

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: P829909

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

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P829909  
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-18HE-MFL-UNV-L940-CD  
Description: 18000 LUMEN OHBL HE LED LUMINAIRE WITH 90CRI, 4000K LEDS AND MEDIUM FROSTED LENS  
Light Source: -  
Ballast/Driver: -

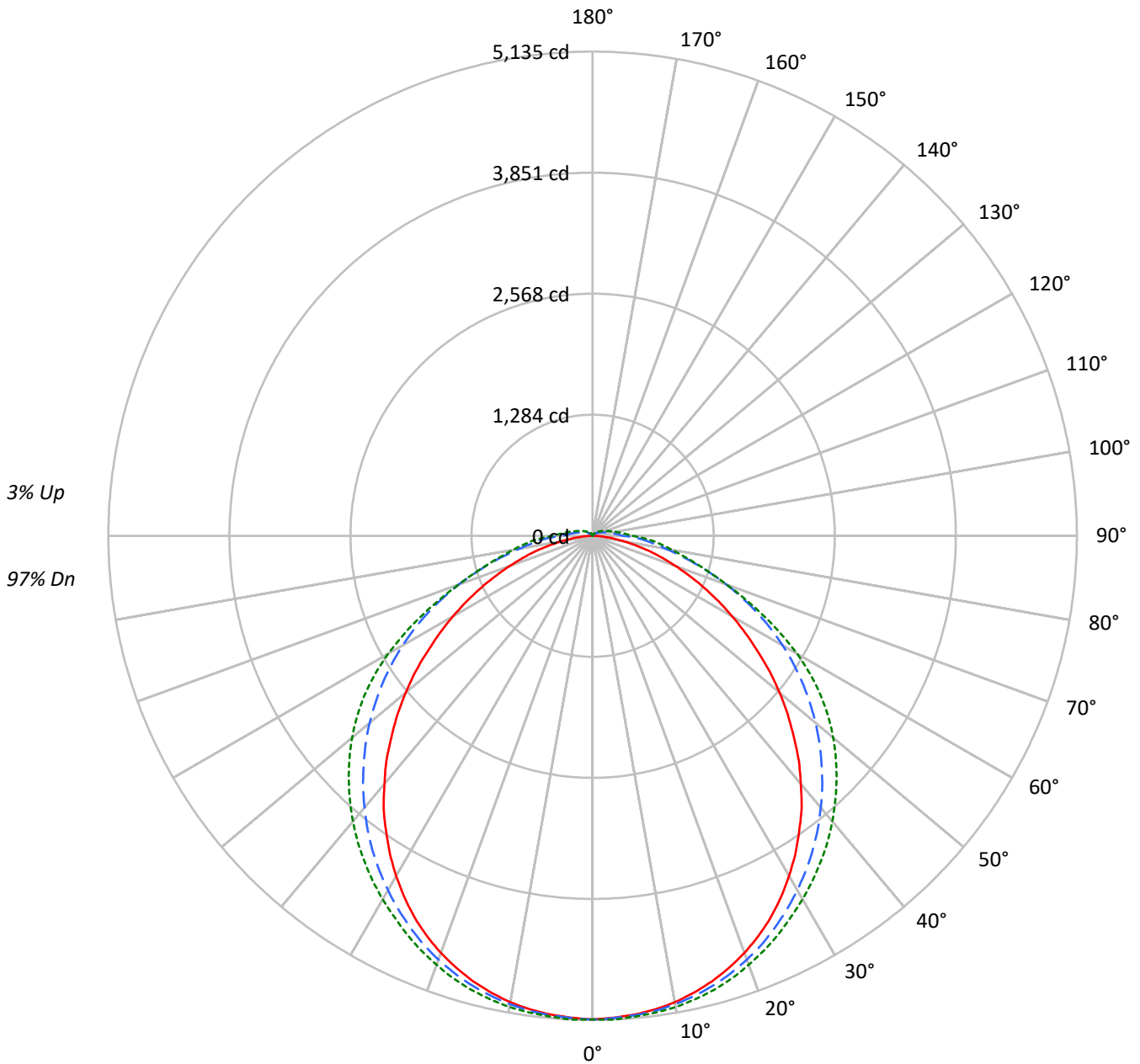
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15354.0 lumens  
Efficiency: N/A  
Efficacy: 149.1 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): 103  
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: P829909

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

### Luminous Intensity Polar Plot





TEST NUMBER: P829909

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

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20				20
RC	80				70				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	99	97
1	107	102	98	94	104	100	96	92	95	91	88	90	88	85	86	84	82	82	82	82	80
2	98	89	82	76	95	87	80	75	83	77	73	79	74	71	75	72	68	68	68	68	66
3	89	78	70	63	86	76	69	62	73	66	61	70	64	59	67	62	58	58	58	58	56
4	81	69	60	53	79	68	59	53	65	57	52	62	56	51	59	54	50	50	50	50	47
5	75	62	53	46	72	60	52	46	58	50	45	56	49	44	53	48	43	43	43	43	41
6	69	56	47	40	67	54	46	40	52	45	39	50	44	39	48	43	38	38	38	38	36
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	44	38	34	34	34	34	32
8	60	46	37	31	58	45	37	31	43	36	31	42	35	31	41	35	30	30	30	30	28
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	37	32	27	27	27	27	25
10	52	39	31	26	51	38	31	26	37	30	25	36	29	25	35	29	25	25	25	25	23

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

	0°	45°	90°
0°	8762	8762	8762
5°	8706	8675	8700
10°	8645	8595	8649
15°	8549	8500	8584
20°	8421	8384	8491
25°	8249	8240	8396
30°	8012	8085	8302
35°	7725	7920	8218
40°	7381	7729	8135
45°	6974	7522	8031
50°	6530	7313	7905
55°	5983	7056	7698
60°	5423	6755	7293
65°	4812	6371	6635
70°	4150	5883	5922
75°	3479	5318	5430
80°	2638	4900	5350
85°	1669	5047	5901



TEST NUMBER: P829909

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

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	486.1	3.2
10°-20°	1394.6	9.1
20°-30°	2109.1	13.7
30°-40°	2532.0	16.5
40°-50°	2615.1	17.0
50°-60°	2352.8	15.3
60°-70°	1772.3	11.5
70°-80°	1070.2	7.0
80°-90°	523.4	3.4
90°-100°	220.3	1.4
100°-110°	125.8	0.8
110°-120°	73.8	0.5
120°-130°	41.7	0.3
130°-140°	22.0	0.1
140°-150°	10.7	0.1
150°-160°	4.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3989.8	26.0
0°-40°	6521.8	42.5
0°-60°	11489.8	74.8
0°-90°	14855.7	96.8
90°-120°	419.9	2.7
90°-150°	494.3	3.2
90°-180°	498.0	3.2
0°-180°	15354.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5130	5130	5130	5130	5130	
5°	5098	5111	5105	5125	5119	484
15°	4892	4916	4938	4980	4985	1379
25°	4467	4516	4580	4652	4663	2055
35°	3819	3909	4069	4192	4218	2388
45°	3015	3166	3432	3619	3658	2327
55°	2136	2357	2714	2919	2954	1915
65°	1303	1570	1921	2016	1994	1295
75°	614	881	1112	1141	1130	655
85°	128	338	558	634	645	148
90°	0	132	319	402	418	8
95°	6	89	239	304	315	5
105°	9	52	138	181	188	9
115°	10	29	85	114	119	10
125°	10	14	52	74	78	9
135°	9	11	26	45	50	7
145°	13	11	13	23	26	7
155°	13	14	13	11	13	4
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P829909

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

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5130.3	5130.3	5130.3	5130.3	5130.3
2.5°	5115.2	5127.7	5120.2	5136.5	5135.3
5°	5097.6	5111.4	5105.1	5125.2	5119.0
7.5°	5067.5	5082.5	5081.3	5103.9	5101.4
10°	5023.5	5039.9	5044.9	5075.0	5075.0
12.5°	4963.3	4984.6	4997.2	5033.6	5034.8
15°	4891.7	4915.6	4938.2	4979.6	4984.6
17.5°	4805.1	4835.2	4866.6	4914.3	4920.6
20°	4707.1	4741.0	4783.7	4833.9	4841.5
22.5°	4594.1	4634.3	4689.6	4748.6	4757.4
25°	4467.3	4516.3	4580.3	4651.9	4663.2
27.5°	4322.9	4379.4	4466.1	4546.4	4556.5
30°	4166.0	4232.5	4340.5	4435.9	4452.3
32.5°	4000.2	4076.8	4209.9	4316.7	4339.3
35°	3819.4	3908.6	4069.3	4192.3	4217.5
37.5°	3641.2	3739.1	3921.1	4061.8	4091.9
40°	3432.7	3554.5	3762.9	3918.6	3955.0
42.5°	3236.9	3368.7	3604.7	3774.2	3809.4
45°	3014.6	3166.5	3431.5	3618.6	3657.5
47.5°	2806.2	2970.7	3264.5	3457.8	3498.0
50°	2586.5	2767.3	3086.2	3288.3	3329.8
52.5°	2366.7	2561.4	2901.6	3111.3	3150.2
55°	2135.7	2356.7	2714.5	2919.2	2954.4
57.5°	1921.0	2154.6	2522.4	2717.1	2738.4
60°	1708.8	1951.2	2326.6	2497.3	2504.9
62.5°	1501.7	1756.5	2125.7	2261.3	2251.2
65°	1303.3	1569.5	1921.0	2016.4	1993.8
67.5°	1112.4	1387.4	1711.3	1772.9	1742.7
70°	931.6	1210.4	1507.9	1539.3	1511.7
72.5°	772.2	1042.1	1302.0	1328.4	1308.3
75°	614.0	881.4	1112.4	1141.3	1130.0
77.5°	465.8	725.7	937.9	975.6	978.1
80°	335.2	583.8	786.0	845.0	852.5
82.5°	221.0	453.3	659.2	734.5	745.8
85°	128.1	337.7	557.5	634.1	645.4
87.5°	55.2	243.6	448.2	517.3	531.1
90°	0.0	131.8	318.9	401.8	418.1
92.5°	3.8	109.2	273.7	349.0	362.9
95°	6.3	89.1	238.6	303.8	315.1
97.5°	7.5	75.3	207.2	264.9	276.2
100°	7.5	65.3	179.5	232.3	242.3
102.5°	7.5	57.8	156.9	203.4	212.2
105°	8.8	51.5	138.1	180.8	188.3



TEST NUMBER: P829909

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

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	10.0	33.9	95.4	128.1	133.1
115°	10.0	28.9	85.4	114.3	119.3
117.5°	11.3	25.1	75.3	103.0	106.7
120°	11.3	21.3	66.5	91.7	96.7
122.5°	11.3	17.6	59.0	82.9	86.6
125°	10.0	13.8	51.5	74.1	77.8
127.5°	8.8	11.3	43.9	66.5	70.3
130°	8.8	10.0	37.7	59.0	62.8
132.5°	8.8	11.3	31.4	51.5	56.5
135°	8.8	11.3	26.4	45.2	50.2
137.5°	8.8	11.3	21.3	38.9	43.9
140°	10.0	11.3	17.6	32.6	37.7
142.5°	11.3	11.3	13.8	27.6	31.4
145°	12.6	11.3	12.6	22.6	26.4
147.5°	12.6	12.6	12.6	17.6	21.3
150°	12.6	13.8	12.6	13.8	17.6
152.5°	12.6	13.8	12.6	11.3	13.8
155°	12.6	13.8	12.6	11.3	12.6
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°	8.8	45.2	121.8	160.7	167.0
110°	8.8	40.2	108.0	143.1	149.4



(END OF REPORT)