

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: P830463

Luminaire Tested: **OHBL-48HE-MCL-UNV-L730-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830463
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-48HE-MCL-UNV-L730-CD
Description: 48000 LUMEN OHBL HE LED LUMINAIRE WITH 70CRI, 3000K LEDS AND MEDIUM CLEAR LENS
Light Source: -
Ballast/Driver: -

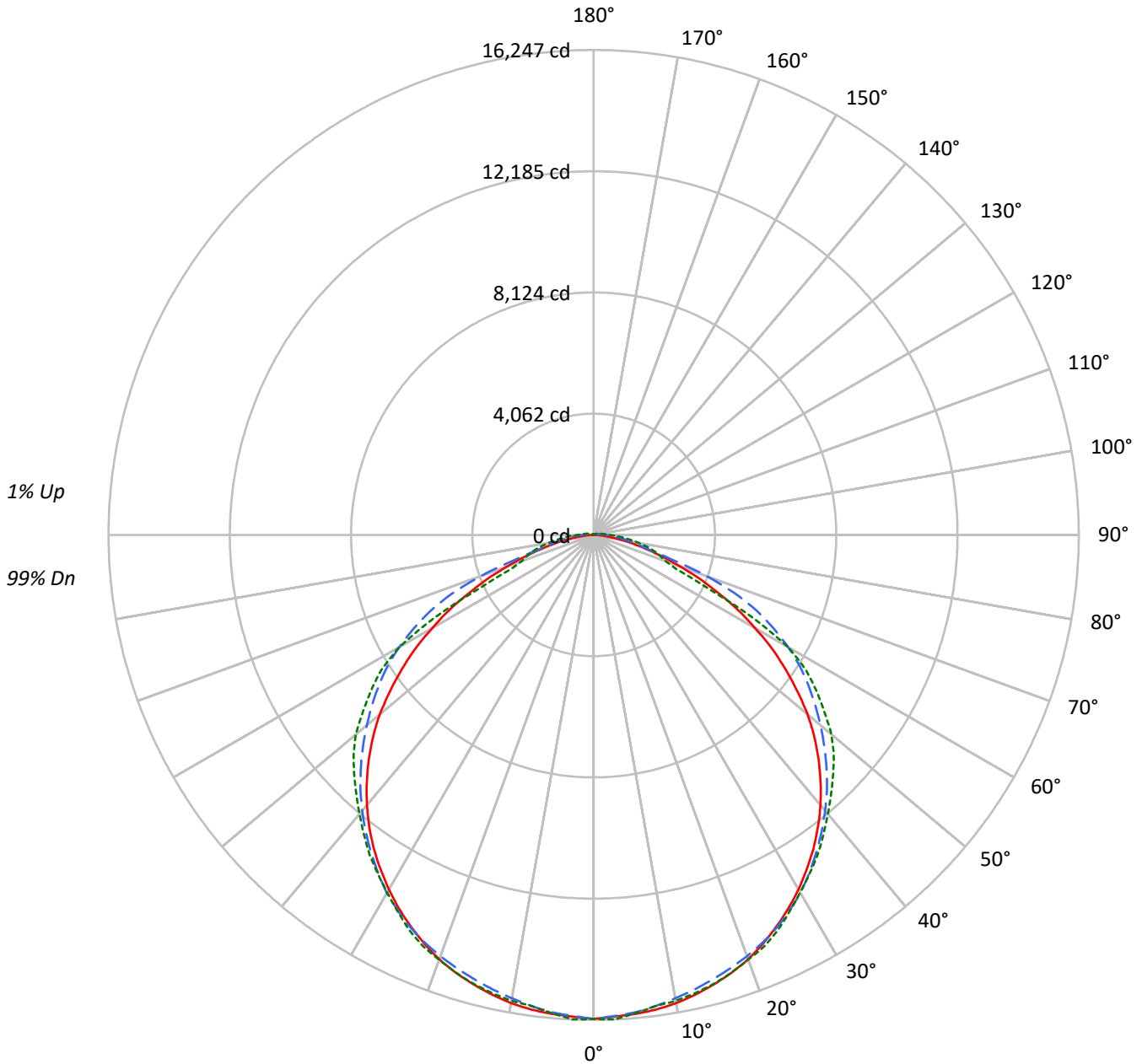
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45828.0 lumens
Efficiency: N/A
Efficacy: 172.3 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): 266
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°	25642	25642	25642
5°	25474	25269	25323
10°	25381	24887	25041
15°	25220	24600	24874
20°	25059	24420	24654
25°	24757	24238	24435
30°	24428	23952	23973
35°	24034	23498	23718
40°	23523	23029	23371
45°	22815	22486	23217
50°	21855	21868	23033
55°	20329	21260	22174
60°	18332	20370	20500
65°	15726	18719	12992
70°	12667	14613	9419
75°	9497	8675	9560
80°	6610	7213	9128
85°	3762	6609	8555



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1528.8	3.3
10°-20°	4384.0	9.6
20°-30°	6695.7	14.6
30°-40°	8124.2	17.7
40°-50°	8514.9	18.6
50°-60°	7715.8	16.8
60°-70°	5173.1	11.3
70°-80°	2323.0	5.1
80°-90°	843.0	1.8
90°-100°	253.7	0.6
100°-110°	119.7	0.3
110°-120°	60.0	0.1
120°-130°	33.1	0.1
130°-140°	22.8	0.0
140°-150°	15.3	0.0
150°-160°	11.4	0.0
160°-170°	7.3	0.0
170°-180°	2.3	0.0
0°-30°	12608.5	27.5
0°-40°	20732.6	45.2
0°-60°	36963.3	80.7
0°-90°	45302.4	98.9
90°-120°	433.5	0.9
90°-150°	504.6	1.1
90°-180°	526.0	1.1
0°-180°	45828.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16214	16214	16214	16214	16214	
5°	16108	16165	16052	16102	16080	###
15°	15586	15525	15414	15550	15569	4400
25°	14479	14416	14517	14650	14608	6674
35°	12833	12864	12995	13133	13082	8021
45°	10651	10824	11026	11307	11342	8205
55°	7837	8215	8775	9127	9106	6996
65°	4600	5320	6039	5097	4161	4583
75°	1810	2626	1932	1976	2105	1978
85°	312	598	767	926	971	380
90°	2	199	396	497	520	19
95°	2	124	272	331	340	3
105°	9	54	134	162	169	11
115°	19	28	68	87	91	17
125°	16	19	42	49	52	16
135°	21	23	26	38	40	17
145°	21	23	23	26	28	14
155°	23	26	26	26	23	11
165°	26	26	26	26	26	7
175°	26	26	23	21	21	2
180°	23	23	23	23	23	



TEST NUMBER: P830463

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	16214.0	16214.0	16214.0	16214.0	16214.0
2.5°	16148.3	16216.3	16131.9	16223.4	16246.8
5°	16108.5	16164.8	16052.2	16101.5	16080.4
7.5°	16035.8	16054.6	15920.9	15960.8	15918.6
10°	15928.0	15918.6	15761.5	15838.9	15848.3
12.5°	15768.5	15740.4	15599.7	15717.0	15719.3
15°	15585.7	15524.7	15414.5	15550.5	15569.3
17.5°	15374.7	15295.0	15222.3	15398.1	15370.0
20°	15128.5	15034.7	15020.7	15212.9	15142.6
22.5°	14823.7	14751.1	14783.9	14966.8	14922.2
25°	14479.1	14415.8	14516.6	14650.3	14608.1
27.5°	14115.7	14078.2	14193.1	14296.3	14214.2
30°	13717.2	13696.1	13848.5	13932.9	13829.7
32.5°	13283.5	13290.5	13435.9	13550.7	13454.6
35°	12833.3	12863.8	12995.1	13133.4	13081.8
37.5°	12338.7	12406.7	12537.9	12695.0	12641.1
40°	11815.9	11914.3	12059.7	12249.6	12200.3
42.5°	11250.9	11375.1	11562.7	11773.7	11769.0
45°	10650.7	10824.2	11025.8	11307.1	11342.3
47.5°	10027.1	10221.7	10477.2	10852.3	10906.2
50°	9349.5	9593.4	9912.2	10362.3	10395.1
52.5°	8594.6	8927.5	9349.5	9780.9	9741.1
55°	7837.4	8214.8	8775.2	9126.8	9105.7
57.5°	7082.5	7506.8	8186.7	8437.6	8435.2
60°	6238.5	6775.4	7518.5	7708.4	7520.9
62.5°	5457.8	6034.5	6805.8	6667.5	6025.2
65°	4599.7	5319.5	6039.2	5096.8	4161.3
67.5°	3837.8	4588.0	5129.6	3490.8	2989.1
70°	3071.2	3898.8	3999.6	2590.6	2555.4
72.5°	2391.3	3272.8	2759.4	2217.8	2330.4
75°	1809.9	2625.7	1931.8	1976.3	2105.3
77.5°	1319.9	2016.2	1502.8	1732.5	1838.0
80°	907.3	1427.7	1226.1	1455.9	1528.6
82.5°	569.7	942.5	982.3	1172.2	1247.2
85°	311.8	597.8	766.6	926.0	970.6
87.5°	128.9	361.0	586.1	715.0	752.6
90°	2.3	199.3	396.2	497.0	520.5
92.5°	2.3	152.4	323.5	400.9	417.3
95°	2.3	124.3	272.0	330.6	339.9
97.5°	4.7	98.5	227.4	274.3	283.7
100°	7.0	82.1	189.9	229.8	236.8
102.5°	9.4	65.6	159.4	192.2	199.3
105°	9.4	53.9	133.6	161.8	168.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	16.4	32.8	79.7	100.8	105.5
115°	18.8	28.1	68.0	86.7	91.4
117.5°	18.8	23.4	58.6	72.7	77.4
120°	18.8	21.1	51.6	63.3	65.6
122.5°	18.8	18.8	44.5	56.3	58.6
125°	16.4	18.8	42.2	49.2	51.6
127.5°	18.8	18.8	37.5	44.5	46.9
130°	18.8	21.1	32.8	42.2	42.2
132.5°	21.1	23.4	30.5	39.9	39.9
135°	21.1	23.4	25.8	37.5	39.9
137.5°	23.4	23.4	23.4	35.2	37.5
140°	23.4	23.4	21.1	30.5	32.8
142.5°	21.1	23.4	21.1	28.1	30.5
145°	21.1	23.4	23.4	25.8	28.1
147.5°	23.4	23.4	23.4	23.4	25.8
150°	23.4	23.4	23.4	23.4	23.4
152.5°	23.4	23.4	23.4	23.4	23.4
155°	23.4	25.8	25.8	25.8	23.4
157.5°	23.4	25.8	25.8	25.8	25.8
160°	23.4	25.8	25.8	25.8	25.8
162.5°	25.8	25.8	25.8	25.8	25.8
165°	25.8	25.8	25.8	25.8	25.8
167.5°	25.8	28.1	25.8	25.8	25.8
170°	25.8	25.8	25.8	23.4	23.4
172.5°	25.8	25.8	25.8	23.4	23.4
175°	25.8	25.8	23.4	21.1	21.1
177.5°	28.1	25.8	23.4	21.1	18.8
180°	23.4	23.4	23.4	23.4	23.4



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	11.7	44.5	114.9	138.3	143.0
110°	14.1	37.5	96.1	117.2	121.9



(END OF REPORT)