

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: P830039

Luminaire Tested: **OHBL-24HE-MCL-UNV-L930-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830039
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-24HE-MCL-UNV-L930-CD
Description: 24000 LUMEN OHBL HE LED LUMINAIRE WITH 90CRI, 3000K LEDS AND MEDIUM CLEAR LENS
Light Source: -
Ballast/Driver: -

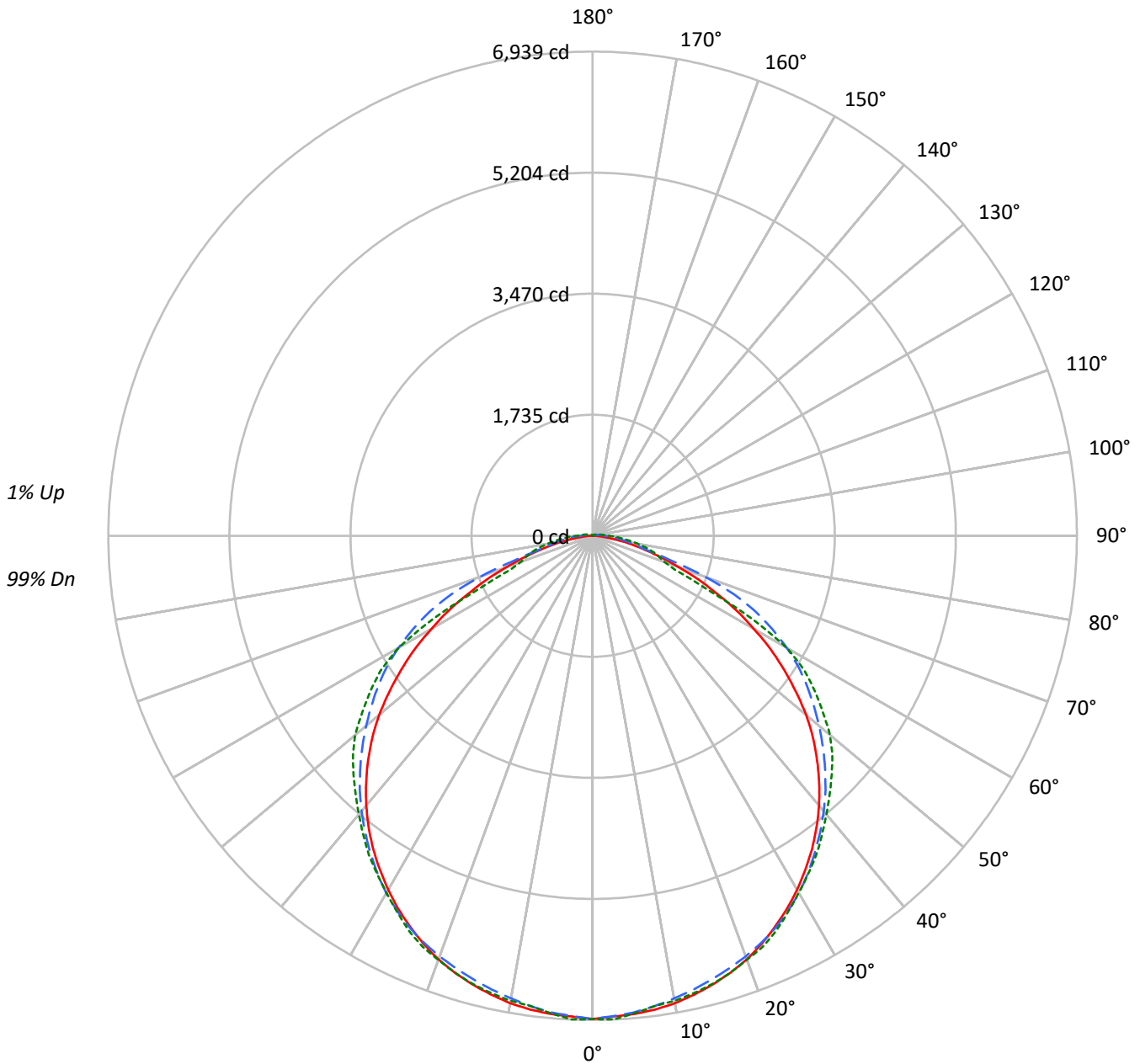
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19571.9 lumens
Efficiency: N/A
Efficacy: 147.2 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): 133
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°	10951	10951	10951
5°	10879	10792	10815
10°	10840	10629	10695
15°	10771	10506	10623
20°	10702	10429	10529
25°	10573	10352	10436
30°	10432	10229	10238
35°	10265	10036	10129
40°	10046	9835	9981
45°	9744	9603	9916
50°	9334	9339	9837
55°	8682	9080	9470
60°	7829	8700	8755
65°	6716	7994	5548
70°	5410	6241	4023
75°	4056	3705	4083
80°	2823	3080	3898
85°	1607	2822	3654



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	652.9	3.3
10°-20°	1872.3	9.6
20°-30°	2859.6	14.6
30°-40°	3469.6	17.7
40°-50°	3636.5	18.6
50°-60°	3295.2	16.8
60°-70°	2209.3	11.3
70°-80°	992.1	5.1
80°-90°	360.0	1.8
90°-100°	108.4	0.6
100°-110°	51.1	0.3
110°-120°	25.6	0.1
120°-130°	14.1	0.1
130°-140°	9.7	0.0
140°-150°	6.5	0.0
150°-160°	4.9	0.0
160°-170°	3.1	0.0
170°-180°	1.0	0.0
0°-30°	5384.8	27.5
0°-40°	8854.4	45.2
0°-60°	15786.1	80.7
0°-90°	19347.5	98.9
90°-120°	185.1	0.9
90°-150°	215.5	1.1
90°-180°	224.0	1.1
0°-180°	19571.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6925	6925	6925	6925	6925	
5°	6880	6904	6856	6876	6868	654
15°	6656	6630	6583	6641	6649	1879
25°	6184	6157	6200	6257	6239	2850
35°	5481	5494	5550	5609	5587	3426
45°	4549	4623	4709	4829	4844	3504
55°	3347	3508	3748	3898	3889	2988
65°	1964	2272	2579	2177	1777	1957
75°	773	1121	825	844	899	845
85°	133	255	327	396	414	163
90°	1	85	169	212	222	8
95°	1	53	116	141	145	1
105°	4	23	57	69	72	5
115°	8	12	29	37	39	7
125°	7	8	18	21	22	7
135°	9	10	11	16	17	7
145°	9	10	10	11	12	6
155°	10	11	11	11	10	5
165°	11	11	11	11	11	3
175°	11	11	10	9	9	1
180°	10	10	10	10	10	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6924.6	6924.6	6924.6	6924.6	6924.6
2.5°	6896.6	6925.6	6889.5	6928.6	6938.6
5°	6879.5	6903.6	6855.5	6876.5	6867.5
7.5°	6848.5	6856.5	6799.4	6816.5	6798.4
10°	6802.4	6798.4	6731.4	6764.4	6768.4
12.5°	6734.4	6722.3	6662.3	6712.3	6713.3
15°	6656.3	6630.2	6583.2	6641.2	6649.2
17.5°	6566.1	6532.1	6501.1	6576.2	6564.1
20°	6461.0	6421.0	6415.0	6497.1	6467.0
22.5°	6330.9	6299.8	6313.8	6391.9	6372.9
25°	6183.7	6156.6	6199.7	6256.8	6238.7
27.5°	6028.5	6012.5	6061.5	6105.6	6070.5
30°	5858.3	5849.3	5914.3	5950.4	5906.3
32.5°	5673.0	5676.0	5738.1	5787.2	5746.1
35°	5480.8	5493.8	5549.9	5609.0	5586.9
37.5°	5269.5	5298.6	5354.6	5421.7	5398.7
40°	5046.3	5088.3	5150.4	5231.5	5210.5
42.5°	4805.0	4858.0	4938.1	5028.2	5026.2
45°	4548.6	4622.7	4708.8	4829.0	4844.0
47.5°	4282.3	4365.4	4474.6	4634.7	4657.8
50°	3993.0	4097.1	4233.3	4425.5	4439.5
52.5°	3670.6	3812.7	3993.0	4177.2	4160.2
55°	3347.2	3508.4	3747.6	3897.8	3888.8
57.5°	3024.8	3206.0	3496.3	3603.5	3602.5
60°	2664.3	2893.6	3211.0	3292.1	3212.0
62.5°	2330.9	2577.2	2906.6	2847.5	2573.2
65°	1964.4	2271.8	2579.2	2176.7	1777.2
67.5°	1639.0	1959.4	2190.7	1490.8	1276.6
70°	1311.6	1665.1	1708.1	1106.4	1091.4
72.5°	1021.3	1397.7	1178.5	947.2	995.2
75°	773.0	1121.4	825.0	844.0	899.1
77.5°	563.7	861.1	641.8	739.9	785.0
80°	387.5	609.8	523.6	621.8	652.8
82.5°	243.3	402.5	419.5	500.6	532.7
85°	133.2	255.3	327.4	395.5	414.5
87.5°	55.1	154.2	250.3	305.4	321.4
90°	1.0	85.1	169.2	212.3	222.3
92.5°	1.0	65.1	138.2	171.2	178.2
95°	1.0	53.1	116.1	141.2	145.2
97.5°	2.0	42.1	97.1	117.1	121.2
100°	3.0	35.0	81.1	98.1	101.1
102.5°	4.0	28.0	68.1	82.1	85.1
105°	4.0	23.0	57.1	69.1	72.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	7.0	14.0	34.0	43.1	45.1
115°	8.0	12.0	29.0	37.0	39.0
117.5°	8.0	10.0	25.0	31.0	33.0
120°	8.0	9.0	22.0	27.0	28.0
122.5°	8.0	8.0	19.0	24.0	25.0
125°	7.0	8.0	18.0	21.0	22.0
127.5°	8.0	8.0	16.0	19.0	20.0
130°	8.0	9.0	14.0	18.0	18.0
132.5°	9.0	10.0	13.0	17.0	17.0
135°	9.0	10.0	11.0	16.0	17.0
137.5°	10.0	10.0	10.0	15.0	16.0
140°	10.0	10.0	9.0	13.0	14.0
142.5°	9.0	10.0	9.0	12.0	13.0
145°	9.0	10.0	10.0	11.0	12.0
147.5°	10.0	10.0	10.0	10.0	11.0
150°	10.0	10.0	10.0	10.0	10.0
152.5°	10.0	10.0	10.0	10.0	10.0
155°	10.0	11.0	11.0	11.0	10.0
157.5°	10.0	11.0	11.0	11.0	11.0
160°	10.0	11.0	11.0	11.0	11.0
162.5°	11.0	11.0	11.0	11.0	11.0
165°	11.0	11.0	11.0	11.0	11.0
167.5°	11.0	12.0	11.0	11.0	11.0
170°	11.0	11.0	11.0	10.0	10.0
172.5°	11.0	11.0	11.0	10.0	10.0
175°	11.0	11.0	10.0	9.0	9.0
177.5°	12.0	11.0	10.0	9.0	8.0
180°	10.0	10.0	10.0	10.0	10.0



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	5.0	19.0	49.1	59.1	61.1
110°	6.0	16.0	41.1	50.1	52.1



(END OF REPORT)