

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: P830169

Luminaire Tested: **OHBL-30HE-A-UNV-L840-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830169
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-30HE-A-UNV-L840-CD
Description: 30000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND AISLE LENS
Light Source: -
Ballast/Driver: -

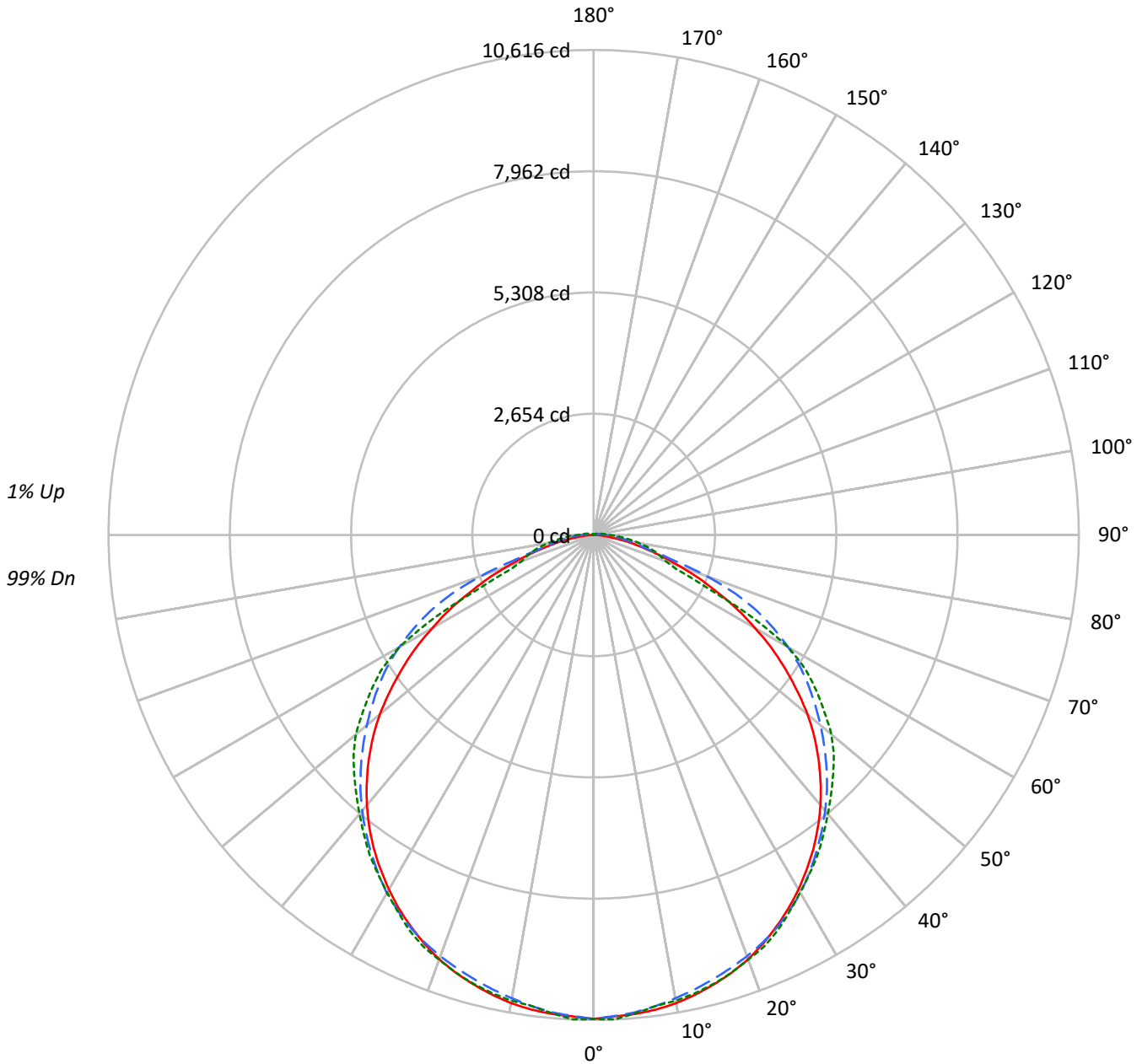
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29944.0 lumens
Efficiency: N/A
Efficacy: 182.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
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	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°	16754	16754	16754
5°	16645	16511	16546
10°	16584	16261	16362
15°	16479	16074	16253
20°	16373	15956	16109
25°	16176	15837	15966
30°	15961	15651	15664
35°	15704	15354	15497
40°	15370	15047	15271
45°	14907	14692	15170
50°	14280	14289	15050
55°	13283	13891	14488
60°	11978	13310	13394
65°	10275	12231	8489
70°	8276	9548	6155
75°	6205	5668	6246
80°	4319	4713	5964
85°	2458	4318	5590



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	998.9	3.3
10°-20°	2864.5	9.6
20°-30°	4375.0	14.6
30°-40°	5308.3	17.7
40°-50°	5563.6	18.6
50°-60°	5041.5	16.8
60°-70°	3380.1	11.3
70°-80°	1517.8	5.1
80°-90°	550.8	1.8
90°-100°	165.8	0.6
100°-110°	78.2	0.3
110°-120°	39.2	0.1
120°-130°	21.6	0.1
130°-140°	14.9	0.0
140°-150°	10.0	0.0
150°-160°	7.4	0.0
160°-170°	4.8	0.0
170°-180°	1.5	0.0
0°-30°	8238.4	27.5
0°-40°	13546.7	45.2
0°-60°	24151.8	80.7
0°-90°	29600.6	98.9
90°-120°	283.2	0.9
90°-150°	329.7	1.1
90°-180°	343.0	1.1
0°-180°	29944.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10594	10594	10594	10594	10594	
5°	10525	10562	10488	10521	10507	###
15°	10184	10144	10072	10161	10173	2875
25°	9461	9419	9485	9572	9545	4361
35°	8385	8405	8491	8581	8548	5241
45°	6959	7072	7204	7388	7411	5361
55°	5121	5368	5734	5964	5950	4571
65°	3006	3476	3946	3330	2719	2995
75°	1183	1716	1262	1291	1376	1292
85°	204	391	501	605	634	249
90°	2	130	259	325	340	12
95°	2	81	178	216	222	2
105°	6	35	87	106	110	7
115°	12	18	44	57	60	11
125°	11	12	28	32	34	11
135°	14	15	17	24	26	11
145°	14	15	15	17	18	9
155°	15	17	17	17	15	7
165°	17	17	17	17	17	5
175°	17	17	15	14	14	2
180°	15	15	15	15	15	



TEST NUMBER: P830169

CATALOG NUMBER: OHBL-30HE-A-UNV-L840-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10594.2	10594.2	10594.2	10594.2	10594.2
2.5°	10551.3	10595.7	10540.6	10600.3	10615.7
5°	10525.3	10562.0	10488.5	10520.7	10506.9
7.5°	10477.8	10490.0	10402.7	10428.8	10401.2
10°	10407.3	10401.2	10298.6	10349.1	10355.2
12.5°	10303.2	10284.8	10192.9	10269.5	10271.0
15°	10183.7	10143.9	10071.9	10160.7	10173.0
17.5°	10045.8	9993.7	9946.2	10061.1	10042.7
20°	9885.0	9823.7	9814.5	9940.1	9894.2
22.5°	9685.8	9638.3	9659.8	9779.3	9750.2
25°	9460.7	9419.3	9485.2	9572.5	9544.9
27.5°	9223.2	9198.7	9273.8	9341.2	9287.6
30°	8962.8	8949.0	9048.6	9103.7	9036.3
32.5°	8679.4	8684.0	8779.0	8854.0	8791.2
35°	8385.3	8405.2	8491.0	8581.4	8547.7
37.5°	8062.1	8106.5	8192.3	8294.9	8259.7
40°	7720.5	7784.8	7879.8	8003.9	7971.7
42.5°	7351.3	7432.5	7555.0	7692.9	7689.8
45°	6959.2	7072.5	7204.2	7388.1	7411.0
47.5°	6551.7	6678.8	6845.8	7090.9	7126.1
50°	6109.0	6268.3	6476.6	6770.7	6792.2
52.5°	5615.7	5833.3	6109.0	6390.8	6364.8
55°	5120.9	5367.6	5733.7	5963.5	5949.7
57.5°	4627.7	4905.0	5349.2	5513.1	5511.6
60°	4076.2	4427.0	4912.6	5036.7	4914.1
62.5°	3566.1	3943.0	4446.9	4356.6	3936.8
65°	3005.5	3475.7	3946.0	3330.2	2719.0
67.5°	2507.6	2997.8	3351.7	2280.9	1953.1
70°	2006.7	2547.5	2613.3	1692.7	1669.7
72.5°	1562.5	2138.5	1803.0	1449.1	1522.6
75°	1182.6	1715.7	1262.2	1291.3	1375.6
77.5°	862.4	1317.4	981.9	1132.0	1201.0
80°	592.8	932.9	801.2	951.3	998.8
82.5°	372.2	615.8	641.8	765.9	814.9
85°	203.7	390.6	500.9	605.1	634.2
87.5°	84.3	235.9	383.0	467.2	491.7
90°	1.5	130.2	258.9	324.8	340.1
92.5°	1.5	99.6	211.4	261.9	272.7
95°	1.5	81.2	177.7	216.0	222.1
97.5°	3.1	64.3	148.6	179.2	185.4
100°	4.6	53.6	124.1	150.1	154.7
102.5°	6.1	42.9	104.2	125.6	130.2
105°	6.1	35.2	87.3	105.7	110.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	10.7	21.4	52.1	65.9	68.9
115°	12.3	18.4	44.4	56.7	59.7
117.5°	12.3	15.3	38.3	47.5	50.6
120°	12.3	13.8	33.7	41.4	42.9
122.5°	12.3	12.3	29.1	36.8	38.3
125°	10.7	12.3	27.6	32.2	33.7
127.5°	12.3	12.3	24.5	29.1	30.6
130°	12.3	13.8	21.4	27.6	27.6
132.5°	13.8	15.3	19.9	26.0	26.0
135°	13.8	15.3	16.9	24.5	26.0
137.5°	15.3	15.3	15.3	23.0	24.5
140°	15.3	15.3	13.8	19.9	21.4
142.5°	13.8	15.3	13.8	18.4	19.9
145°	13.8	15.3	15.3	16.9	18.4
147.5°	15.3	15.3	15.3	15.3	16.9
150°	15.3	15.3	15.3	15.3	15.3
152.5°	15.3	15.3	15.3	15.3	15.3
155°	15.3	16.9	16.9	16.9	15.3
157.5°	15.3	16.9	16.9	16.9	16.9
160°	15.3	16.9	16.9	16.9	16.9
162.5°	16.9	16.9	16.9	16.9	16.9
165°	16.9	16.9	16.9	16.9	16.9
167.5°	16.9	18.4	16.9	16.9	16.9
170°	16.9	16.9	16.9	15.3	15.3
172.5°	16.9	16.9	16.9	15.3	15.3
175°	16.9	16.9	15.3	13.8	13.8
177.5°	18.4	16.9	15.3	13.8	12.3
180°	15.3	15.3	15.3	15.3	15.3



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	7.7	29.1	75.1	90.4	93.4
110°	9.2	24.5	62.8	76.6	79.7



(END OF REPORT)