

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: P830289

Luminaire Tested: **OHBL-30SE-NL-UNV-L840-CD**

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P830289
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P472951)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-30SE-NL-UNV-L840-CD
Description: 30000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND NO LENS
Light Source: -
Ballast/Driver: -

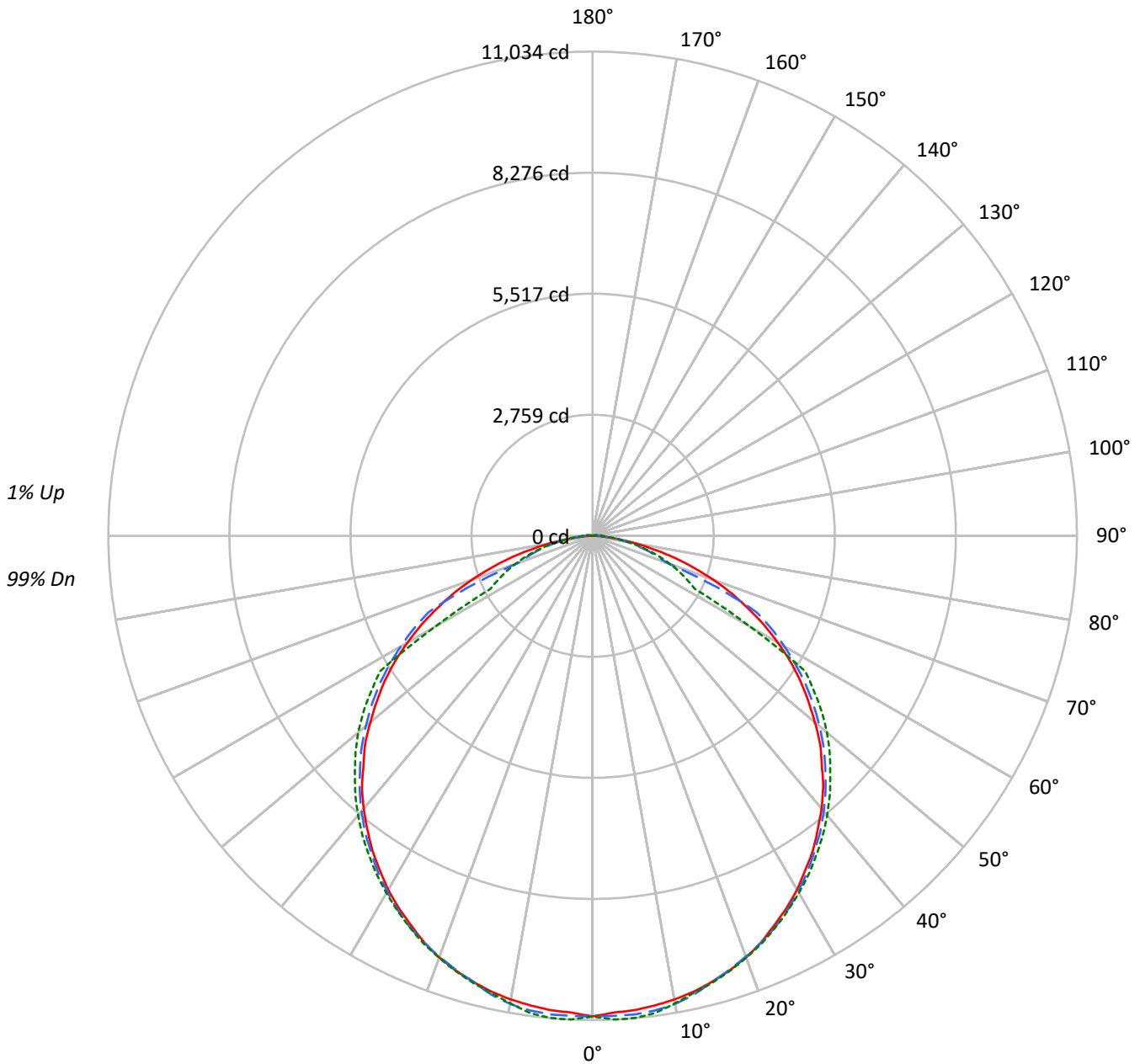
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30753.0 lumens
Efficiency: N/A
Efficacy: 176.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular (W 1.67' x L: 3.78' x H: 0')
CIE Type: Direct

Input Watts (W): 174
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	111	111	111	106	106	106	102	102	102	99																			
1	109	105	100	97	106	102	99	95	98	95	92	94	91	89	90	88	86	84																			
2	99	92	85	79	97	90	84	78	86	81	76	83	78	75	80	76	73	71																			
3	91	81	73	66	88	79	72	66	76	70	64	73	68	63	70	66	62	60																			
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51																			
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44																			
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39																			
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34																			
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30																			
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27																			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18708	18708	18708
5°	18605	18773	18915
10°	18610	18787	18764
15°	18607	18604	18644
20°	18582	18554	18599
25°	18455	18549	18563
30°	18369	18464	18536
35°	18250	18350	18523
40°	18092	18264	18534
45°	17832	18101	18496
50°	17563	17921	18513
55°	17227	17673	18309
60°	16650	17241	14254
65°	15753	16669	9593
70°	14570	8849	9310
75°	12709	8409	8891
80°	9773	7713	8148
85°	4933	7796	7984



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1040.6	3.4
10°-20°	2979.6	9.7
20°-30°	4533.7	14.7
30°-40°	5512.3	17.9
40°-50°	5795.9	18.8
50°-60°	5292.4	17.2
60°-70°	3392.7	11.0
70°-80°	1602.6	5.2
80°-90°	444.4	1.4
90°-100°	117.7	0.4
100°-110°	32.2	0.1
110°-120°	8.9	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	8553.9	27.8
0°-40°	14066.2	45.7
0°-60°	25154.4	81.8
0°-90°	30594.2	99.5
90°-120°	158.9	0.5
90°-150°	158.9	0.5
90°-180°	159.0	0.5
0°-180°	30753.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10953	10953	10953	10953	10953	
5°	10852	10894	10950	11009	11032	###
15°	10523	10602	10521	10536	10544	2971
25°	9792	9808	9842	9858	9850	4519
35°	8753	8701	8801	8908	8883	5470
45°	7382	7369	7494	7671	7657	5706
55°	5785	5741	5935	6133	6148	5159
65°	3898	3898	4124	2366	2374	3864
75°	1926	1962	1274	1342	1347	2030
85°	252	319	398	431	407	372
90°	0	108	177	209	206	11
95°	6	56	127	171	171	3
105°	10	21	31	31	29	10
115°	10	13	19	13	2	7
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
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°	10953.4	10953.4	10953.4	10953.4	10953.4
2.5°	10876.5	10913.1	10953.4	11005.3	11034.0
5°	10851.5	10893.8	10949.6	11009.2	11032.2
7.5°	10797.8	10857.2	10911.1	10953.4	10966.9
10°	10730.4	10801.6	10832.4	10828.5	10818.9
12.5°	10640.1	10715.1	10705.6	10661.2	10669.0
15°	10522.9	10601.6	10521.0	10536.3	10544.0
17.5°	10384.5	10461.4	10367.2	10397.9	10399.9
20°	10223.1	10280.7	10207.7	10232.7	10232.7
22.5°	10029.0	10069.3	10038.6	10055.9	10059.7
25°	9792.5	9807.8	9842.4	9857.9	9850.1
27.5°	9565.9	9546.5	9613.9	9650.3	9631.0
30°	9313.9	9283.2	9362.0	9421.6	9398.6
32.5°	9025.6	9006.5	9096.8	9167.8	9154.4
35°	8752.7	8700.8	8800.8	8908.4	8883.4
37.5°	8429.8	8399.1	8512.4	8626.0	8612.5
40°	8114.6	8062.7	8191.5	8326.0	8312.6
42.5°	7776.4	7714.8	7855.2	8016.7	8001.3
45°	7382.3	7368.8	7493.8	7670.6	7657.2
47.5°	7032.7	6965.3	7140.1	7311.2	7326.7
50°	6609.6	6584.8	6744.3	6951.9	6967.1
52.5°	6196.5	6179.2	6346.3	6555.9	6582.8
55°	5785.1	5740.9	5935.1	6133.1	6148.5
57.5°	5345.2	5299.0	5497.0	5712.2	5744.8
60°	4874.1	4829.9	5047.1	5247.1	4172.7
62.5°	4403.2	4372.5	4599.4	3257.8	2625.6
65°	3897.8	3897.8	4124.4	2365.9	2373.7
67.5°	3425.1	3394.3	3075.3	2125.6	2125.6
70°	2917.6	2929.2	1772.0	1862.5	1864.3
72.5°	2408.3	2450.6	1530.0	1602.9	1606.7
75°	1925.8	1962.4	1274.2	1341.6	1347.3
77.5°	1414.6	1087.8	1024.3	1076.4	1078.3
80°	993.6	686.2	784.2	834.1	828.4
82.5°	580.3	480.4	574.6	611.3	609.2
85°	251.7	319.1	397.8	430.6	407.4
87.5°	80.6	198.0	247.8	267.2	265.1
90°	0.0	107.6	176.8	209.4	205.7
92.5°	0.0	84.4	153.8	192.3	194.1
95°	5.7	55.8	127.0	171.1	171.1
97.5°	3.9	40.3	90.3	134.5	138.4
100°	3.9	32.6	59.6	96.0	98.1
102.5°	9.6	26.9	36.4	61.5	63.5
105°	9.6	21.2	30.7	30.7	28.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	11.6	15.5	21.2	15.5	1.8
115°	9.6	13.4	19.1	13.4	1.8
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
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°	9.6	19.1	26.9	17.3	5.7
110°	11.6	17.3	23.0	15.5	1.8



(END OF REPORT)