

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: P829920

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829920
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-L935-CD
Description: 18000 LUMEN OHBL HE LED LUMINAIRE WITH 90CRI, 3500K LEDS AND NARROW LENS
Light Source: -
Ballast/Driver: -

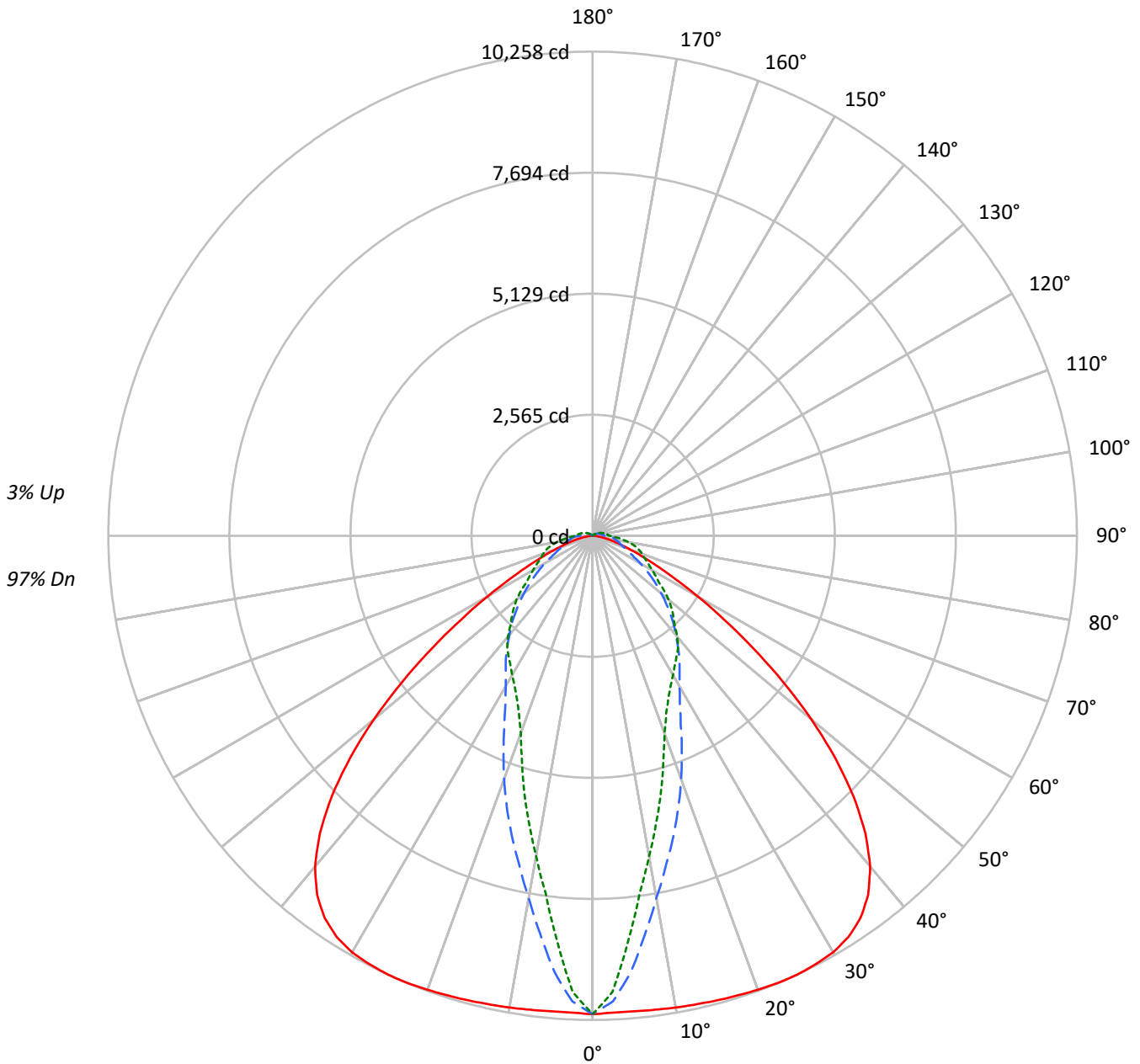
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14956.0 lumens
Efficiency: N/A
Efficacy: 145.2 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

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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	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°	17308	17308	17308
5°	17273	15762	14655
10°	17468	13277	11751
15°	17809	11355	9645
20°	18309	9601	7801
25°	18942	7947	6835
30°	19597	6846	6350
35°	20005	6239	6050
40°	19662	5636	5739
45°	18089	5093	5313
50°	15261	4500	4987
55°	11596	3941	4438
60°	8126	3380	4249
65°	5466	2911	4159
70°	3733	2732	4364
75°	2590	2817	4662
80°	1783	3121	4800
85°	1042	3903	5035



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	853.0	5.7
10°-20°	2006.7	13.4
20°-30°	2515.4	16.8
30°-40°	2669.1	17.8
40°-50°	2413.3	16.1
50°-60°	1749.8	11.7
60°-70°	1098.1	7.3
70°-80°	726.7	4.9
80°-90°	418.6	2.8
90°-100°	202.8	1.4
100°-110°	140.0	0.9
110°-120°	86.4	0.6
120°-130°	41.8	0.3
130°-140°	19.2	0.1
140°-150°	10.5	0.1
150°-160°	4.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	5375.1	35.9
0°-40°	8044.2	53.8
0°-60°	12207.3	81.6
0°-90°	14450.7	96.6
90°-120°	429.2	2.9
90°-150°	500.8	3.3
90°-180°	505.0	3.4
0°-180°	14956.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10134	10134	10134	10134	10134	
5°	10113	9854	9275	8845	8622	967
15°	10190	8306	6597	5867	5601	2890
25°	10258	6422	4417	3920	3796	4739
35°	9890	4270	3206	3106	3105	6148
45°	7819	2704	2323	2379	2420	5956
55°	4139	1676	1516	1644	1703	3740
65°	1480	972	878	1124	1250	1541
75°	457	524	589	915	970	510
85°	80	217	431	600	551	96
90°	0	91	250	352	355	5
95°	4	64	220	299	312	3
105°	8	42	160	212	218	8
115°	11	30	108	135	138	10
125°	12	15	55	69	68	10
135°	10	12	24	38	38	8
145°	12	12	14	22	21	7
155°	12	14	15	16	14	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°	10133.5	10133.5	10133.5	10133.5	10133.5
2.5°	10112.3	10054.4	9874.1	9764.1	9671.5
5°	10113.2	9853.8	9275.1	8845.0	8622.2
7.5°	10127.7	9551.0	8508.4	7880.5	7635.6
10°	10149.9	9175.8	7792.8	7123.4	6894.9
12.5°	10166.3	8753.4	7163.0	6475.3	6224.6
15°	10190.4	8305.9	6596.8	5866.8	5600.6
17.5°	10212.6	7884.4	6037.5	5274.6	4978.5
20°	10234.8	7430.1	5478.1	4692.1	4448.0
22.5°	10256.0	6950.8	4932.2	4239.7	4072.9
25°	10257.9	6422.3	4417.2	3920.5	3796.1
27.5°	10232.8	5874.5	3999.6	3653.3	3576.2
30°	10189.4	5343.1	3675.5	3460.5	3405.5
32.5°	10081.4	4801.0	3424.8	3274.3	3242.5
35°	9890.4	4269.6	3205.8	3105.5	3104.6
37.5°	9589.5	3798.0	2968.6	2951.2	2972.4
40°	9144.9	3385.2	2743.9	2790.2	2790.2
42.5°	8551.8	3026.4	2540.4	2587.6	2575.1
45°	7818.8	2704.3	2323.4	2379.3	2419.8
47.5°	6969.1	2420.8	2101.5	2209.6	2265.5
50°	6045.2	2150.7	1899.0	2036.9	2100.6
52.5°	5076.9	1900.9	1701.3	1859.5	1910.6
55°	4139.4	1676.2	1516.1	1644.4	1703.2
57.5°	3290.7	1462.1	1334.8	1456.3	1577.8
60°	2560.6	1277.9	1164.1	1337.7	1459.2
62.5°	1955.9	1113.9	1004.0	1226.8	1348.3
65°	1480.4	972.2	877.7	1124.5	1249.9
67.5°	1115.9	849.7	779.3	1050.3	1172.8
70°	838.1	731.1	700.2	1004.0	1113.9
72.5°	619.2	622.1	637.5	963.5	1047.4
75°	457.1	523.7	589.3	915.3	970.2
77.5°	326.9	434.0	545.9	857.4	876.7
80°	226.6	354.0	500.6	781.2	764.8
82.5°	141.8	283.5	460.0	697.3	652.0
85°	80.0	217.0	431.1	599.9	550.7
87.5°	35.7	162.0	377.1	467.8	436.9
90°	0.0	90.7	249.8	352.0	354.9
92.5°	1.9	75.2	230.5	322.1	331.8
95°	3.9	63.7	219.9	299.0	312.5
97.5°	4.8	55.9	206.4	277.8	289.3
100°	5.8	50.2	190.0	255.6	265.2
102.5°	6.8	46.3	174.6	232.4	240.1
105°	7.7	42.4	160.1	212.2	218.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	9.6	32.8	120.6	152.4	157.2
115°	10.6	29.9	108.0	135.0	137.9
117.5°	11.6	26.0	94.5	118.6	119.6
120°	11.6	23.1	81.0	101.3	101.3
122.5°	11.6	19.3	67.5	83.9	82.9
125°	11.6	15.4	55.0	69.4	68.5
127.5°	10.6	12.5	44.4	57.9	56.9
130°	10.6	12.5	35.7	49.2	49.2
132.5°	9.6	11.6	28.9	42.4	42.4
135°	9.6	11.6	24.1	37.6	37.6
137.5°	9.6	12.5	20.3	32.8	32.8
140°	9.6	11.6	17.4	28.9	28.9
142.5°	10.6	11.6	15.4	25.1	25.1
145°	11.6	12.5	14.5	22.2	21.2
147.5°	11.6	13.5	14.5	19.3	18.3
150°	11.6	14.5	14.5	17.4	16.4
152.5°	11.6	14.5	14.5	16.4	15.4
155°	11.6	14.5	15.4	16.4	14.5
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°	7.7	39.5	146.6	190.0	196.7
110°	8.7	35.7	134.1	169.7	176.5



(END OF REPORT)