

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: P830251

Luminaire Tested: **OHBL-30SE-MCL-UNV-L830-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830251
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-30SE-MCL-UNV-L830-CD
Description: 30000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 3000K LEDS AND MEDIUM CLEAR LENS
Light Source: -
Ballast/Driver: -

Summary

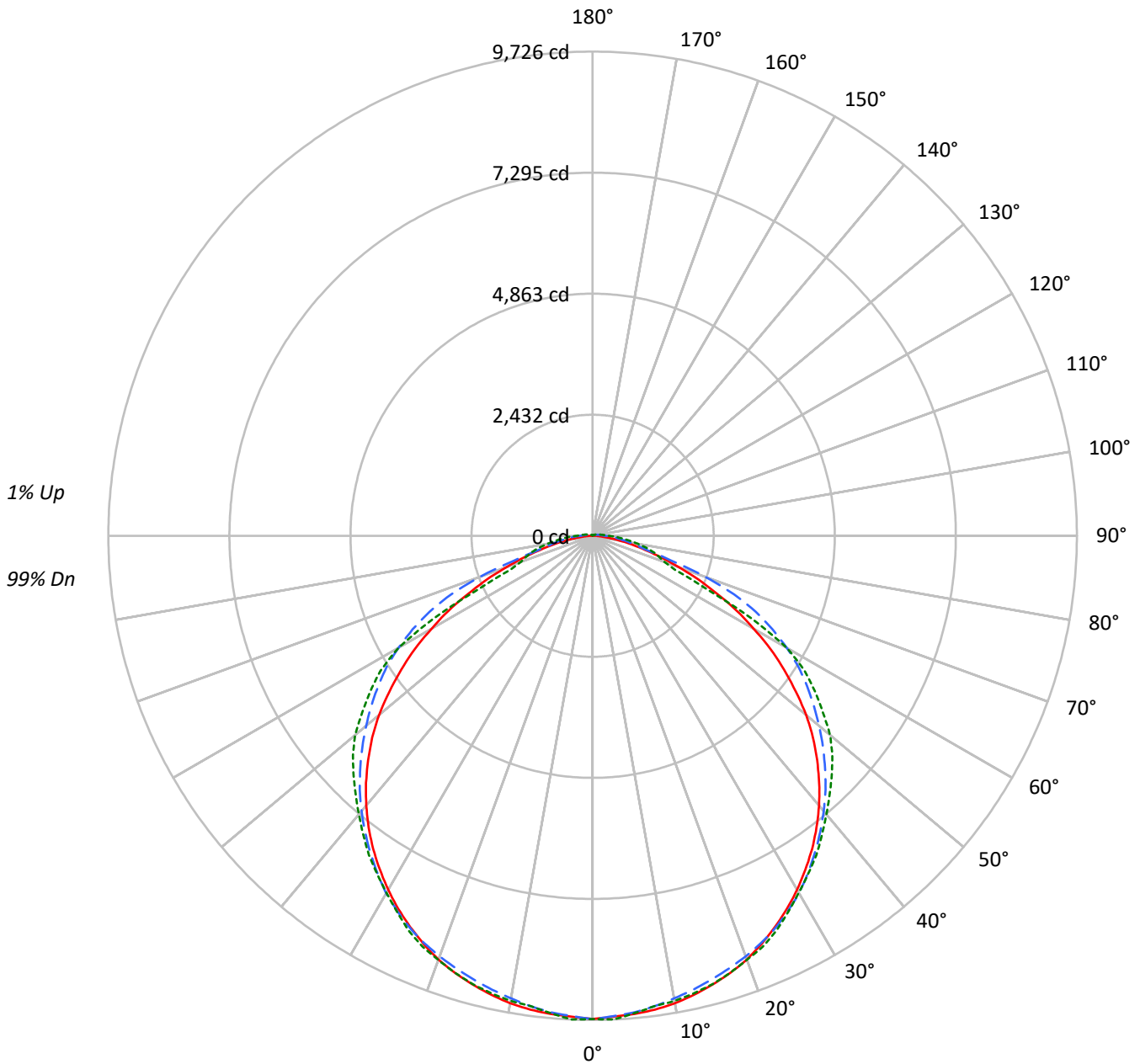
Lumens per Lamp: N/A
Luminaire Lumens: 27435.9 lumens
Efficiency: N/A
Efficacy: 157.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

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	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°	16579	16579	16579
5°	16471	16331	16362
10°	16410	16076	16170
15°	16306	15884	16051
20°	16202	15760	15899
25°	16007	15635	15747
30°	15794	15443	15438
35°	15540	15141	15261
40°	15209	14829	15024
45°	14751	14470	14910
50°	14131	14061	14775
55°	13144	13656	14204
60°	11853	13069	13110
65°	10168	11991	8290
70°	8190	9342	5993
75°	6140	5529	6057
80°	4274	4576	5743
85°	2433	4155	5313



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	915.3	3.3
10°-20°	2624.6	9.6
20°-30°	4008.5	14.6
30°-40°	4863.7	17.7
40°-50°	5097.6	18.6
50°-60°	4619.2	16.8
60°-70°	3097.0	11.3
70°-80°	1390.7	5.1
80°-90°	504.7	1.8
90°-100°	151.9	0.6
100°-110°	71.7	0.3
110°-120°	35.9	0.1
120°-130°	19.8	0.1
130°-140°	13.6	0.0
140°-150°	9.1	0.0
150°-160°	6.8	0.0
160°-170°	4.4	0.0
170°-180°	1.4	0.0
0°-30°	7548.4	27.5
0°-40°	12412.1	45.2
0°-60°	22128.9	80.7
0°-90°	27121.3	98.9
90°-120°	259.5	0.9
90°-150°	302.1	1.1
90°-180°	315.0	1.1
0°-180°	27435.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9707	9707	9707	9707	9707	
5°	9644	9677	9610	9640	9627	917
15°	9331	9294	9228	9310	9321	2634
25°	8668	8630	8691	8771	8746	3996
35°	7683	7701	7780	7863	7832	4802
45°	6376	6480	6601	6769	6790	4912
55°	4692	4918	5253	5464	5451	4188
65°	2754	3185	3616	3051	2491	2744
75°	1084	1572	1156	1183	1260	1184
85°	187	358	459	554	581	228
90°	1	119	237	298	312	11
95°	1	74	163	198	204	2
105°	6	32	80	97	101	6
115°	11	17	41	52	55	10
125°	10	11	25	30	31	10
135°	13	14	15	22	24	10
145°	13	14	14	15	17	8
155°	14	15	15	15	14	6
165°	15	15	15	15	15	4
175°	15	15	14	13	13	1
180°	14	14	14	14	14	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9706.9	9706.9	9706.9	9706.9	9706.9
2.5°	9667.6	9708.3	9657.8	9712.5	9726.5
5°	9643.7	9677.4	9610.0	9639.5	9626.9
7.5°	9600.2	9611.4	9531.4	9555.3	9530.0
10°	9535.6	9530.0	9436.0	9482.3	9487.9
12.5°	9440.2	9423.4	9339.2	9409.3	9410.7
15°	9330.7	9294.2	9228.3	9309.7	9320.9
17.5°	9204.4	9156.7	9113.2	9218.4	9201.6
20°	9057.0	9000.9	8992.5	9107.6	9065.5
22.5°	8874.6	8831.1	8850.7	8960.2	8933.5
25°	8668.3	8630.4	8690.7	8770.7	8745.5
27.5°	8450.7	8428.3	8497.0	8558.8	8509.7
30°	8212.1	8199.5	8290.7	8341.2	8279.5
32.5°	7952.5	7956.7	8043.7	8112.5	8054.9
35°	7683.0	7701.2	7779.8	7862.6	7831.8
37.5°	7386.8	7427.5	7506.1	7600.2	7567.9
40°	7073.8	7132.8	7219.8	7333.5	7304.0
42.5°	6735.6	6810.0	6922.3	7048.6	7045.8
45°	6376.3	6480.1	6600.8	6769.3	6790.3
47.5°	6002.9	6119.4	6272.4	6497.0	6529.3
50°	5597.3	5743.3	5934.2	6203.6	6223.3
52.5°	5145.4	5344.7	5597.3	5855.6	5831.7
55°	4692.0	4918.0	5253.4	5464.0	5451.3
57.5°	4240.1	4494.1	4901.2	5051.3	5049.9
60°	3734.8	4056.2	4501.2	4614.8	4502.6
62.5°	3267.4	3612.7	4074.5	3991.7	3607.1
65°	2753.7	3184.6	3615.5	3051.3	2491.3
67.5°	2297.6	2746.7	3070.9	2089.9	1789.5
70°	1838.6	2334.1	2394.4	1550.9	1529.9
72.5°	1431.6	1959.3	1652.0	1327.7	1395.1
75°	1083.5	1572.0	1156.5	1183.2	1260.4
77.5°	790.2	1207.0	899.7	1037.2	1100.4
80°	543.2	854.8	734.1	871.6	915.1
82.5°	341.1	564.2	588.1	701.8	746.7
85°	186.7	357.9	459.0	554.4	581.1
87.5°	77.2	216.1	350.9	428.1	450.5
90°	1.4	119.3	237.2	297.6	311.6
92.5°	1.4	91.2	193.7	240.0	249.8
95°	1.4	74.4	162.8	197.9	203.5
97.5°	2.8	58.9	136.1	164.2	169.8
100°	4.2	49.1	113.7	137.5	141.8
102.5°	5.6	39.3	95.4	115.1	119.3
105°	5.6	32.3	80.0	96.8	101.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	9.8	19.6	47.7	60.4	63.2
115°	11.2	16.8	40.7	51.9	54.7
117.5°	11.2	14.0	35.1	43.5	46.3
120°	11.2	12.6	30.9	37.9	39.3
122.5°	11.2	11.2	26.7	33.7	35.1
125°	9.8	11.2	25.3	29.5	30.9
127.5°	11.2	11.2	22.5	26.7	28.1
130°	11.2	12.6	19.6	25.3	25.3
132.5°	12.6	14.0	18.2	23.9	23.9
135°	12.6	14.0	15.4	22.5	23.9
137.5°	14.0	14.0	14.0	21.1	22.5
140°	14.0	14.0	12.6	18.2	19.6
142.5°	12.6	14.0	12.6	16.8	18.2
145°	12.6	14.0	14.0	15.4	16.8
147.5°	14.0	14.0	14.0	14.0	15.4
150°	14.0	14.0	14.0	14.0	14.0
152.5°	14.0	14.0	14.0	14.0	14.0
155°	14.0	15.4	15.4	15.4	14.0
157.5°	14.0	15.4	15.4	15.4	15.4
160°	14.0	15.4	15.4	15.4	15.4
162.5°	15.4	15.4	15.4	15.4	15.4
165°	15.4	15.4	15.4	15.4	15.4
167.5°	15.4	16.8	15.4	15.4	15.4
170°	15.4	15.4	15.4	14.0	14.0
172.5°	15.4	15.4	15.4	14.0	14.0
175°	15.4	15.4	14.0	12.6	12.6
177.5°	16.8	15.4	14.0	12.6	11.2
180°	14.0	14.0	14.0	14.0	14.0



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	7.0	26.7	68.8	82.8	85.6
110°	8.4	22.5	57.5	70.2	73.0



(END OF REPORT)