

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: P829882

Luminaire Tested: **OHBL-18HE-A-UNV-L850-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829882
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-200-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-18HE-A-UNV-L850-CD
Description: 18000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 5000K LEDS AND AISLE LENS
Light Source: -
Ballast/Driver: -

Summary

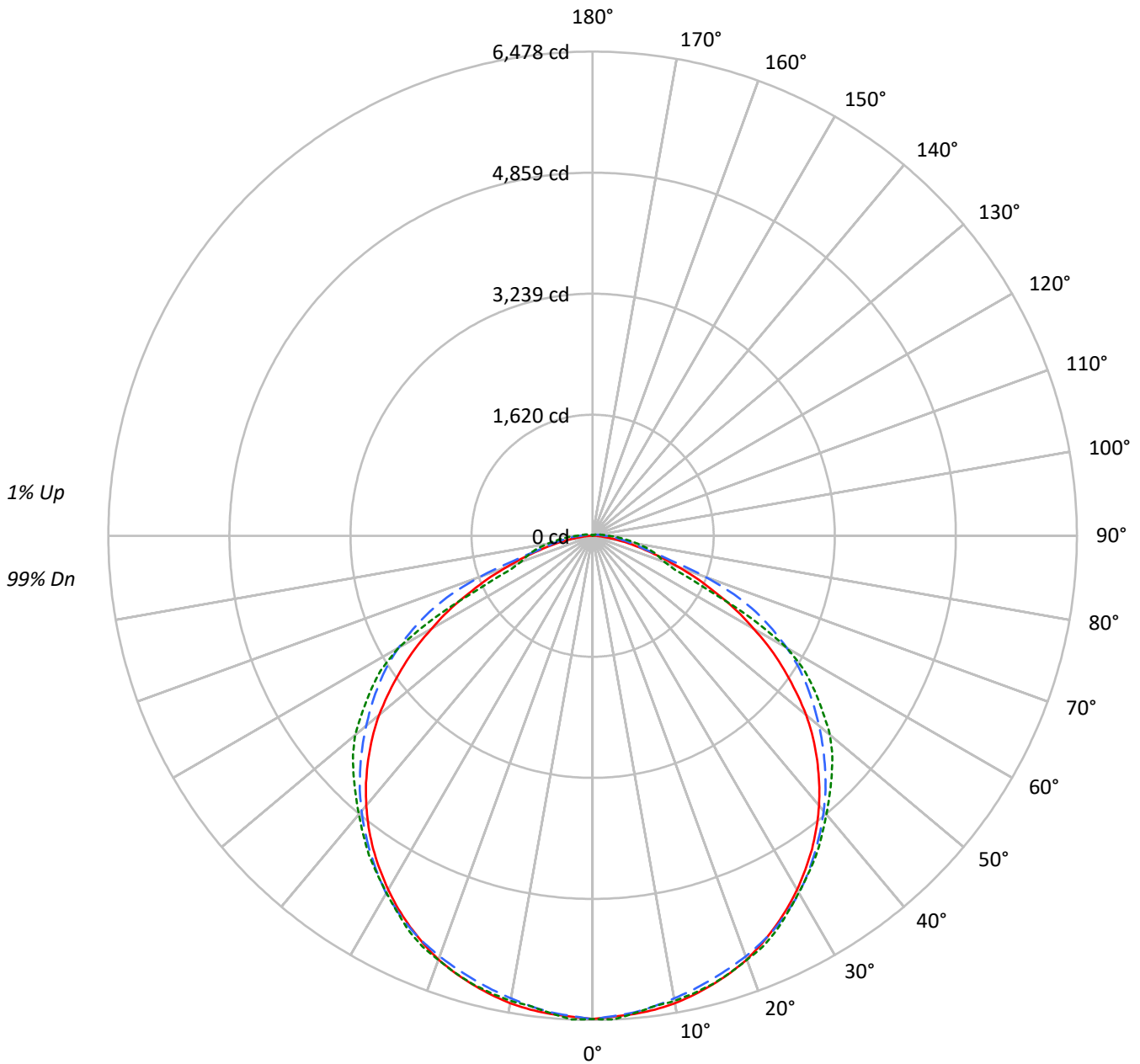
Lumens per Lamp: N/A
Luminaire Lumens: 18273.0 lumens
Efficiency: N/A
Efficacy: 177.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

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					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	119	119	119	119	116	116	116	116	110	110	110	106	106	106	101	101	101					99				
1	109	104	100	96	106	102	98	95	97	94	91	93	91	88	90	87	86					83				
2	99	91	84	79	96	89	83	78	85	80	76	82	78	74	79	75	72					70				
3	91	80	72	66	88	79	71	65	75	69	64	72	67	63	70	65	61					59				
4	83	71	62	56	81	70	62	55	67	60	54	65	59	54	62	57	53					51				
5	76	64	55	48	74	62	54	48	60	53	47	58	52	46	56	50	46					44				
6	70	57	48	42	68	56	48	42	54	47	41	52	46	41	51	45	40					38				
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36					34				
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	42	36	32					30				
9	57	43	35	30	55	43	35	29	41	34	29	40	34	29	39	33	29					27				
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	36	30	26					24				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11042	11042	11042
5°	10970	10877	10898
10°	10930	10707	10770
15°	10860	10579	10691
20°	10791	10497	10589
25°	10661	10413	10488
30°	10519	10285	10282
35°	10350	10084	10164
40°	10130	9877	10006
45°	9825	9637	9931
50°	9411	9365	9841
55°	8754	9095	9460
60°	7894	8704	8731
65°	6772	7987	5522
70°	5455	6222	3991
75°	4090	3683	4034
80°	2847	3048	3825
85°	1620	2767	3539



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	609.6	3.3
10°-20°	1748.0	9.6
20°-30°	2669.8	14.6
30°-40°	3239.4	17.7
40°-50°	3395.1	18.6
50°-60°	3076.5	16.8
60°-70°	2062.7	11.3
70°-80°	926.2	5.1
80°-90°	336.1	1.8
90°-100°	101.2	0.6
100°-110°	47.7	0.3
110°-120°	23.9	0.1
120°-130°	13.2	0.1
130°-140°	9.1	0.0
140°-150°	6.1	0.0
150°-160°	4.5	0.0
160°-170°	2.9	0.0
170°-180°	0.9	0.0
0°-30°	5027.4	27.5
0°-40°	8266.7	45.2
0°-60°	14738.4	80.7
0°-90°	18063.4	98.9
90°-120°	172.8	0.9
90°-150°	201.2	1.1
90°-180°	210.0	1.1
0°-180°	18273.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6465	6465	6465	6465	6465	
5°	6423	6445	6400	6420	6412	611
15°	6214	6190	6146	6200	6208	1755
25°	5773	5748	5788	5842	5825	2661
35°	5117	5129	5182	5237	5216	3198
45°	4247	4316	4396	4508	4522	3271
55°	3125	3276	3499	3639	3631	2789
65°	1834	2121	2408	2032	1659	1827
75°	722	1047	770	788	839	789
85°	124	238	306	369	387	152
90°	1	80	158	198	208	7
95°	1	50	108	132	136	1
105°	4	22	53	64	67	4
115°	8	11	27	35	36	7
125°	6	8	17	20	21	7
135°	8	9	10	15	16	7
145°	8	9	9	10	11	6
155°	9	10	10	10	9	4
165°	10	10	10	10	10	3
175°	10	10	9	8	8	1
180°	9	9	9	9	9	



TEST NUMBER: P829882

CATALOG NUMBER: OHBL-18HE-A-UNV-L850-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6465.0	6465.0	6465.0	6465.0	6465.0
2.5°	6438.8	6465.9	6432.3	6468.7	6478.1
5°	6422.9	6445.4	6400.5	6420.1	6411.7
7.5°	6394.0	6401.4	6348.2	6364.0	6347.2
10°	6351.0	6347.2	6284.6	6315.4	6319.2
12.5°	6287.4	6276.2	6220.1	6266.8	6267.8
15°	6214.5	6190.2	6146.2	6200.5	6207.9
17.5°	6130.3	6098.6	6069.6	6139.7	6128.5
20°	6032.2	5994.8	5989.2	6065.8	6037.8
22.5°	5910.7	5881.7	5894.8	5967.7	5949.9
25°	5773.3	5748.0	5788.2	5841.5	5824.7
27.5°	5628.4	5613.4	5659.2	5700.3	5667.6
30°	5469.5	5461.0	5521.8	5555.5	5514.3
32.5°	5296.5	5299.3	5357.3	5403.1	5364.8
35°	5117.0	5129.2	5181.5	5236.7	5216.1
37.5°	4919.8	4946.9	4999.3	5061.9	5040.4
40°	4711.3	4750.6	4808.6	4884.3	4864.6
42.5°	4486.1	4535.6	4610.4	4694.5	4692.6
45°	4246.7	4315.9	4396.3	4508.5	4522.5
47.5°	3998.1	4075.7	4177.6	4327.1	4348.6
50°	3727.9	3825.2	3952.3	4131.8	4144.9
52.5°	3426.9	3559.7	3727.9	3899.9	3884.0
55°	3125.0	3275.5	3498.9	3639.1	3630.7
57.5°	2824.0	2993.2	3264.3	3364.3	3363.4
60°	2487.5	2701.5	2997.9	3073.6	2998.8
62.5°	2176.2	2406.1	2713.7	2658.5	2402.4
65°	1834.1	2121.0	2408.0	2032.2	1659.3
67.5°	1530.3	1829.4	2045.3	1391.9	1191.9
70°	1224.6	1554.6	1594.8	1032.9	1018.9
72.5°	953.5	1305.0	1100.2	884.3	929.2
75°	721.7	1047.0	770.3	788.0	839.4
77.5°	526.3	803.9	599.2	690.8	732.9
80°	361.8	569.3	488.9	580.5	609.5
82.5°	227.2	375.8	391.7	467.4	497.3
85°	124.3	238.4	305.7	369.2	387.0
87.5°	51.4	144.0	233.7	285.1	300.1
90°	0.9	79.5	158.0	198.2	207.5
92.5°	0.9	60.8	129.0	159.8	166.4
95°	0.9	49.5	108.4	131.8	135.5
97.5°	1.9	39.3	90.7	109.4	113.1
100°	2.8	32.7	75.7	91.6	94.4
102.5°	3.7	26.2	63.6	76.7	79.5
105°	3.7	21.5	53.3	64.5	67.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	6.5	13.1	31.8	40.2	42.1
115°	7.5	11.2	27.1	34.6	36.5
117.5°	7.5	9.3	23.4	29.0	30.8
120°	7.5	8.4	20.6	25.2	26.2
122.5°	7.5	7.5	17.8	22.4	23.4
125°	6.5	7.5	16.8	19.6	20.6
127.5°	7.5	7.5	15.0	17.8	18.7
130°	7.5	8.4	13.1	16.8	16.8
132.5°	8.4	9.3	12.2	15.9	15.9
135°	8.4	9.3	10.3	15.0	15.9
137.5°	9.3	9.3	9.3	14.0	15.0
140°	9.3	9.3	8.4	12.2	13.1
142.5°	8.4	9.3	8.4	11.2	12.2
145°	8.4	9.3	9.3	10.3	11.2
147.5°	9.3	9.3	9.3	9.3	10.3
150°	9.3	9.3	9.3	9.3	9.3
152.5°	9.3	9.3	9.3	9.3	9.3
155°	9.3	10.3	10.3	10.3	9.3
157.5°	9.3	10.3	10.3	10.3	10.3
160°	9.3	10.3	10.3	10.3	10.3
162.5°	10.3	10.3	10.3	10.3	10.3
165°	10.3	10.3	10.3	10.3	10.3
167.5°	10.3	11.2	10.3	10.3	10.3
170°	10.3	10.3	10.3	9.3	9.3
172.5°	10.3	10.3	10.3	9.3	9.3
175°	10.3	10.3	9.3	8.4	8.4
177.5°	11.2	10.3	9.3	8.4	7.5
180°	9.3	9.3	9.3	9.3	9.3



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







107.5°	4.7	17.8	45.8	55.2	57.0
110°	5.6	15.0	38.3	46.7	48.6



(END OF REPORT)