

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: P829918

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

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P829918
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-18HE-N-UNV-L850-CD
Description: 18000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 5000K LEDS AND NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

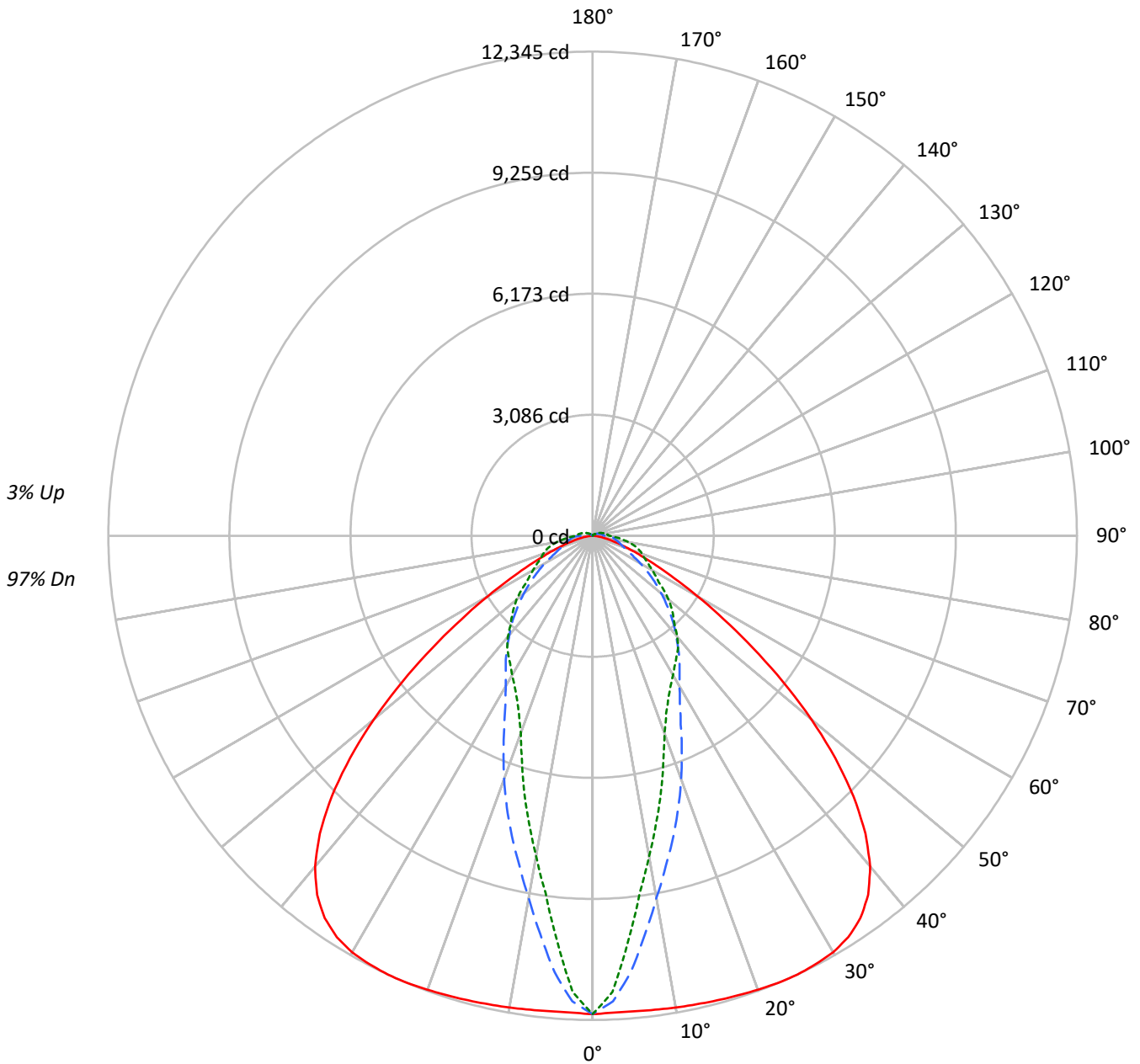
Lumens per Lamp: N/A
Luminaire Lumens: 17999.0 lumens
Efficiency: N/A
Efficacy: 174.7 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

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: P829918

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

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	109	104	100	97	106	102	98	95	97	94	91	92	90	88	88	86	85	85	85	82																	
2	100	93	86	81	97	90	85	80	86	82	78	83	79	75	79	76	73	73	73	71																	
3	92	83	75	69	90	81	74	69	78	72	67	74	70	65	72	67	64	64	64	62																	
4	85	74	66	60	83	73	66	60	70	64	59	67	62	57	65	60	56	56	56	54																	
5	79	67	59	53	77	66	59	53	64	57	52	62	56	51	59	54	50	50	50	48																	
6	74	62	53	47	72	60	53	47	58	52	46	56	50	46	55	49	45	45	45	43																	
7	69	56	48	43	67	55	48	42	54	47	42	52	46	41	50	45	41	41	41	39																	
8	65	52	44	39	63	51	44	39	50	43	38	48	42	38	47	41	37	37	37	35																	
9	61	48	41	35	59	47	40	35	46	40	35	45	39	35	44	38	34	34	34	32																	
10	57	45	37	33	56	44	37	32	43	37	32	42	36	32	41	35	32	32	32	30																	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20829	20829	20829
5°	20787	18969	17636
10°	21022	15978	14142
15°	21432	13665	11607
20°	22034	11554	9388
25°	22796	9564	8226
30°	23584	8239	7642
35°	24075	7509	7280
40°	23663	6783	6907
45°	21769	6129	6395
50°	18366	5415	6002
55°	13955	4743	5341
60°	9780	4068	5113
65°	6578	3503	5006
70°	4493	3288	5252
75°	3118	3391	5611
80°	2147	3755	5776
85°	1255	4697	6060



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1026.6	5.7
10°-20°	2415.0	13.4
20°-30°	3027.2	16.8
30°-40°	3212.2	17.8
40°-50°	2904.3	16.1
50°-60°	2105.8	11.7
60°-70°	1321.5	7.3
70°-80°	874.5	4.9
80°-90°	503.8	2.8
90°-100°	244.1	1.4
100°-110°	168.5	0.9
110°-120°	104.0	0.6
120°-130°	50.4	0.3
130°-140°	23.2	0.1
140°-150°	12.6	0.1
150°-160°	5.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	6468.7	35.9
0°-40°	9680.9	53.8
0°-60°	14691.0	81.6
0°-90°	17390.8	96.6
90°-120°	516.5	2.9
90°-150°	602.7	3.3
90°-180°	608.0	3.4
0°-180°	17999.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12195	12195	12195	12195	12195	
5°	12171	11859	11162	10645	10376	###
15°	12264	9996	7939	7060	6740	3478
25°	12345	7729	5316	4718	4568	5703
35°	11903	5138	3858	3737	3736	7399
45°	9410	3255	2796	2863	2912	7168
55°	4982	2017	1825	1979	2050	4501
65°	1782	1170	1056	1353	1504	1854
75°	550	630	709	1102	1168	613
85°	96	261	519	722	663	115
90°	0	109	301	424	427	6
95°	5	77	265	360	376	4
105°	9	51	193	255	262	9
115°	13	36	130	162	166	12
125°	14	19	66	84	82	12
135°	12	14	29	45	45	9
145°	14	15	17	27	26	8
155°	14	17	19	20	17	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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CATALOG NUMBER: OHBL-18HE-N-UNV-L850-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12195.3	12195.3	12195.3	12195.3	12195.3
2.5°	12169.7	12100.1	11883.1	11750.7	11639.3
5°	12170.9	11858.7	11162.3	10644.6	10376.5
7.5°	12188.3	11494.2	10239.5	9483.9	9189.1
10°	12215.0	11042.7	9378.3	8572.8	8297.7
12.5°	12234.7	10534.3	8620.4	7792.8	7491.0
15°	12263.8	9995.8	7939.1	7060.4	6740.1
17.5°	12290.5	9488.6	7265.9	6347.8	5991.4
20°	12317.2	8941.9	6592.7	5646.7	5353.1
22.5°	12342.7	8365.0	5935.7	5102.4	4901.6
25°	12345.0	7729.0	5315.9	4718.2	4568.4
27.5°	12314.8	7069.7	4813.3	4396.7	4303.8
30°	12262.6	6430.2	4423.4	4164.5	4098.4
32.5°	12132.6	5777.9	4121.6	3940.5	3902.2
35°	11902.8	5138.3	3858.1	3737.4	3736.2
37.5°	11540.7	4570.8	3572.6	3551.7	3577.2
40°	11005.6	4074.0	3302.1	3357.9	3357.9
42.5°	10291.8	3642.2	3057.2	3114.1	3099.0
45°	9409.6	3254.6	2796.1	2863.4	2912.2
47.5°	8387.1	2913.3	2529.1	2659.1	2726.4
50°	7275.2	2588.3	2285.4	2451.4	2528.0
52.5°	6109.8	2287.7	2047.4	2237.8	2299.3
55°	4981.6	2017.3	1824.6	1979.0	2049.8
57.5°	3960.2	1759.6	1606.4	1752.6	1898.9
60°	3081.6	1537.9	1400.9	1609.9	1756.1
62.5°	2353.9	1340.6	1208.3	1476.4	1622.6
65°	1781.6	1170.0	1056.2	1353.4	1504.2
67.5°	1342.9	1022.6	937.8	1264.0	1411.4
70°	1008.6	879.8	842.7	1208.3	1340.6
72.5°	745.2	748.6	767.2	1159.5	1260.5
75°	550.2	630.3	709.2	1101.5	1167.6
77.5°	393.5	522.3	656.9	1031.8	1055.1
80°	272.8	426.0	602.4	940.2	920.4
82.5°	170.6	341.2	553.6	839.2	784.6
85°	96.3	261.2	518.8	721.9	662.7
87.5°	42.9	195.0	453.8	562.9	525.8
90°	0.0	109.1	300.6	423.6	427.1
92.5°	2.3	90.5	277.4	387.7	399.3
95°	4.6	76.6	264.6	359.8	376.1
97.5°	5.8	67.3	248.4	334.3	348.2
100°	7.0	60.4	228.7	307.6	319.2
102.5°	8.1	55.7	210.1	279.7	289.0
105°	9.3	51.1	192.7	255.3	262.3



TEST NUMBER: P829918

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	11.6	39.5	145.1	183.4	189.2
115°	12.8	36.0	130.0	162.5	166.0
117.5°	13.9	31.3	113.7	142.8	143.9
120°	13.9	27.9	97.5	121.9	121.9
122.5°	13.9	23.2	81.2	101.0	99.8
125°	13.9	18.6	66.2	83.6	82.4
127.5°	12.8	15.1	53.4	69.6	68.5
130°	12.8	15.1	42.9	59.2	59.2
132.5°	11.6	13.9	34.8	51.1	51.1
135°	11.6	13.9	29.0	45.3	45.3
137.5°	11.6	15.1	24.4	39.5	39.5
140°	11.6	13.9	20.9	34.8	34.8
142.5°	12.8	13.9	18.6	30.2	30.2
145°	13.9	15.1	17.4	26.7	25.5
147.5°	13.9	16.2	17.4	23.2	22.1
150°	13.9	17.4	17.4	20.9	19.7
152.5°	13.9	17.4	17.4	19.7	18.6
155°	13.9	17.4	18.6	19.7	17.4
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°	9.3	47.6	176.4	228.7	236.8
110°	10.4	42.9	161.3	204.3	212.4



(END OF REPORT)