

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: P829900

Luminaire Tested: **OHBL-18HE-MFL-UNV-L735-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P829900  
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-L735-CD  
Description: 18000 LUMEN OHBL HE LED LUMINAIRE WITH 70CRI, 3500K LEDS AND MEDIUM FROSTED LENS  
Light Source: -  
Ballast/Driver: -

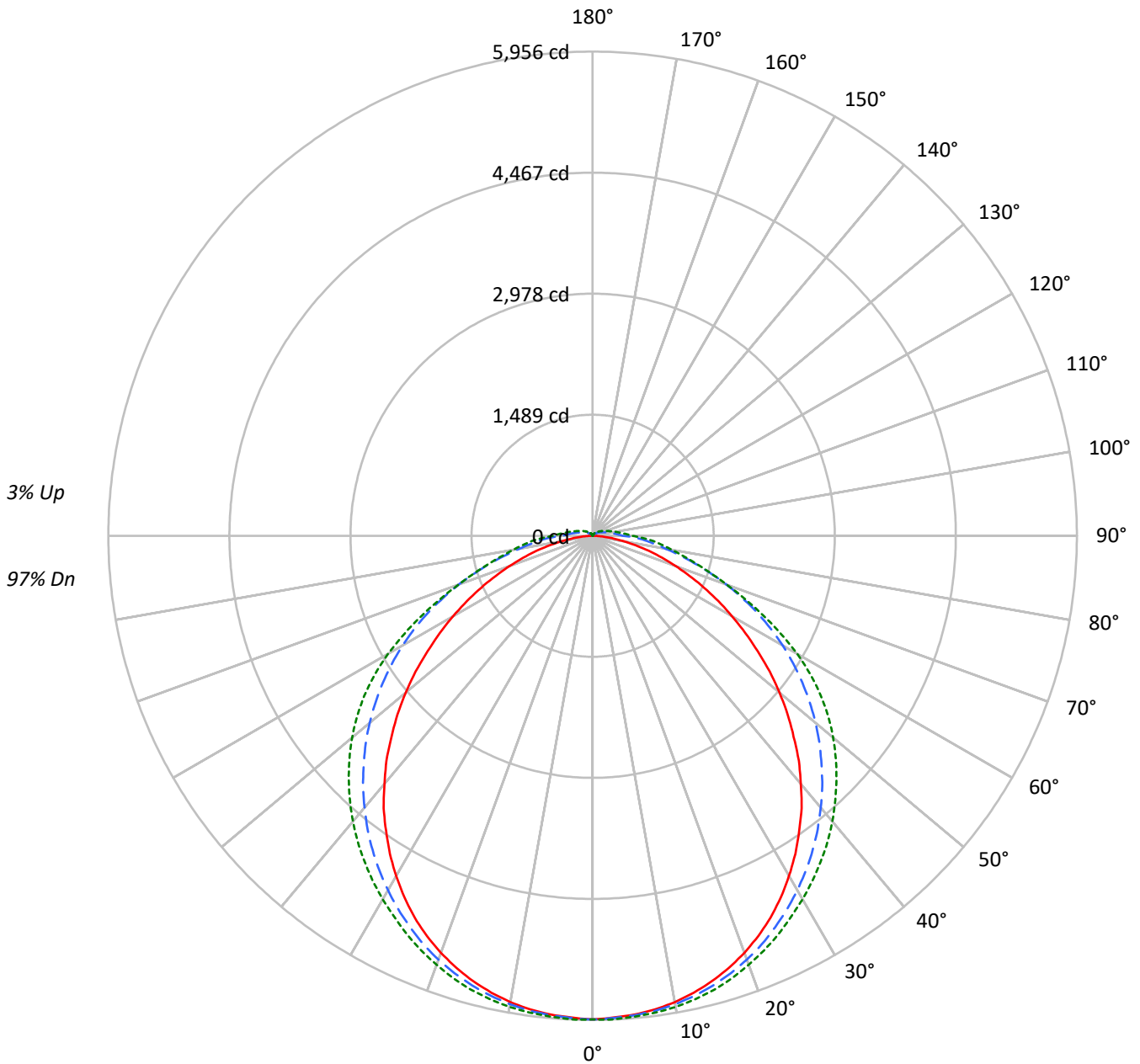
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17807.0 lumens  
Efficiency: N/A  
Efficacy: 172.9 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

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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°	10162	10162	10162
5°	10097	10062	10090
10°	10026	9968	10031
15°	9914	9858	9955
20°	9766	9723	9847
25°	9567	9557	9738
30°	9292	9377	9628
35°	8960	9185	9531
40°	8560	8964	9435
45°	8088	8724	9314
50°	7573	8481	9168
55°	6939	8184	8928
60°	6290	7835	8458
65°	5581	7389	7695
70°	4813	6823	6868
75°	4035	6168	6297
80°	3059	5683	6205
85°	1935	5853	6844



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	563.8	3.2
10°-20°	1617.4	9.1
20°-30°	2446.1	13.7
30°-40°	2936.5	16.5
40°-50°	3032.9	17.0
50°-60°	2728.7	15.3
60°-70°	2055.5	11.5
70°-80°	1241.2	7.0
80°-90°	607.0	3.4
90°-100°	255.5	1.4
100°-110°	145.9	0.8
110°-120°	85.6	0.5
120°-130°	48.4	0.3
130°-140°	25.5	0.1
140°-150°	12.4	0.1
150°-160°	4.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	4627.3	26.0
0°-40°	7563.8	42.5
0°-60°	13325.4	74.8
0°-90°	17229.1	96.8
90°-120°	487.0	2.7
90°-150°	573.3	3.2
90°-180°	578.0	3.2
0°-180°	17807.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5950	5950	5950	5950	5950	
5°	5912	5928	5921	5944	5937	562
15°	5673	5701	5727	5775	5781	1599
25°	5181	5238	5312	5395	5408	2383
35°	4430	4533	4719	4862	4891	2769
45°	3496	3672	3980	4197	4242	2699
55°	2477	2733	3148	3386	3426	2221
65°	1512	1820	2228	2339	2312	1502
75°	712	1022	1290	1324	1310	760
85°	148	392	646	735	748	172
90°	0	153	370	466	485	9
95°	7	103	277	352	366	6
105°	10	60	160	210	218	10
115°	12	34	99	132	138	12
125°	12	16	60	86	90	10
135°	10	13	31	52	58	8
145°	15	13	15	26	31	9
155°	15	16	15	13	15	5
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P829900

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5949.9	5949.9	5949.9	5949.9	5949.9
2.5°	5932.4	5947.0	5938.2	5957.2	5955.7
5°	5912.0	5928.0	5920.8	5944.1	5936.8
7.5°	5877.1	5894.6	5893.1	5919.3	5916.4
10°	5826.1	5845.0	5850.9	5885.8	5885.8
12.5°	5756.2	5781.0	5795.5	5837.8	5839.2
15°	5673.2	5700.9	5727.1	5775.1	5781.0
17.5°	5572.7	5607.7	5644.1	5699.4	5706.7
20°	5459.2	5498.5	5548.0	5606.2	5615.0
22.5°	5328.1	5374.7	5438.8	5507.2	5517.4
25°	5181.0	5237.8	5312.1	5395.1	5408.2
27.5°	5013.6	5079.1	5179.6	5272.8	5284.4
30°	4831.6	4908.7	5034.0	5144.6	5163.6
32.5°	4639.3	4728.2	4882.5	5006.3	5032.5
35°	4429.7	4533.0	4719.4	4862.1	4891.3
37.5°	4222.9	4336.5	4547.6	4710.7	4745.6
40°	3981.2	4122.4	4364.1	4544.7	4586.9
42.5°	3754.0	3906.9	4180.6	4377.2	4418.0
45°	3496.2	3672.4	3979.7	4196.7	4241.8
47.5°	3254.5	3445.3	3786.0	4010.3	4056.9
50°	2999.7	3209.4	3579.3	3813.7	3861.7
52.5°	2744.9	2970.6	3365.2	3608.4	3653.5
55°	2476.9	2733.2	3148.2	3385.6	3426.4
57.5°	2227.9	2498.8	2925.4	3151.1	3175.9
60°	1981.8	2262.9	2698.3	2896.3	2905.0
62.5°	1741.6	2037.2	2465.3	2622.6	2610.9
65°	1511.5	1820.2	2227.9	2338.6	2312.4
67.5°	1290.2	1609.1	1984.8	2056.1	2021.2
70°	1080.5	1403.7	1748.9	1785.3	1753.2
72.5°	895.5	1208.6	1510.0	1540.6	1517.3
75°	712.1	1022.2	1290.2	1323.7	1310.5
77.5°	540.2	841.7	1087.8	1131.4	1134.4
80°	388.8	677.1	911.6	980.0	988.7
82.5°	256.3	525.7	764.5	851.9	865.0
85°	148.5	391.7	646.5	735.4	748.5
87.5°	64.1	282.5	519.9	599.9	616.0
90°	0.0	152.9	369.9	466.0	484.9
92.5°	4.4	126.7	317.4	404.8	420.8
95°	7.3	103.4	276.7	352.4	365.5
97.5°	8.7	87.4	240.3	307.3	320.4
100°	8.7	75.7	208.2	269.4	281.0
102.5°	8.7	67.0	182.0	235.9	246.1
105°	10.2	59.7	160.2	209.7	218.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	11.6	39.3	110.7	148.5	154.4
115°	11.6	33.5	99.0	132.5	138.3
117.5°	13.1	29.1	87.4	119.4	123.8
120°	13.1	24.8	77.2	106.3	112.1
122.5°	13.1	20.4	68.4	96.1	100.5
125°	11.6	16.0	59.7	85.9	90.3
127.5°	10.2	13.1	51.0	77.2	81.5
130°	10.2	11.6	43.7	68.4	72.8
132.5°	10.2	13.1	36.4	59.7	65.5
135°	10.2	13.1	30.6	52.4	58.2
137.5°	10.2	13.1	24.8	45.1	51.0
140°	11.6	13.1	20.4	37.9	43.7
142.5°	13.1	13.1	16.0	32.0	36.4
145°	14.6	13.1	14.6	26.2	30.6
147.5°	14.6	14.6	14.6	20.4	24.8
150°	14.6	16.0	14.6	16.0	20.4
152.5°	14.6	16.0	14.6	13.1	16.0
155°	14.6	16.0	14.6	13.1	14.6
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°	10.2	52.4	141.2	186.4	193.7
110°	10.2	46.6	125.2	166.0	173.3



(END OF REPORT)