

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: P830031

Luminaire Tested: **OHBL-24HE-MCL-UNV-L730-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830031
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-L730-CD
Description: 24000 LUMEN OHBL HE LED LUMINAIRE WITH 70CRI, 3000K LEDS AND MEDIUM CLEAR LENS
Light Source: -
Ballast/Driver: -

Summary

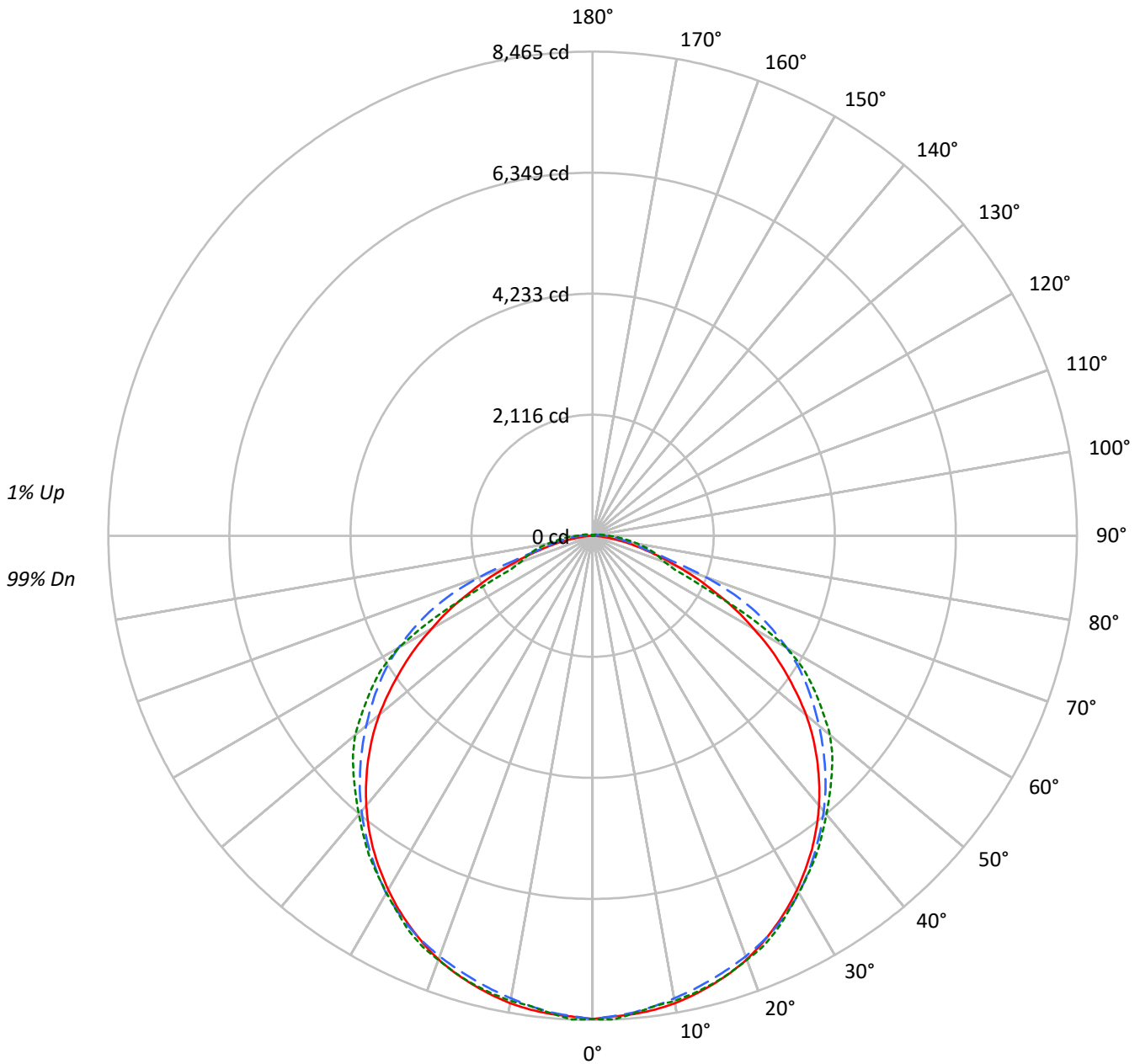
Lumens per Lamp: N/A
Luminaire Lumens: 23877.0 lumens
Efficiency: N/A
Efficacy: 179.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

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°	13360	13360	13360
5°	13272	13166	13193
10°	13224	12966	13047
15°	13140	12817	12960
20°	13056	12723	12845
25°	12899	12629	12731
30°	12727	12479	12490
35°	12522	12243	12357
40°	12256	11999	12177
45°	11887	11716	12097
50°	11387	11394	12001
55°	10592	11077	11553
60°	9551	10613	10681
65°	8193	9753	6769
70°	6599	7613	4908
75°	4948	4520	4981
80°	3444	3758	4755
85°	1961	3443	4458



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	796.5	3.3
10°-20°	2284.1	9.6
20°-30°	3488.5	14.6
30°-40°	4232.8	17.7
40°-50°	4436.4	18.6
50°-60°	4020.0	16.8
60°-70°	2695.3	11.3
70°-80°	1210.3	5.1
80°-90°	439.2	1.8
90°-100°	132.2	0.6
100°-110°	62.4	0.3
110°-120°	31.3	0.1
120°-130°	17.3	0.1
130°-140°	11.9	0.0
140°-150°	8.0	0.0
150°-160°	5.9	0.0
160°-170°	3.8	0.0
170°-180°	1.2	0.0
0°-30°	6569.2	27.5
0°-40°	10802.0	45.2
0°-60°	19258.4	80.7
0°-90°	23603.1	98.9
90°-120°	225.8	0.9
90°-150°	262.9	1.1
90°-180°	274.0	1.1
0°-180°	23877.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8448	8448	8448	8448	8448	
5°	8393	8422	8363	8389	8378	798
15°	8120	8089	8031	8102	8112	2293
25°	7544	7511	7563	7633	7611	3477
35°	6686	6702	6771	6843	6816	4179
45°	5549	5640	5745	5891	5910	4275
55°	4083	4280	4572	4755	4744	3645
65°	2396	2772	3146	2656	2168	2388
75°	943	1368	1006	1030	1097	1031
85°	162	312	399	482	506	198
90°	1	104	206	259	271	10
95°	1	65	142	172	177	2
105°	5	28	70	84	88	6
115°	10	15	35	45	48	9
125°	9	10	22	26	27	9
135°	11	12	13	20	21	9
145°	11	12	12	13	15	7
155°	12	13	13	13	12	6
165°	13	13	13	13	13	4
175°	13	13	12	11	11	1
180°	12	12	12	12	12	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8447.7	8447.7	8447.7	8447.7	8447.7
2.5°	8413.5	8448.9	8405.0	8452.6	8464.8
5°	8392.7	8422.1	8363.4	8389.1	8378.1
7.5°	8354.9	8364.6	8295.0	8315.8	8293.8
10°	8298.7	8293.8	8212.0	8252.3	8257.2
12.5°	8215.6	8201.0	8127.7	8188.8	8190.0
15°	8120.3	8088.6	8031.2	8102.0	8111.8
17.5°	8010.4	7968.9	7931.0	8022.6	8008.0
20°	7882.2	7833.3	7826.0	7926.1	7889.5
22.5°	7723.4	7685.5	7702.6	7797.9	7774.7
25°	7543.8	7510.8	7563.4	7633.0	7611.0
27.5°	7354.5	7334.9	7394.8	7448.5	7405.8
30°	7146.8	7135.8	7215.2	7259.2	7205.5
32.5°	6920.9	6924.5	7000.3	7060.1	7010.0
35°	6686.3	6702.2	6770.6	6842.7	6815.8
37.5°	6428.6	6464.0	6532.4	6614.3	6586.2
40°	6156.2	6207.5	6283.3	6382.2	6356.5
42.5°	5861.8	5926.6	6024.3	6134.2	6131.8
45°	5549.1	5639.5	5744.6	5891.2	5909.5
47.5°	5224.2	5325.6	5458.8	5654.2	5682.3
50°	4871.2	4998.3	5164.4	5398.9	5416.0
52.5°	4477.9	4651.4	4871.2	5096.0	5075.2
55°	4083.4	4280.0	4572.0	4755.2	4744.2
57.5°	3690.1	3911.2	4265.4	4396.1	4394.9
60°	3250.3	3530.1	3917.3	4016.2	3918.5
62.5°	2843.6	3144.1	3545.9	3473.9	3139.2
65°	2396.5	2771.5	3146.5	2655.5	2168.1
67.5°	1999.6	2390.4	2672.6	1818.8	1557.4
70°	1600.1	2031.3	2083.8	1349.7	1331.4
72.5°	1245.9	1705.2	1437.7	1155.5	1214.1
75°	943.0	1368.0	1006.5	1029.7	1096.9
77.5°	687.7	1050.5	783.0	902.7	957.6
80°	472.7	743.9	638.8	758.5	796.4
82.5°	296.8	491.0	511.8	610.7	649.8
85°	162.5	311.5	399.4	482.5	505.7
87.5°	67.2	188.1	305.4	372.5	392.1
90°	1.2	103.8	206.4	259.0	271.2
92.5°	1.2	79.4	168.6	208.9	217.4
95°	1.2	64.7	141.7	172.2	177.1
97.5°	2.4	51.3	118.5	142.9	147.8
100°	3.7	42.8	98.9	119.7	123.4
102.5°	4.9	34.2	83.1	100.2	103.8
105°	4.9	28.1	69.6	84.3	87.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	8.6	17.1	41.5	52.5	55.0
115°	9.8	14.7	35.4	45.2	47.6
117.5°	9.8	12.2	30.5	37.9	40.3
120°	9.8	11.0	26.9	33.0	34.2
122.5°	9.8	9.8	23.2	29.3	30.5
125°	8.6	9.8	22.0	25.7	26.9
127.5°	9.8	9.8	19.5	23.2	24.4
130°	9.8	11.0	17.1	22.0	22.0
132.5°	11.0	12.2	15.9	20.8	20.8
135°	11.0	12.2	13.4	19.5	20.8
137.5°	12.2	12.2	12.2	18.3	19.5
140°	12.2	12.2	11.0	15.9	17.1
142.5°	11.0	12.2	11.0	14.7	15.9
145°	11.0	12.2	12.2	13.4	14.7
147.5°	12.2	12.2	12.2	12.2	13.4
150°	12.2	12.2	12.2	12.2	12.2
152.5°	12.2	12.2	12.2	12.2	12.2
155°	12.2	13.4	13.4	13.4	12.2
157.5°	12.2	13.4	13.4	13.4	13.4
160°	12.2	13.4	13.4	13.4	13.4
162.5°	13.4	13.4	13.4	13.4	13.4
165°	13.4	13.4	13.4	13.4	13.4
167.5°	13.4	14.7	13.4	13.4	13.4
170°	13.4	13.4	13.4	12.2	12.2
172.5°	13.4	13.4	13.4	12.2	12.2
175°	13.4	13.4	12.2	11.0	11.0
177.5°	14.7	13.4	12.2	11.0	9.8
180°	12.2	12.2	12.2	12.2	12.2



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	6.1	23.2	59.9	72.1	74.5
110°	7.3	19.5	50.1	61.1	63.5



(END OF REPORT)