

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: P830194

Luminaire Tested: **OHBL-30HE-MFL-UNV-L850-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830194
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-30HE-MFL-UNV-L850-CD
Description: 30000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 5000K LEDS AND MEDIUM FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

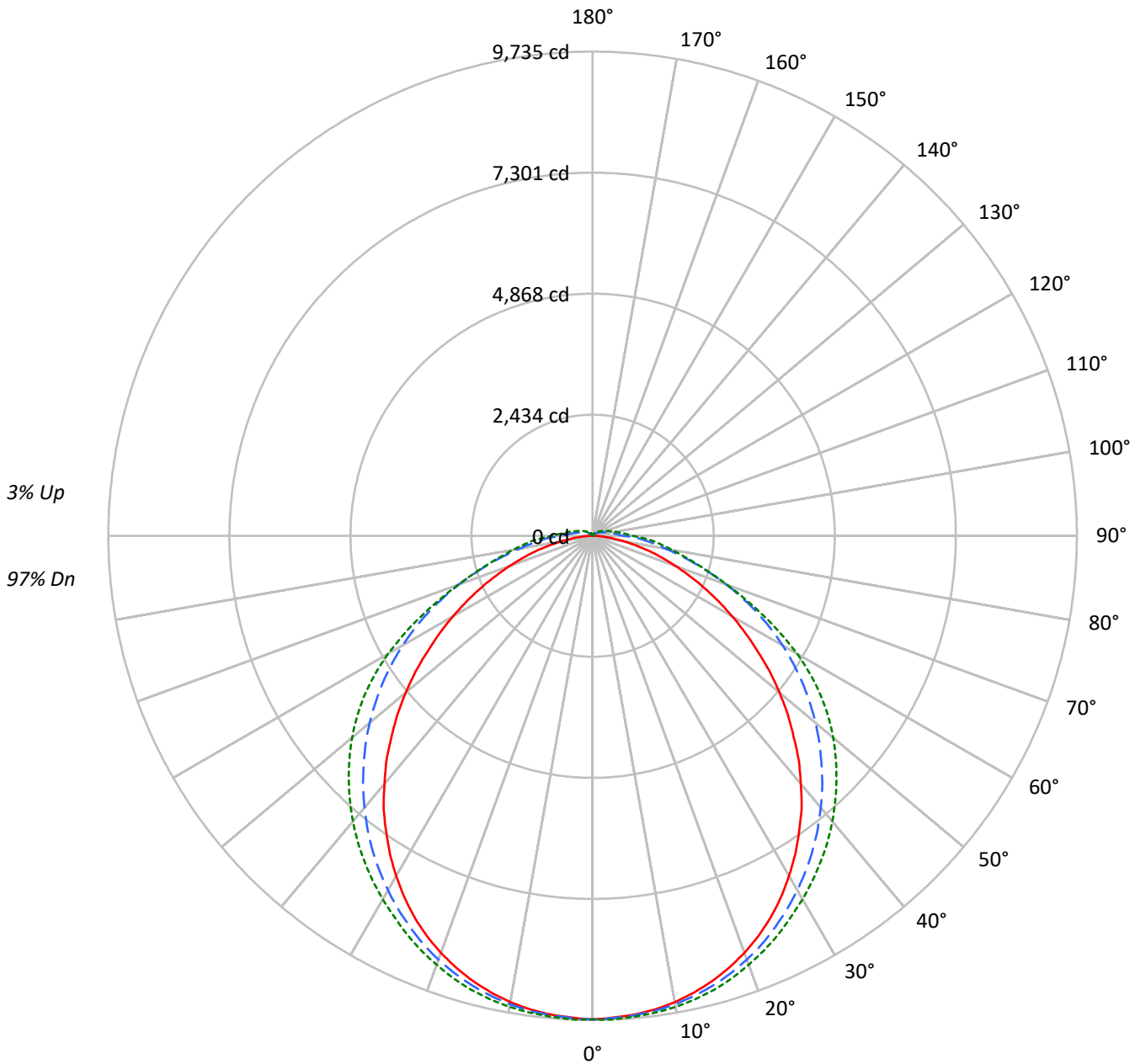
Lumens per Lamp: N/A
Luminaire Lumens: 29106.0 lumens
Efficiency: N/A
Efficacy: 177.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 163.8
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	107	102	98	94	104	100	96	92	95	91	88	90	88	85	86	84	82	82	82	80																	
2	98	89	82	76	95	87	80	75	83	77	73	79	74	71	75	72	68	68	68	66																	
3	89	78	70	63	86	76	69	62	73	66	61	70	64	59	67	62	58	58	58	56																	
4	81	69	60	53	79	68	59	53	65	57	52	62	56	51	59	54	50	50	50	47																	
5	75	62	53	46	72	60	52	46	58	50	45	56	49	44	53	48	43	43	43	41																	
6	69	56	47	40	67	54	46	40	52	45	39	50	44	39	48	43	38	38	38	36																	
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	44	38	34	34	34	32																	
8	60	46	37	31	58	45	37	31	43	36	31	42	35	31	41	35	30	30	30	28																	
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	37	32	27	27	27	25																	
10	52	39	31	26	51	38	31	26	37	30	25	36	29	25	35	29	25	25	25	23																	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15380	15380	15380
5°	15282	15235	15281
10°	15175	15100	15201
15°	15005	14940	15096
20°	14780	14743	14942
25°	14480	14498	14787
30°	14064	14231	14630
35°	13560	13949	14495
40°	12955	13622	14362
45°	12241	13266	14192
50°	11461	12907	13986
55°	10502	12467	13638
60°	9519	11949	12943
65°	8447	11287	11800
70°	7284	10444	10563
75°	6107	9470	9727
80°	4630	8765	9650
85°	2930	9111	10784



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	921.5	3.2
10°-20°	2643.7	9.1
20°-30°	3998.1	13.7
30°-40°	4799.8	16.5
40°-50°	4957.4	17.0
50°-60°	4460.1	15.3
60°-70°	3359.7	11.5
70°-80°	2028.7	7.0
80°-90°	992.2	3.4
90°-100°	417.6	1.4
100°-110°	238.4	0.8
110°-120°	139.9	0.5
120°-130°	79.1	0.3
130°-140°	41.7	0.1
140°-150°	20.3	0.1
150°-160°	7.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	7563.4	26.0
0°-40°	12363.2	42.5
0°-60°	21780.7	74.8
0°-90°	28161.4	96.8
90°-120°	796.0	2.7
90°-150°	937.1	3.2
90°-180°	945.0	3.2
0°-180°	29106.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9725	9725	9725	9725	9725	
5°	9663	9690	9678	9716	9704	918
15°	9273	9318	9361	9440	9449	2614
25°	8468	8561	8683	8818	8840	3895
35°	7240	7409	7714	7947	7995	4526
45°	5715	6003	6505	6860	6933	4412
55°	4049	4468	5146	5534	5600	3630
65°	2471	2975	3642	3822	3780	2455
75°	1164	1671	2109	2164	2142	1242
85°	243	640	1057	1202	1223	281
90°	0	250	605	762	793	15
95°	12	169	452	576	597	10
105°	17	98	262	343	357	17
115°	19	55	162	217	226	19
125°	19	26	98	140	148	17
135°	17	21	50	86	95	13
145°	24	21	24	43	50	14
155°	24	26	24	21	24	7
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°	9725.2	9725.2	9725.2	9725.2	9725.2
2.5°	9696.7	9720.5	9706.2	9737.1	9734.8
5°	9663.4	9689.5	9677.6	9715.7	9703.8
7.5°	9606.2	9634.8	9632.4	9675.3	9670.5
10°	9522.9	9553.9	9563.4	9620.5	9620.5
12.5°	9408.7	9449.1	9472.9	9542.0	9544.4
15°	9273.0	9318.2	9361.1	9439.6	9449.1
17.5°	9108.8	9165.9	9225.4	9315.9	9327.8
20°	8923.1	8987.4	9068.3	9163.5	9177.8
22.5°	8708.9	8785.1	8889.8	9001.7	9018.3
25°	8468.5	8561.4	8682.7	8818.4	8839.8
27.5°	8194.8	8301.9	8466.1	8618.5	8637.5
30°	7897.3	8023.4	8228.1	8409.0	8440.0
32.5°	7583.1	7728.3	7980.6	8182.9	8225.8
35°	7240.4	7409.4	7714.0	7947.3	7994.9
37.5°	6902.4	7088.0	7433.2	7699.7	7756.9
40°	6507.3	6738.2	7133.3	7428.4	7497.4
42.5°	6136.0	6385.9	6833.4	7154.7	7221.3
45°	5714.7	6002.7	6504.9	6859.6	6933.3
47.5°	5319.6	5631.4	6188.4	6554.9	6631.1
50°	4903.1	5245.8	5850.4	6233.6	6312.1
52.5°	4486.6	4855.5	5500.5	5898.0	5971.8
55°	4048.6	4467.5	5145.9	5533.8	5600.5
57.5°	3641.6	4084.3	4781.7	5150.6	5191.1
60°	3239.4	3698.7	4410.4	4734.1	4748.4
62.5°	2846.6	3329.8	4029.6	4286.6	4267.6
65°	2470.6	2975.2	3641.6	3822.5	3779.7
67.5°	2108.8	2630.1	3244.1	3360.8	3303.6
70°	1766.1	2294.5	2858.5	2918.0	2865.7
72.5°	1463.8	1975.5	2468.2	2518.2	2480.1
75°	1163.9	1670.9	2108.8	2163.5	2142.1
77.5°	883.0	1375.7	1778.0	1849.4	1854.1
80°	635.5	1106.8	1490.0	1601.8	1616.1
82.5°	418.9	859.2	1249.6	1392.4	1413.8
85°	242.8	640.3	1056.8	1202.0	1223.4
87.5°	104.7	461.7	849.7	980.6	1006.8
90°	0.0	249.9	604.6	761.6	792.6
92.5°	7.1	207.1	518.9	661.7	687.9
95°	11.9	169.0	452.2	576.0	597.4
97.5°	14.3	142.8	392.7	502.2	523.6
100°	14.3	123.8	340.4	440.3	459.4
102.5°	14.3	109.5	297.5	385.6	402.2
105°	16.7	97.6	261.8	342.7	357.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	19.0	64.3	180.9	242.8	252.3
115°	19.0	54.7	161.8	216.6	226.1
117.5°	21.4	47.6	142.8	195.2	202.3
120°	21.4	40.5	126.1	173.8	183.3
122.5°	21.4	33.3	111.9	157.1	164.2
125°	19.0	26.2	97.6	140.4	147.6
127.5°	16.7	21.4	83.3	126.1	133.3
130°	16.7	19.0	71.4	111.9	119.0
132.5°	16.7	21.4	59.5	97.6	107.1
135°	16.7	21.4	50.0	85.7	95.2
137.5°	16.7	21.4	40.5	73.8	83.3
140°	19.0	21.4	33.3	61.9	71.4
142.5°	21.4	21.4	26.2	52.4	59.5
145°	23.8	21.4	23.8	42.8	50.0
147.5°	23.8	23.8	23.8	33.3	40.5
150°	23.8	26.2	23.8	26.2	33.3
152.5°	23.8	26.2	23.8	21.4	26.2
155°	23.8	26.2	23.8	21.4	23.8
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°	16.7	85.7	230.9	304.7	316.6
110°	16.7	76.2	204.7	271.3	283.2



(END OF REPORT)