

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: P829981

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

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P829981  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-1)  
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  
Description: 18000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 4000K LEDS AND MEDIUM FROSTED LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

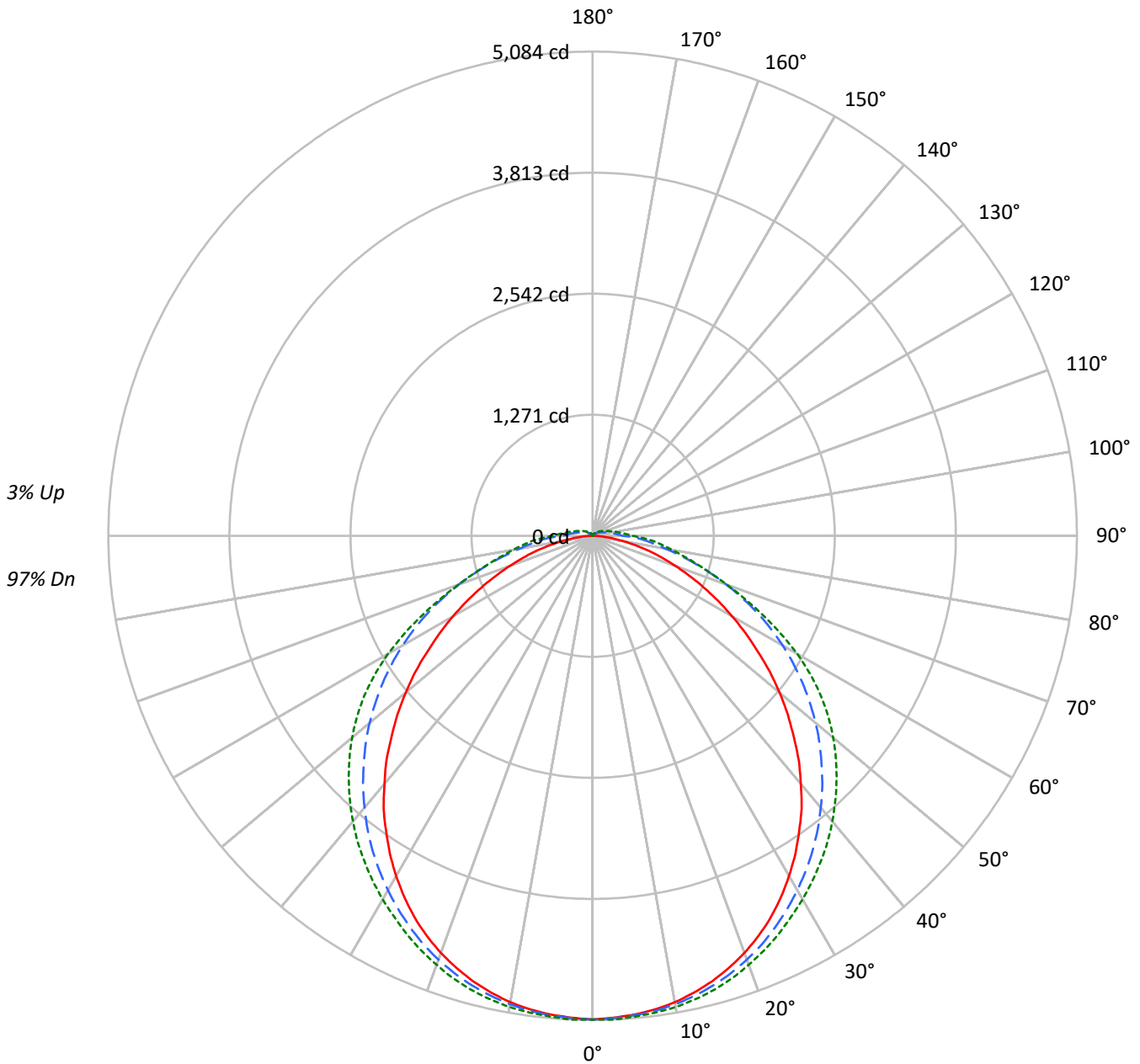
Lumens per Lamp: N/A  
Luminaire Lumens: 15202.0 lumens  
Efficiency: N/A  
Efficacy: 144.8 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 105  
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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	97																	
1	107	102	98	94	104	100	96	92	95	91	88	90	88	85	86	84	82	82	82	80																	
2	98	89	82	76	95	87	80	75	83	77	73	79	74	71	75	72	68	68	68	66																	
3	89	78	70	63	86	76	69	62	73	66	61	70	64	59	67	62	58	58	58	56																	
4	81	69	60	53	79	68	59	53	65	57	52	62	56	51	59	54	50	50	50	47																	
5	75	62	53	46	72	60	52	46	58	50	45	56	49	44	53	48	43	43	43	41																	
6	69	56	47	40	67	54	46	40	52	45	39	50	44	39	48	43	38	38	38	36																	
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	44	38	34	34	34	32																	
8	60	46	37	31	58	45	37	31	43	36	31	42	35	31	41	35	30	30	30	28																	
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	37	32	27	27	27	25																	
10	52	39	31	26	51	38	31	26	37	30	25	36	29	25	35	29	25	25	25	23																	

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

	0°	45°	90°
0°	8676	8676	8676
5°	8620	8590	8614
10°	8560	8510	8564
15°	8464	8416	8499
20°	8337	8301	8407
25°	8168	8159	8313
30°	7933	8005	8219
35°	7649	7841	8137
40°	7307	7653	8055
45°	6905	7448	7952
50°	6465	7240	7827
55°	5924	6987	7622
60°	5369	6688	7221
65°	4765	6308	6569
70°	4109	5825	5863
75°	3445	5266	5376
80°	2612	4851	5298
85°	1652	4997	5843



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	481.3	3.2
10°-20°	1380.8	9.1
20°-30°	2088.2	13.7
30°-40°	2506.9	16.5
40°-50°	2589.3	17.0
50°-60°	2329.5	15.3
60°-70°	1754.8	11.5
70°-80°	1059.6	7.0
80°-90°	518.2	3.4
90°-100°	218.1	1.4
100°-110°	124.5	0.8
110°-120°	73.1	0.5
120°-130°	41.3	0.3
130°-140°	21.8	0.1
140°-150°	10.6	0.1
150°-160°	3.9	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3950.3	26.0
0°-40°	6457.3	42.5
0°-60°	11376.0	74.8
0°-90°	14708.6	96.8
90°-120°	415.8	2.7
90°-150°	489.4	3.2
90°-180°	493.0	3.2
0°-180°	15202.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5080	5080	5080	5080	5080	
5°	5047	5061	5055	5074	5068	479
15°	4843	4867	4889	4930	4935	1365
25°	4423	4472	4535	4606	4617	2034
35°	3782	3870	4029	4151	4176	2364
45°	2985	3135	3398	3583	3621	2304
55°	2115	2333	2688	2890	2925	1896
65°	1290	1554	1902	1996	1974	1282
75°	608	873	1101	1130	1119	649
85°	127	334	552	628	639	147
90°	0	130	316	398	414	8
95°	6	88	236	301	312	5
105°	9	51	137	179	186	9
115°	10	29	84	113	118	10
125°	10	14	51	73	77	9
135°	9	11	26	45	50	7
145°	12	11	12	22	26	7
155°	12	14	12	11	12	4
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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CATALOG NUMBER: OHBL-18SE-MFL-UNV-L940-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5079.5	5079.5	5079.5	5079.5	5079.5
2.5°	5064.6	5077.0	5069.5	5085.7	5084.4
5°	5047.2	5060.8	5054.6	5074.5	5068.3
7.5°	5017.3	5032.2	5031.0	5053.4	5050.9
10°	4973.8	4990.0	4994.9	5024.8	5024.8
12.5°	4914.1	4935.3	4947.7	4983.8	4985.0
15°	4843.3	4866.9	4889.3	4930.3	4935.3
17.5°	4757.5	4787.3	4818.4	4865.7	4871.9
20°	4660.5	4694.1	4736.4	4786.1	4793.5
22.5°	4548.7	4588.4	4643.1	4701.6	4710.3
25°	4423.1	4471.6	4535.0	4605.8	4617.0
27.5°	4280.1	4336.1	4421.9	4501.4	4511.4
30°	4124.7	4190.6	4297.5	4392.0	4408.2
32.5°	3960.6	4036.5	4168.2	4273.9	4296.3
35°	3781.6	3869.9	4029.0	4150.8	4175.7
37.5°	3605.1	3702.1	3882.3	4021.6	4051.4
40°	3398.7	3519.3	3725.7	3879.8	3915.9
42.5°	3204.8	3335.3	3569.1	3736.9	3771.7
45°	2984.8	3135.2	3397.5	3582.7	3621.3
47.5°	2778.4	2941.3	3232.2	3423.6	3463.4
50°	2560.9	2739.9	3055.6	3255.8	3296.8
52.5°	2343.3	2536.0	2872.9	3080.5	3119.0
55°	2114.6	2333.4	2687.7	2890.3	2925.1
57.5°	1902.0	2133.2	2497.5	2690.2	2711.3
60°	1691.9	1931.8	2303.5	2472.6	2480.1
62.5°	1486.8	1739.2	2104.6	2238.9	2229.0
65°	1290.4	1553.9	1902.0	1996.5	1974.1
67.5°	1101.4	1373.7	1694.4	1755.3	1725.5
70°	922.4	1198.4	1493.0	1524.1	1496.7
72.5°	764.5	1031.8	1289.1	1315.2	1295.4
75°	607.9	872.7	1101.4	1130.0	1118.8
77.5°	461.2	718.5	928.6	965.9	968.4
80°	331.9	578.1	778.2	836.6	844.1
82.5°	218.8	448.8	652.6	727.2	738.4
85°	126.8	334.4	552.0	627.8	639.0
87.5°	54.7	241.2	443.8	512.2	525.8
90°	0.0	130.5	315.8	397.8	414.0
92.5°	3.7	108.2	271.0	345.6	359.3
95°	6.2	88.3	236.2	300.8	312.0
97.5°	7.5	74.6	205.1	262.3	273.5
100°	7.5	64.6	177.8	230.0	239.9
102.5°	7.5	57.2	155.4	201.4	210.1
105°	8.7	51.0	136.7	179.0	186.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	9.9	33.6	94.5	126.8	131.8
115°	9.9	28.6	84.5	113.1	118.1
117.5°	11.2	24.9	74.6	101.9	105.7
120°	11.2	21.1	65.9	90.7	95.7
122.5°	11.2	17.4	58.4	82.0	85.8
125°	9.9	13.7	51.0	73.3	77.1
127.5°	8.7	11.2	43.5	65.9	69.6
130°	8.7	9.9	37.3	58.4	62.2
132.5°	8.7	11.2	31.1	51.0	55.9
135°	8.7	11.2	26.1	44.8	49.7
137.5°	8.7	11.2	21.1	38.5	43.5
140°	9.9	11.2	17.4	32.3	37.3
142.5°	11.2	11.2	13.7	27.3	31.1
145°	12.4	11.2	12.4	22.4	26.1
147.5°	12.4	12.4	12.4	17.4	21.1
150°	12.4	13.7	12.4	13.7	17.4
152.5°	12.4	13.7	12.4	11.2	13.7
155°	12.4	13.7	12.4	11.2	12.4
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	8.7	44.8	120.6	159.1	165.3
110°	8.7	39.8	106.9	141.7	147.9



(END OF REPORT)