

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: P830043

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830043
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-24HE-MFL-UNV-L730-CD
Description: 24000 LUMEN OHBL HE LED LUMINAIRE WITH 70CRI, 3000K LEDS AND MEDIUM FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

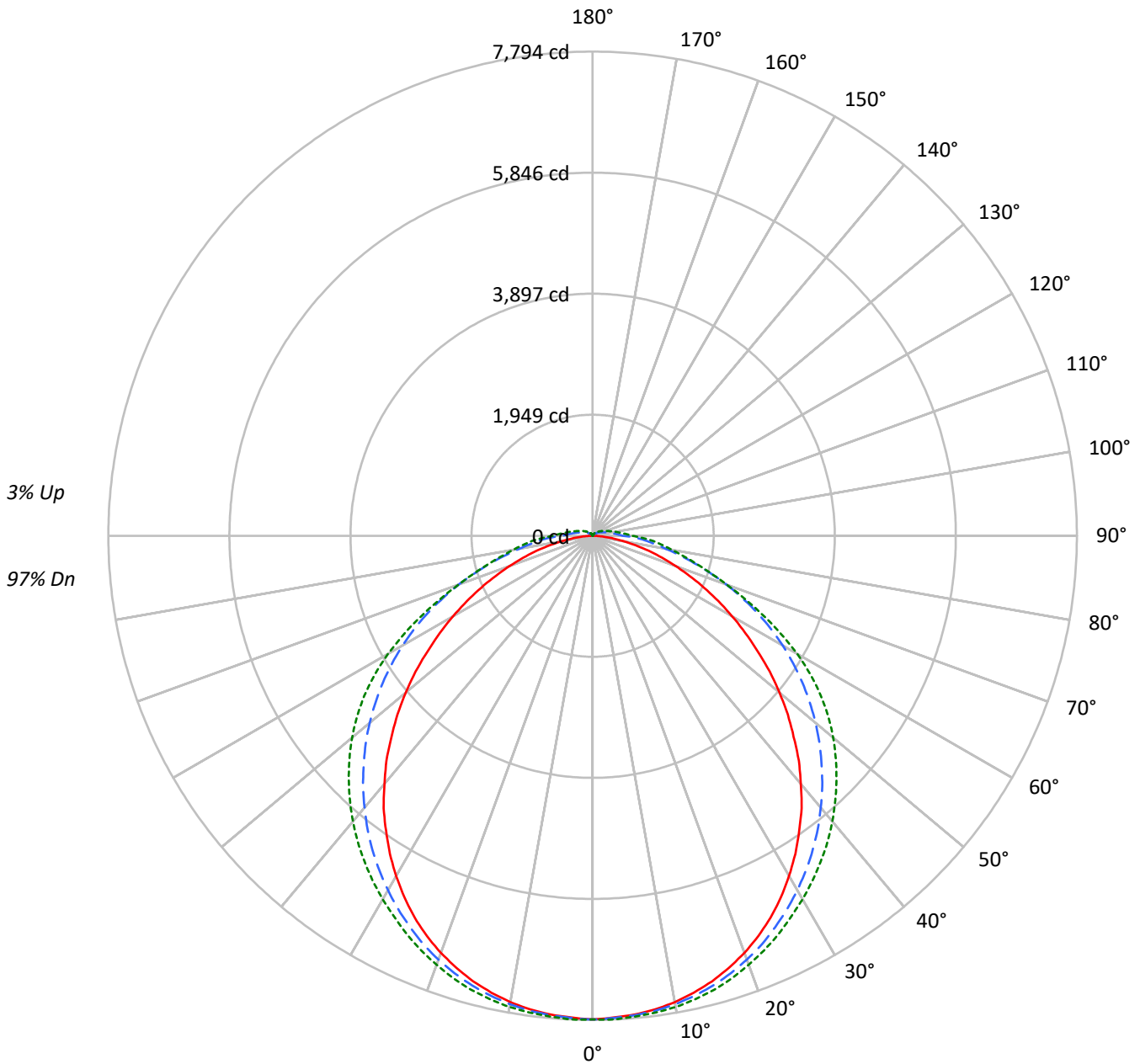
Lumens per Lamp: N/A
Luminaire Lumens: 23303.0 lumens
Efficiency: N/A
Efficacy: 175.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

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

TEST NUMBER: P830043

CATALOG NUMBER: OHBL-24HE-MFL-UNV-L730-CD

Luminous Intensity Polar Plot





TEST NUMBER: P830043

CATALOG NUMBER: OHBL-24HE-MFL-UNV-L730-CD

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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	99	97																
1	107	102	98	94	104	100	96	92	95	91	88	90	88	85	86	84	82	82	82	82	80																
2	98	89	82	76	95	87	80	75	83	77	73	79	74	71	75	72	68	68	68	68	66																
3	89	78	70	63	86	76	69	62	73	66	61	70	64	59	67	62	58	58	58	58	56																
4	81	69	60	53	79	68	59	53	65	57	52	62	56	51	59	54	50	50	50	50	47																
5	75	62	53	46	72	60	52	46	58	50	45	56	49	44	53	48	43	43	43	43	41																
6	69	56	47	40	67	54	46	40	52	45	39	50	44	39	48	43	38	38	38	38	36																
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	44	38	34	34	34	34	32																
8	60	46	37	31	58	45	37	31	43	36	31	42	35	31	41	35	30	30	30	30	28																
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	37	32	27	27	27	27	25																
10	52	39	31	26	51	38	31	26	37	30	25	36	29	25	35	29	25	25	25	25	23																

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12314	12314	12314
5°	12235	12197	12234
10°	12149	12090	12170
15°	12013	11961	12086
20°	11833	11804	11963
25°	11593	11607	11839
30°	11260	11394	11713
35°	10856	11168	11605
40°	10372	10906	11499
45°	9801	10621	11363
50°	9176	10334	11198
55°	8408	9982	10919
60°	7621	9567	10362
65°	6763	9037	9448
70°	5832	8362	8457
75°	4889	7582	7788
80°	3707	7017	7726
85°	2346	7294	8634



TEST NUMBER: P830043

CATALOG NUMBER: OHBL-24HE-MFL-UNV-L730-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	737.8	3.2
10°-20°	2116.6	9.1
20°-30°	3201.0	13.7
30°-40°	3842.8	16.5
40°-50°	3969.0	17.0
50°-60°	3570.9	15.3
60°-70°	2689.9	11.5
70°-80°	1624.2	7.0
80°-90°	794.4	3.4
90°-100°	334.4	1.4
100°-110°	190.9	0.8
110°-120°	112.0	0.5
120°-130°	63.4	0.3
130°-140°	33.4	0.1
140°-150°	16.2	0.1
150°-160°	6.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	6055.4	26.0
0°-40°	9898.3	42.5
0°-60°	17438.2	74.8
0°-90°	22546.7	96.8
90°-120°	637.3	2.7
90°-150°	750.3	3.2
90°-180°	756.0	3.2
0°-180°	23303.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7786	7786	7786	7786	7786	
5°	7737	7758	7748	7779	7769	735
15°	7424	7460	7495	7558	7565	2093
25°	6780	6854	6952	7060	7077	3119
35°	5797	5932	6176	6363	6401	3624
45°	4575	4806	5208	5492	5551	3532
55°	3241	3577	4120	4430	4484	2906
65°	1978	2382	2916	3060	3026	1965
75°	932	1338	1688	1732	1715	994
85°	194	513	846	962	980	225
90°	0	200	484	610	635	12
95°	10	135	362	461	478	8
105°	13	78	210	274	286	13
115°	15	44	130	173	181	16
125°	15	21	78	112	118	14
135°	13	17	40	69	76	10
145°	19	17	19	34	40	11
155°	19	21	19	17	19	6
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P830043

CATALOG NUMBER: OHBL-24HE-MFL-UNV-L730-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7786.3	7786.3	7786.3	7786.3	7786.3
2.5°	7763.4	7782.5	7771.0	7795.8	7793.9
5°	7736.7	7757.7	7748.2	7778.7	7769.1
7.5°	7691.0	7713.9	7712.0	7746.3	7742.4
10°	7624.3	7649.1	7656.7	7702.4	7702.4
12.5°	7532.8	7565.2	7584.3	7639.5	7641.4
15°	7424.2	7460.4	7494.7	7557.6	7565.2
17.5°	7292.7	7338.5	7386.1	7458.5	7468.0
20°	7144.1	7195.5	7260.3	7336.6	7348.0
22.5°	6972.6	7033.6	7117.4	7207.0	7220.3
25°	6780.1	6854.4	6951.6	7060.2	7077.4
27.5°	6561.0	6646.7	6778.2	6900.2	6915.4
30°	6322.8	6423.8	6587.7	6732.5	6757.3
32.5°	6071.2	6187.5	6389.5	6551.4	6585.7
35°	5796.8	5932.1	6176.0	6362.8	6400.9
37.5°	5526.2	5674.9	5951.2	6164.6	6210.3
40°	5209.9	5394.7	5711.1	5947.4	6002.6
42.5°	4912.6	5112.7	5471.0	5728.2	5781.6
45°	4575.3	4805.9	5208.0	5491.9	5551.0
47.5°	4259.0	4508.6	4954.6	5248.0	5309.0
50°	3925.5	4199.9	4684.0	4990.8	5053.6
52.5°	3592.1	3887.4	4403.8	4722.1	4781.1
55°	3241.4	3576.8	4119.9	4430.5	4483.9
57.5°	2915.6	3270.0	3828.3	4123.7	4156.1
60°	2593.5	2961.3	3531.1	3790.2	3801.7
62.5°	2279.1	2665.9	3226.2	3432.0	3416.7
65°	1978.0	2382.0	2915.6	3060.4	3026.1
67.5°	1688.4	2105.7	2597.3	2690.7	2645.0
70°	1414.0	1837.0	2288.6	2336.3	2294.3
72.5°	1171.9	1581.6	1976.1	2016.1	1985.6
75°	931.8	1337.7	1688.4	1732.2	1715.0
77.5°	707.0	1101.4	1423.5	1480.6	1484.5
80°	508.8	886.1	1192.9	1282.5	1293.9
82.5°	335.4	687.9	1000.4	1114.8	1131.9
85°	194.4	512.6	846.1	962.3	979.5
87.5°	83.8	369.7	680.3	785.1	806.1
90°	0.0	200.1	484.0	609.8	634.6
92.5°	5.7	165.8	415.4	529.8	550.7
95°	9.5	135.3	362.1	461.2	478.3
97.5°	11.4	114.3	314.4	402.1	419.2
100°	11.4	99.1	272.5	352.5	367.8
102.5°	11.4	87.7	238.2	308.7	322.0
105°	13.3	78.1	209.6	274.4	285.8



TEST NUMBER: P830043

CATALOG NUMBER: OHBL-24HE-MFL-UNV-L730-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	15.2	51.5	144.8	194.4	202.0
115°	15.2	43.8	129.6	173.4	181.0
117.5°	17.2	38.1	114.3	156.3	162.0
120°	17.2	32.4	101.0	139.1	146.7
122.5°	17.2	26.7	89.6	125.8	131.5
125°	15.2	21.0	78.1	112.4	118.1
127.5°	13.3	17.2	66.7	101.0	106.7
130°	13.3	15.2	57.2	89.6	95.3
132.5°	13.3	17.2	47.6	78.1	85.8
135°	13.3	17.2	40.0	68.6	76.2
137.5°	13.3	17.2	32.4	59.1	66.7
140°	15.2	17.2	26.7	49.5	57.2
142.5°	17.2	17.2	21.0	41.9	47.6
145°	19.1	17.2	19.1	34.3	40.0
147.5°	19.1	19.1	19.1	26.7	32.4
150°	19.1	21.0	19.1	21.0	26.7
152.5°	19.1	21.0	19.1	17.2	21.0
155°	19.1	21.0	19.1	17.2	19.1
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°	13.3	68.6	184.8	243.9	253.4
110°	13.3	61.0	163.9	217.2	226.8



(END OF REPORT)