

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: P829908

Luminaire Tested: **OHBL-18HE-MFL-UNV-L935-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829908
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-L935-CD
Description: 18000 LUMEN OHBL HE LED LUMINAIRE WITH 90CRI, 3500K LEDS AND MEDIUM FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

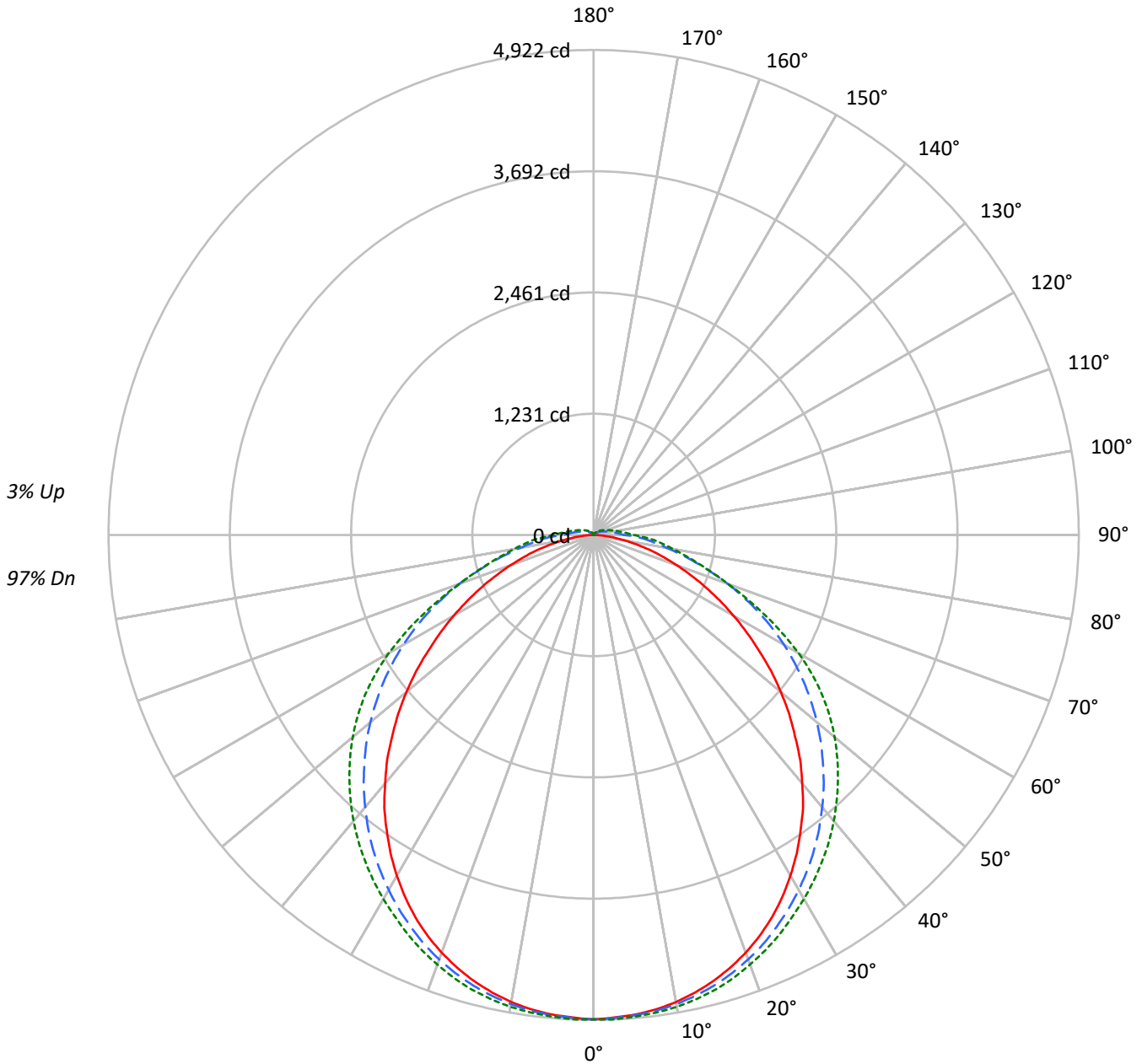
Lumens per Lamp: N/A
Luminaire Lumens: 14716.0 lumens
Efficiency: N/A
Efficacy: 142.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 103
Input Voltage (V): NR
Input Current (A_{in}): 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: P829908

CATALOG NUMBER: OHBL-18HE-MFL-UNV-L935-CD

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8398	8398	8398
5°	8345	8315	8339
10°	8286	8238	8290
15°	8193	8147	8227
20°	8071	8036	8138
25°	7907	7898	8048
30°	7679	7749	7956
35°	7404	7591	7877
40°	7074	7408	7797
45°	6685	7210	7698
50°	6258	7009	7577
55°	5734	6763	7378
60°	5198	6475	6990
65°	4612	6107	6359
70°	3977	5639	5676
75°	3335	5098	5205
80°	2528	4696	5128
85°	1599	4837	5655



TEST NUMBER: P829908

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	465.9	3.2
10°-20°	1336.7	9.1
20°-30°	2021.5	13.7
30°-40°	2426.8	16.5
40°-50°	2506.5	17.0
50°-60°	2255.0	15.3
60°-70°	1698.7	11.5
70°-80°	1025.7	7.0
80°-90°	501.7	3.4
90°-100°	211.2	1.4
100°-110°	120.5	0.8
110°-120°	70.8	0.5
120°-130°	40.0	0.3
130°-140°	21.1	0.1
140°-150°	10.2	0.1
150°-160°	3.8	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3824.0	26.0
0°-40°	6250.8	42.5
0°-60°	11012.3	74.8
0°-90°	14238.4	96.8
90°-120°	402.4	2.7
90°-150°	473.7	3.2
90°-180°	478.0	3.2
0°-180°	14716.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4917	4917	4917	4917	4917	
5°	4886	4899	4893	4912	4906	464
15°	4688	4711	4733	4773	4778	1322
25°	4282	4329	4390	4459	4469	1969
35°	3661	3746	3900	4018	4042	2288
45°	2889	3035	3289	3468	3506	2231
55°	2047	2259	2602	2798	2832	1835
65°	1249	1504	1841	1933	1911	1241
75°	588	845	1066	1094	1083	628
85°	123	324	534	608	618	142
90°	0	126	306	385	401	8
95°	6	85	229	291	302	5
105°	8	49	132	173	180	8
115°	10	28	82	110	114	10
125°	10	13	49	71	75	9
135°	8	11	25	43	48	7
145°	12	11	12	22	25	7
155°	12	13	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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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4917.1	4917.1	4917.1	4917.1	4917.1
2.5°	4902.6	4914.7	4907.5	4923.1	4921.9
5°	4885.8	4899.0	4893.0	4912.3	4906.3
7.5°	4856.9	4871.4	4870.2	4891.8	4889.4
10°	4814.8	4830.4	4835.3	4864.1	4864.1
12.5°	4757.0	4777.5	4789.5	4824.4	4825.6
15°	4688.4	4711.3	4733.0	4772.7	4777.5
17.5°	4605.4	4634.3	4664.4	4710.1	4716.1
20°	4511.5	4544.0	4584.9	4633.1	4640.3
22.5°	4403.2	4441.7	4494.7	4551.3	4559.7
25°	4281.7	4328.6	4390.0	4458.6	4469.4
27.5°	4143.3	4197.5	4280.5	4357.5	4367.1
30°	3992.9	4056.7	4160.1	4251.6	4267.2
32.5°	3834.0	3907.4	4035.0	4137.3	4158.9
35°	3660.7	3746.2	3900.2	4018.1	4042.2
37.5°	3489.9	3583.7	3758.2	3893.0	3921.9
40°	3290.1	3406.8	3606.6	3755.8	3790.7
42.5°	3102.4	3228.7	3455.0	3617.4	3651.1
45°	2889.4	3035.0	3288.9	3468.2	3505.5
47.5°	2689.6	2847.2	3128.8	3314.2	3352.7
50°	2479.0	2652.3	2958.0	3151.7	3191.4
52.5°	2268.4	2454.9	2781.1	2982.0	3019.3
55°	2047.0	2258.8	2601.7	2797.9	2831.6
57.5°	1841.2	2065.0	2417.6	2604.2	2624.6
60°	1637.8	1870.1	2229.9	2393.6	2400.8
62.5°	1439.3	1683.6	2037.4	2167.3	2157.7
65°	1249.1	1504.2	1841.2	1932.7	1911.0
67.5°	1066.2	1329.8	1640.2	1699.2	1670.3
70°	892.9	1160.1	1445.3	1475.4	1448.9
72.5°	740.1	998.8	1247.9	1273.2	1253.9
75°	588.5	844.8	1066.2	1093.9	1083.1
77.5°	446.5	695.6	898.9	935.0	937.4
80°	321.3	559.6	753.3	809.9	817.1
82.5°	211.8	434.4	631.8	704.0	714.8
85°	122.7	323.7	534.3	607.7	618.5
87.5°	52.9	233.5	429.6	495.8	509.0
90°	0.0	126.4	305.7	385.1	400.7
92.5°	3.6	104.7	262.3	334.5	347.8
95°	6.0	85.4	228.6	291.2	302.1
97.5°	7.2	72.2	198.6	253.9	264.7
100°	7.2	62.6	172.1	222.6	232.3
102.5°	7.2	55.4	150.4	195.0	203.4
105°	8.4	49.3	132.4	173.3	180.5



TEST NUMBER: P829908

CATALOG NUMBER: OHBL-18HE-MFL-UNV-L935-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	9.6	32.5	91.5	122.7	127.6
115°	9.6	27.7	81.8	109.5	114.3
117.5°	10.8	24.1	72.2	98.7	102.3
120°	10.8	20.5	63.8	87.8	92.7
122.5°	10.8	16.8	56.6	79.4	83.0
125°	9.6	13.2	49.3	71.0	74.6
127.5°	8.4	10.8	42.1	63.8	67.4
130°	8.4	9.6	36.1	56.6	60.2
132.5°	8.4	10.8	30.1	49.3	54.2
135°	8.4	10.8	25.3	43.3	48.1
137.5°	8.4	10.8	20.5	37.3	42.1
140°	9.6	10.8	16.8	31.3	36.1
142.5°	10.8	10.8	13.2	26.5	30.1
145°	12.0	10.8	12.0	21.7	25.3
147.5°	12.0	12.0	12.0	16.8	20.5
150°	12.0	13.2	12.0	13.2	16.8
152.5°	12.0	13.2	12.0	10.8	13.2
155°	12.0	13.2	12.0	10.8	12.0
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°	8.4	43.3	116.7	154.0	160.1
110°	8.4	38.5	103.5	137.2	143.2



(END OF REPORT)