

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: P829944

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829944
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-18HE-W-UNV-L935-CD
Description: 18000 LUMEN OHBL HE LED LUMINAIRE WITH 90CRI, 3500K LEDS AND WIDE LENS
Light Source: -
Ballast/Driver: -

Summary

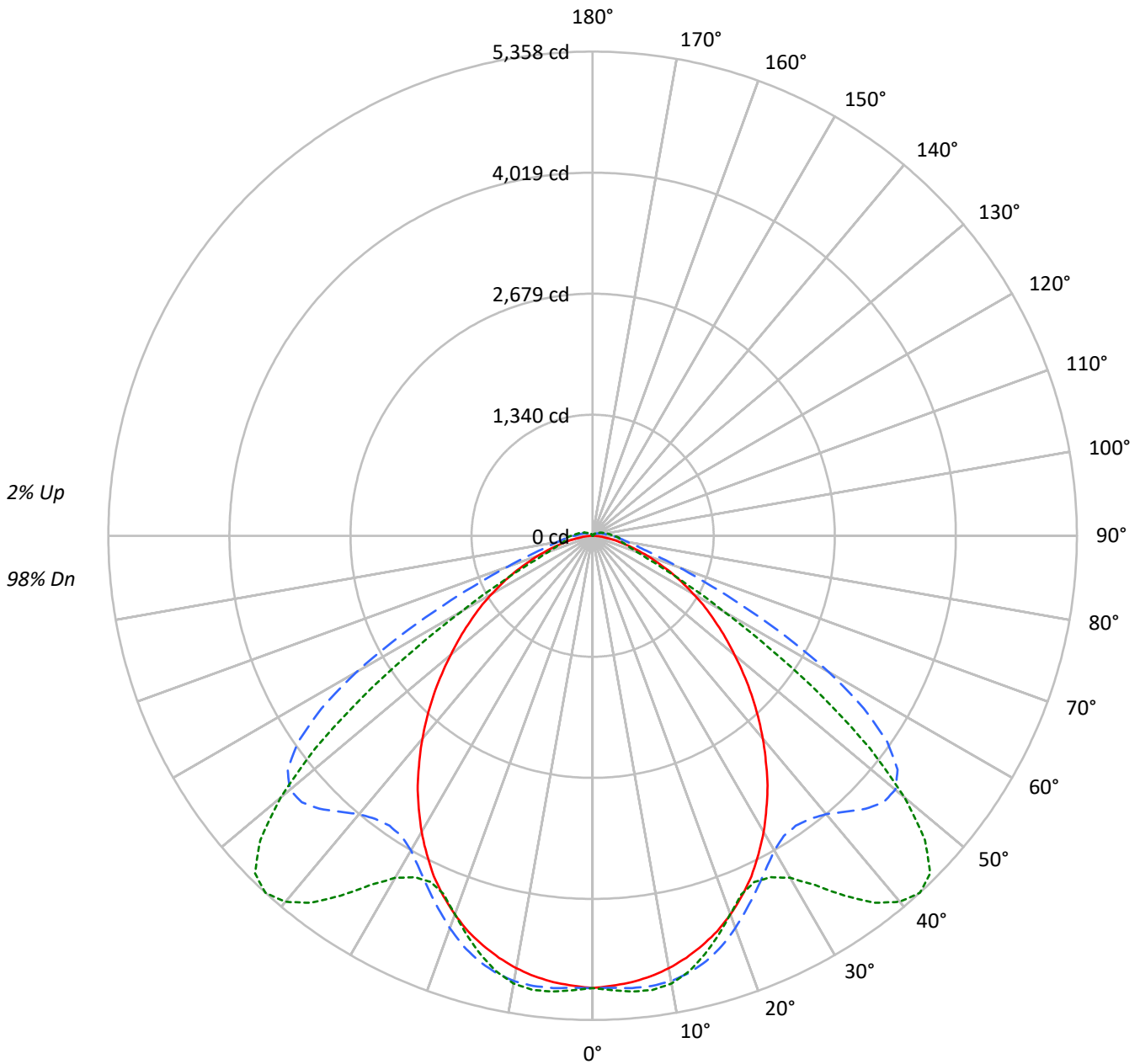
Lumens per Lamp: N/A
Luminaire Lumens: 14987.1 lumens
Efficiency: N/A
Efficacy: 145.5 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

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

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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	119	119	119	119	116	116	116	116	110	110	110	105	105	105	100	100	100				98																
1	109	104	100	96	106	102	98	95	97	94	91	93	90	88	89	87	85				83																
2	99	91	85	79	96	89	83	78	85	80	76	82	77	74	78	75	72				70																
3	90	80	72	66	88	78	71	65	75	69	64	72	67	62	69	65	61				59																
4	83	71	62	56	80	69	61	55	67	60	54	64	58	53	62	57	52				50																
5	76	63	54	48	74	62	54	47	60	52	47	57	51	46	55	50	45				43																
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	50	44	40				38																
7	65	51	43	36	63	50	42	36	49	41	36	47	40	35	45	40	35				33																
8	60	47	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31				29																
9	56	43	34	29	55	42	34	29	41	34	28	39	33	28	38	32	28				26																
10	52	39	31	26	51	39	31	26	38	31	26	36	30	26	35	30	25				24																

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8549	8549	8549
5°	8469	8537	8605
10°	8363	8524	8573
15°	8200	8383	8257
20°	7977	8095	7812
25°	7678	7746	7614
30°	7280	7487	8147
35°	6826	7625	9474
40°	6299	8258	10876
45°	5749	9367	11598
50°	5175	10358	10694
55°	4635	10345	8081
60°	4085	8751	4874
65°	3505	6042	2900
70°	2848	3906	2043
75°	2166	2798	1827
80°	1555	2457	1939
85°	1055	2699	2696



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	478.3	3.2
10°-20°	1354.5	9.0
20°-30°	1982.0	13.2
30°-40°	2574.1	17.2
40°-50°	3143.3	21.0
50°-60°	2768.2	18.5
60°-70°	1442.5	9.6
70°-80°	618.6	4.1
80°-90°	297.1	2.0
90°-100°	139.6	0.9
100°-110°	86.7	0.6
110°-120°	51.3	0.3
120°-130°	27.9	0.2
130°-140°	14.0	0.1
140°-150°	6.7	0.0
150°-160°	2.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3814.8	25.5
0°-40°	6388.9	42.6
0°-60°	12300.3	82.1
0°-90°	14658.5	97.8
90°-120°	277.6	1.9
90°-150°	326.3	2.2
90°-180°	329.0	2.2
0°-180°	14987.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5005	5005	5005	5005	5005	
5°	4959	4997	5024	5068	5063	470
15°	4692	4824	4870	4834	4795	1321
25°	4158	4380	4306	4225	4229	1908
35°	3375	3731	3918	4569	4862	2103
45°	2485	3126	4273	5174	5282	1916
55°	1654	2739	3980	3489	3102	1485
65°	949	1897	1822	1013	872	939
75°	382	888	585	401	380	417
85°	81	316	298	292	295	90
90°	1	114	196	225	230	6
95°	2	67	157	184	189	2
105°	4	38	102	122	124	5
115°	6	22	63	77	79	7
125°	8	11	37	48	49	6
135°	6	6	17	29	30	5
145°	9	6	8	14	16	5
155°	9	9	6	6	6	3
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5005.4	5005.4	5005.4	5005.4	5005.4
2.5°	4983.8	5005.4	5006.5	5036.7	5033.5
5°	4958.9	4996.7	5023.7	5068.0	5062.6
7.5°	4917.9	4977.3	5024.8	5073.4	5069.1
10°	4859.6	4940.6	5003.2	5043.2	5030.2
12.5°	4784.0	4890.9	4952.5	4961.1	4936.3
15°	4692.2	4824.0	4870.4	4833.7	4794.8
17.5°	4588.5	4743.0	4759.2	4679.3	4630.7
20°	4458.9	4635.0	4618.8	4508.6	4454.6
22.5°	4315.3	4516.2	4464.3	4348.8	4297.0
25°	4157.7	4380.1	4305.6	4224.6	4228.9
27.5°	3973.0	4225.7	4153.3	4190.1	4259.2
30°	3785.1	4063.7	4019.4	4233.2	4369.3
32.5°	3578.8	3897.4	3937.4	4359.6	4582.1
35°	3374.7	3731.1	3917.9	4569.1	4861.8
37.5°	3149.0	3562.6	3949.2	4811.0	5117.7
40°	2929.8	3398.5	4020.5	5028.1	5287.2
42.5°	2706.3	3251.6	4140.4	5156.6	5358.5
45°	2484.9	3126.3	4273.2	5173.9	5281.8
47.5°	2263.5	3020.5	4365.0	5036.7	4987.0
50°	2049.7	2926.6	4371.5	4707.3	4504.3
52.5°	1849.9	2840.2	4252.7	4182.5	3867.2
55°	1654.4	2738.7	3979.5	3489.2	3101.5
57.5°	1476.2	2598.3	3558.3	2744.1	2320.7
60°	1287.3	2408.2	3014.0	2007.6	1673.9
62.5°	1113.4	2171.7	2403.9	1397.4	1203.0
65°	949.2	1897.4	1821.8	1013.0	871.5
67.5°	775.4	1613.4	1344.5	738.7	647.9
70°	639.3	1349.9	1001.1	574.5	521.6
72.5°	500.0	1099.3	748.4	466.5	437.4
75°	382.3	887.7	585.3	400.6	380.1
77.5°	281.9	701.9	470.8	354.2	334.8
80°	197.6	552.9	394.2	316.4	308.9
82.5°	132.8	427.6	335.9	301.3	302.4
85°	81.0	316.4	298.1	291.6	294.8
87.5°	38.9	224.6	255.9	265.7	268.9
90°	1.1	114.5	196.5	224.6	230.0
92.5°	0.0	87.5	172.8	200.9	206.3
95°	2.2	67.0	156.6	183.6	189.0
97.5°	2.2	55.1	140.4	168.5	171.7
100°	3.2	47.5	125.3	152.3	155.5
102.5°	3.2	42.1	112.3	136.1	138.2
105°	4.3	37.8	101.5	122.0	124.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	6.5	25.9	71.3	86.4	88.6
115°	6.5	21.6	62.6	76.7	78.8
117.5°	7.6	19.4	55.1	68.0	69.1
120°	7.6	16.2	47.5	60.5	61.6
122.5°	7.6	13.0	42.1	54.0	55.1
125°	7.6	10.8	36.7	47.5	48.6
127.5°	6.5	7.6	31.3	42.1	43.2
130°	6.5	6.5	25.9	36.7	38.9
132.5°	6.5	6.5	21.6	32.4	34.6
135°	6.5	6.5	17.3	29.2	30.2
137.5°	6.5	6.5	14.0	24.8	27.0
140°	6.5	6.5	10.8	21.6	22.7
142.5°	7.6	6.5	9.7	18.4	19.4
145°	8.6	6.5	7.6	14.0	16.2
147.5°	8.6	7.6	7.6	11.9	13.0
150°	8.6	8.6	6.5	8.6	10.8
152.5°	8.6	8.6	6.5	6.5	8.6
155°	8.6	8.6	6.5	6.5	6.5
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°	5.4	33.5	90.7	109.1	111.2
110°	5.4	29.2	79.9	97.2	99.4



(END OF REPORT)