

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: P829993

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

Issue Date: 5/3/2024



**Test Information**

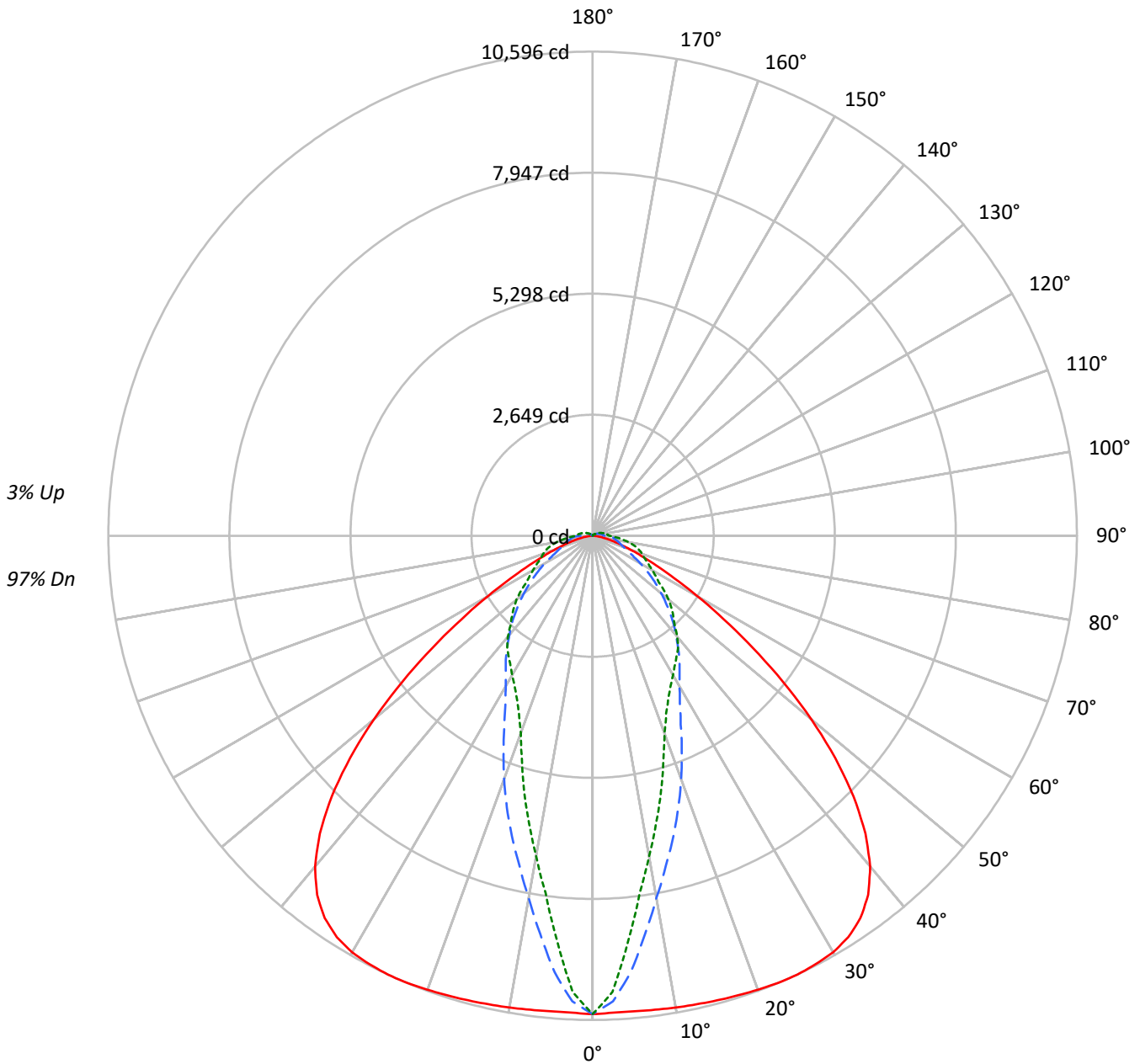
Test Method: LM-79-08  
Report Number: P829993  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-18SE-N-UNV-L940-CD  
Description: 18000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 4000K LEDS AND NARROW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15449.0 lumens  
Efficiency: N/A  
Efficacy: 147.1 lumens/watt  
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78  
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

TEST NUMBER: P829993  
CATALOG NUMBER: OHBL-18SE-N-UNV-L940-CD

### 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	109	104	100	97	106	102	98	95	97	94	91	92	90	88	88	86	85	85	85	82																	
2	100	93	86	81	97	90	85	80	86	82	78	83	79	75	79	76	73	73	73	71																	
3	92	83	75	69	90	81	74	69	78	72	67	74	70	65	72	67	64	64	64	62																	
4	85	74	66	60	83	73	66	60	70	64	59	67	62	57	65	60	56	56	56	54																	
5	79	67	59	53	77	66	59	53	64	57	52	62	56	51	59	54	50	50	50	48																	
6	74	62	53	47	72	60	53	47	58	52	46	56	50	46	55	49	45	45	45	43																	
7	69	56	48	43	67	55	48	42	54	47	42	52	46	41	50	45	41	41	41	39																	
8	65	52	44	39	63	51	44	39	50	43	38	48	42	38	47	41	37	37	37	35																	
9	61	48	41	35	59	47	40	35	46	40	35	45	39	35	44	38	34	34	34	32																	
10	57	45	37	33	56	44	37	32	43	37	32	42	36	32	41	35	32	32	32	30																	

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

	0°	45°	90°
0°	17878	17878	17878
5°	17842	16281	15138
10°	18043	13714	12138
15°	18396	11729	9963
20°	18912	9917	8058
25°	19567	8209	7060
30°	20243	7072	6559
35°	20664	6445	6249
40°	20311	5822	5928
45°	18685	5261	5489
50°	15764	4648	5151
55°	11979	4071	4584
60°	8394	3491	4389
65°	5646	3007	4296
70°	3856	2822	4508
75°	2676	2910	4816
80°	1842	3223	4958
85°	1078	4031	5202



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

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	881.1	5.7
10°-20°	2072.8	13.4
20°-30°	2598.3	16.8
30°-40°	2757.1	17.8
40°-50°	2492.8	16.1
50°-60°	1807.5	11.7
60°-70°	1134.3	7.3
70°-80°	750.6	4.9
80°-90°	432.4	2.8
90°-100°	209.5	1.4
100°-110°	144.6	0.9
110°-120°	89.2	0.6
120°-130°	43.2	0.3
130°-140°	19.9	0.1
140°-150°	10.9	0.1
150°-160°	4.7	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
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0°-30°	5552.3	35.9
0°-40°	8309.3	53.8
0°-60°	12609.7	81.6
0°-90°	14927.0	96.6
90°-120°	443.3	2.9
90°-150°	517.3	3.3
90°-180°	522.0	3.4
0°-180°	15449.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	10468	10468	10468	10468	10468	
5°	10447	10179	9581	9136	8906	999
15°	10526	8580	6814	6060	5785	2985
25°	10596	6634	4563	4050	3921	4895
35°	10216	4410	3312	3208	3207	6351
45°	8076	2794	2400	2458	2500	6153
55°	4276	1732	1566	1699	1759	3863
65°	1529	1004	907	1162	1291	1591
75°	472	541	609	945	1002	526
85°	83	224	445	620	569	99
90°	0	94	258	364	367	5
95°	4	66	227	309	323	4
105°	8	44	165	219	225	8
115°	11	31	112	140	142	11
125°	12	16	57	72	71	10
135°	10	12	25	39	39	8
145°	12	13	15	23	22	7
155°	12	15	16	17	15	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-N-UNV-L940-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	10467.5	10467.5	10467.5	10467.5	10467.5
2.5°	10445.6	10385.8	10199.5	10086.0	9990.3
5°	10446.6	10178.6	9580.9	9136.5	8906.4
7.5°	10461.5	9865.8	8788.9	8140.3	7887.3
10°	10484.5	9478.3	8049.6	7358.2	7122.1
12.5°	10501.4	9041.9	7399.1	6688.8	6429.7
15°	10526.3	8579.6	6814.3	6060.1	5785.2
17.5°	10549.2	8144.3	6236.5	5448.5	5142.6
20°	10572.1	7675.1	5658.7	4846.7	4594.7
22.5°	10594.0	7179.9	5094.8	4379.5	4207.1
25°	10596.0	6634.0	4562.8	4049.7	3921.2
27.5°	10570.1	6068.1	4131.4	3773.8	3694.1
30°	10525.3	5519.2	3796.7	3574.5	3517.7
32.5°	10413.7	4959.3	3537.7	3382.2	3349.4
35°	10216.5	4410.4	3311.5	3207.9	3206.9
37.5°	9905.6	3923.2	3066.4	3048.5	3070.4
40°	9446.4	3496.8	2834.3	2882.1	2882.1
42.5°	8833.7	3126.2	2624.1	2672.9	2660.0
45°	8076.5	2793.5	2399.9	2457.7	2499.6
47.5°	7198.8	2500.6	2170.8	2282.4	2340.2
50°	6244.4	2221.6	1961.6	2104.1	2169.8
52.5°	5244.2	1963.6	1757.4	1920.8	1973.6
55°	4275.9	1731.5	1566.1	1698.6	1759.4
57.5°	3399.2	1510.3	1378.8	1504.3	1629.9
60°	2645.0	1320.0	1202.5	1381.8	1507.3
62.5°	2020.4	1150.7	1037.1	1267.2	1392.7
65°	1529.2	1004.2	906.6	1161.6	1291.1
67.5°	1152.7	877.7	805.0	1084.9	1211.4
70°	865.7	755.2	723.3	1037.1	1150.7
72.5°	639.6	642.6	658.5	995.2	1081.9
75°	472.2	541.0	608.7	945.4	1002.2
77.5°	337.7	448.3	563.9	885.7	905.6
80°	234.1	365.6	517.0	807.0	790.0
82.5°	146.4	292.9	475.2	720.3	673.5
85°	82.7	224.2	445.3	619.7	568.9
87.5°	36.9	167.4	389.5	483.2	451.3
90°	0.0	93.6	258.0	363.6	366.6
92.5°	2.0	77.7	238.1	332.7	342.7
95°	4.0	65.8	227.1	308.8	322.8
97.5°	5.0	57.8	213.2	286.9	298.9
100°	6.0	51.8	196.3	264.0	274.0
102.5°	7.0	47.8	180.3	240.1	248.1
105°	8.0	43.8	165.4	219.2	225.2



TEST NUMBER: P829993

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

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	10.0	33.9	124.5	157.4	162.4
115°	11.0	30.9	111.6	139.5	142.5
117.5°	12.0	26.9	97.6	122.5	123.5
120°	12.0	23.9	83.7	104.6	104.6
122.5°	12.0	19.9	69.7	86.7	85.7
125°	12.0	15.9	56.8	71.7	70.7
127.5°	11.0	13.0	45.8	59.8	58.8
130°	11.0	13.0	36.9	50.8	50.8
132.5°	10.0	12.0	29.9	43.8	43.8
135°	10.0	12.0	24.9	38.9	38.9
137.5°	10.0	13.0	20.9	33.9	33.9
140°	10.0	12.0	17.9	29.9	29.9
142.5°	11.0	12.0	15.9	25.9	25.9
145°	12.0	13.0	14.9	22.9	21.9
147.5°	12.0	13.9	14.9	19.9	18.9
150°	12.0	14.9	14.9	17.9	16.9
152.5°	12.0	14.9	14.9	16.9	15.9
155°	12.0	14.9	15.9	16.9	14.9
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°	8.0	40.8	151.4	196.3	203.2
110°	9.0	36.9	138.5	175.3	182.3



(END OF REPORT)