L940-CD-UPL18**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P828316  
REPORT IS A COMBINATION OF REPORTS P826163 AND G3-2310-221-8  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-18SE-MFL-UNV-L940-CD-UPL18  
Description:  
Light Source: -  
Ballast/Driver: -

**Summary**

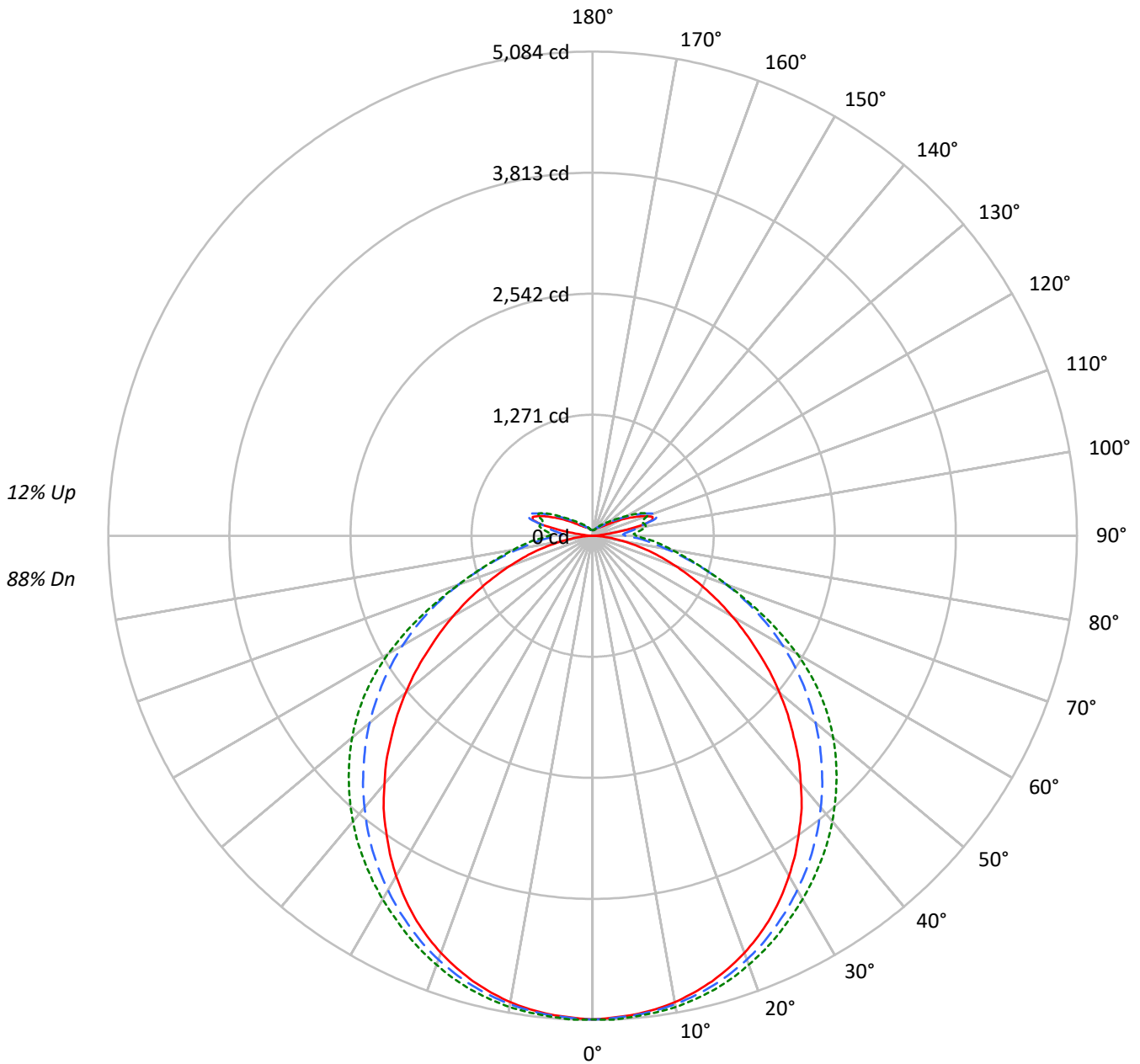
Lumens per Lamp: N/A  
Luminaire Lumens: 16757.6 lumens  
Efficiency: N/A  
Efficacy: 142.9 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')  
CIE Type: Semi-Direct

Input Watts (W): 117.3  
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									
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	91	87	84	85	82	80	79	77	75	72																			
2	96	87	81	75	92	84	78	73	79	74	69	74	70	66	69	66	63	60																			
3	87	77	69	62	84	74	67	61	69	63	58	65	60	56	61	57	53	50																			
4	80	68	59	52	77	66	58	51	62	55	49	58	52	47	54	50	46	43																			
5	73	61	52	45	70	59	50	44	55	48	43	52	46	41	49	44	40	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	37	32	40	35	31	29																			
8	58	45	37	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	29	24	33	27	23	32	26	23	21																			

**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	2.9
10°-20°	1380.7	8.2
20°-30°	2088.1	12.5
30°-40°	2506.8	15.0
40°-50°	2589.1	15.5
50°-60°	2329.4	13.9
60°-70°	1754.7	10.5
70°-80°	1059.6	6.3
80°-90°	522.1	3.1
90°-100°	367.0	2.2
100°-110°	641.5	3.8
110°-120°	517.3	3.1
120°-130°	254.7	1.5
130°-140°	128.3	0.8
140°-150°	72.5	0.4
150°-160°	40.0	0.2
160°-170°	18.7	0.1
170°-180°	5.7	0.0
0°-30°	3950.2	23.6
0°-40°	6457.0	38.5
0°-60°	11375.5	67.9
0°-90°	14711.9	87.8
90°-120°	1525.8	9.1
90°-150°	1981.2	11.8
90°-180°	2046.0	12.2
0°-180°	16757.6	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	152	345	437	457	11
95°	39	160	348	446	478	109
105°	653	689	681	562	540	620
115°	456	480	535	558	562	460
125°	227	241	285	306	308	213
135°	137	142	162	182	188	109
145°	106	107	111	122	125	67
155°	87	90	90	90	91	39
165°	64	65	65	66	66	18
175°	58	58	59	59	59	6
180°	58	58	58	58	58	



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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°	3.5	152.2	345.3	436.9	457.4
92.5°	15.0	136.9	318.8	411.7	432.3
95°	39.2	159.5	348.4	446.0	478.1
97.5°	177.0	259.8	412.0	507.5	532.5
100°	357.0	431.5	485.6	552.5	567.7
102.5°	554.4	603.2	550.1	557.8	561.3
105°	653.0	689.1	681.0	562.4	540.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	533.3	560.4	611.0	629.3	612.6
115°	455.9	479.8	534.9	558.3	562.4
117.5°	391.2	407.4	458.9	484.5	489.1
120°	328.6	344.6	392.8	415.1	418.3
122.5°	276.4	290.4	335.8	356.8	358.8
125°	227.3	241.4	284.8	306.4	308.3
127.5°	193.0	203.4	243.4	265.0	267.0
130°	168.7	176.0	208.6	230.6	235.2
132.5°	152.2	157.3	182.3	203.1	209.8
135°	137.4	142.5	161.7	182.1	188.0
137.5°	126.1	131.2	144.6	163.7	169.5
140°	117.7	121.6	130.4	147.1	152.9
142.5°	111.2	113.8	118.9	133.5	138.0
145°	106.3	106.9	110.7	121.5	125.2
147.5°	100.2	102.0	103.7	110.4	114.2
150°	95.0	98.0	98.5	100.6	105.2
152.5°	91.6	93.6	94.2	93.8	96.2
155°	87.2	90.2	89.8	89.5	90.7
157.5°	72.2	73.0	73.9	74.8	74.8
160°	69.6	69.6	70.4	71.3	71.3
162.5°	66.9	66.9	67.8	68.7	68.7
165°	64.3	65.2	65.2	66.1	66.1
167.5°	62.6	62.6	63.5	63.5	64.3
170°	60.9	60.9	61.7	61.7	61.7
172.5°	59.1	60.0	60.0	60.0	60.0
175°	58.3	58.3	59.1	59.1	59.1
177.5°	57.4	58.3	58.3	58.3	58.3
180°	58.3	58.3	58.3	58.3	58.3



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	659.0	695.1	720.5	625.1	555.7
110°	604.3	642.3	683.4	666.0	612.2



(END OF REPORT)