

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: P826494

Luminaire Tested: **OHBL-18HE-MCL-UNV-L830-CD-UPL12**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P826494
REPORT IS A COMBINATION OF REPORTS P826060 AND G3-2310-221-12
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-18HE-MCL-UNV-L830-CD-UPL12
Description:
Light Source: -
Ballast/Driver: -

Summary

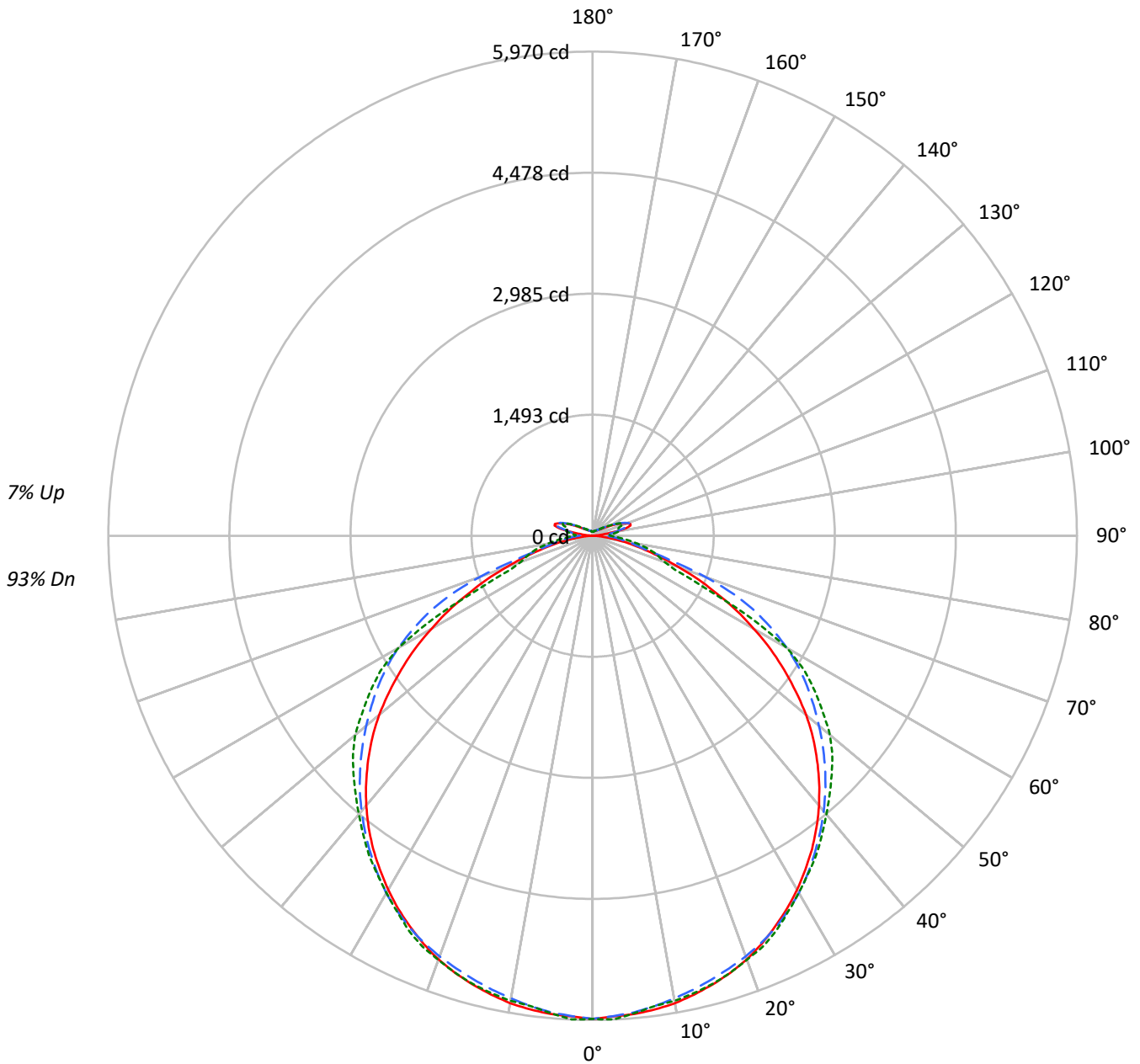
Lumens per Lamp: N/A
Luminaire Lumens: 17997.3 lumens
Efficiency: N/A
Efficacy: 161.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')
CIE Type: Direct

Input Watts (W): 111.4
Input Voltage (V): NR
Input Current (Ain): 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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	93																			
1	107	103	99	95	104	100	96	93	94	91	88	89	87	84	84	82	81	78																			
2	98	90	83	78	95	87	81	76	83	78	73	78	74	71	74	71	68	65																			
3	89	79	71	65	86	77	70	64	73	67	62	69	64	60	66	61	58	55																			
4	82	70	62	55	79	68	60	54	65	58	53	62	56	51	59	54	50	47																			
5	75	63	54	47	73	61	53	47	58	51	45	55	49	44	53	47	43	41																			
6	69	56	48	41	67	55	47	41	52	45	40	50	44	39	48	42	38	36																			
7	64	51	42	36	62	50	42	36	48	40	35	46	39	34	44	38	34	32																			
8	60	46	38	32	58	45	37	32	43	36	31	42	35	31	40	34	30	28																			
9	56	43	34	29	54	42	34	29	40	33	28	38	32	28	37	31	27	25																			
10	52	39	31	26	51	38	31	26	37	30	26	36	29	25	34	29	25	23																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10175	10175	10175
5°	10060	10023	10091
10°	9974	9867	10021
15°	9862	9749	9997
20°	9748	9673	9953
25°	9579	9596	9911
30°	9397	9478	9773
35°	9188	9293	9722
40°	8930	9101	9638
45°	8593	8881	9641
50°	8156	8629	9642
55°	7503	8381	9373
60°	6674	8021	8770
65°	5624	7360	5646
70°	4420	5733	4182
75°	3196	3394	4384
80°	2092	2808	4419
85°	1048	2550	4647



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	561.7	3.1
10°-20°	1610.8	9.0
20°-30°	2460.2	13.7
30°-40°	2985.0	16.6
40°-50°	3128.6	17.4
50°-60°	2835.0	15.8
60°-70°	1900.7	10.6
70°-80°	853.5	4.7
80°-90°	312.7	1.7
90°-100°	203.9	1.1
100°-110°	429.2	2.4
110°-120°	352.9	2.0
120°-130°	170.7	0.9
130°-140°	87.7	0.5
140°-150°	51.8	0.3
150°-160°	31.1	0.2
160°-170°	16.7	0.1
170°-180°	5.1	0.0
0°-30°	4632.7	25.7
0°-40°	7617.7	42.3
0°-60°	13581.3	75.5
0°-90°	16648.2	92.5
90°-120°	986.0	5.5
90°-150°	1296.2	7.2
90°-180°	1349.0	7.5
0°-180°	17997.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5957	5957	5957	5957	5957	
5°	5919	5939	5898	5916	5908	563
15°	5726	5704	5664	5714	5721	1617
25°	5320	5297	5334	5383	5367	2452
35°	4715	4726	4775	4826	4807	2947
45°	3913	3977	4051	4155	4168	3015
55°	2880	3018	3224	3353	3346	2570
65°	1690	1954	2219	1873	1529	1684
75°	665	965	710	726	774	727
85°	115	220	282	340	357	140
90°	4	90	168	211	224	9
95°	24	100	180	229	250	78
105°	484	495	455	347	326	459
115°	342	345	361	365	361	341
125°	170	177	190	190	192	159
135°	103	106	111	116	117	82
145°	78	80	81	83	85	49
155°	64	66	67	68	67	30
165°	58	58	59	59	59	16
175°	53	53	52	52	52	5
180°	52	52	52	52	52	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5957.4	5957.4	5957.4	5957.4	5957.4
2.5°	5933.3	5958.3	5927.3	5960.9	5969.5
5°	5918.7	5939.4	5898.0	5916.1	5908.4
7.5°	5892.0	5898.9	5849.8	5864.5	5848.9
10°	5852.4	5848.9	5791.2	5819.6	5823.0
12.5°	5793.7	5783.4	5731.8	5774.8	5775.7
15°	5726.5	5704.2	5663.7	5713.7	5720.6
17.5°	5649.0	5619.8	5593.1	5657.7	5647.4
20°	5558.6	5524.2	5519.0	5589.7	5563.8
22.5°	5446.6	5419.9	5432.0	5499.2	5482.8
25°	5320.0	5296.7	5333.8	5382.9	5367.4
27.5°	5186.5	5172.7	5214.9	5252.8	5222.6
30°	5040.1	5032.3	5088.3	5119.3	5081.4
32.5°	4880.7	4883.3	4936.7	4978.8	4943.6
35°	4715.3	4726.5	4774.8	4825.6	4806.6
37.5°	4533.6	4558.5	4606.8	4664.5	4644.7
40°	4341.4	4377.6	4431.0	4500.8	4482.8
42.5°	4133.9	4179.5	4248.5	4326.0	4324.2
45°	3913.4	3977.1	4051.2	4154.6	4167.5
47.5°	3684.2	3755.7	3849.6	3987.4	4007.3
50°	3435.2	3524.9	3642.0	3807.4	3819.5
52.5°	3157.9	3280.2	3435.2	3593.8	3579.1
55°	2879.7	3018.4	3224.2	3353.4	3345.7
57.5°	2602.3	2758.2	3008.0	3100.1	3099.3
60°	2292.1	2489.4	2762.5	2832.2	2763.4
62.5°	2005.3	2217.2	2500.7	2449.8	2213.8
65°	1690.1	1954.5	2219.0	1872.6	1529.0
67.5°	1410.1	1685.8	1884.7	1282.6	1098.2
70°	1128.4	1432.5	1469.5	951.9	938.9
72.5°	878.6	1202.6	1013.8	814.9	856.2
75°	665.0	964.8	709.8	726.2	773.6
77.5°	485.0	740.8	552.2	636.6	675.3
80°	333.3	524.6	450.5	534.9	561.6
82.5°	209.3	346.3	361.0	430.7	458.3
85°	114.6	219.6	281.7	340.2	356.6
87.5°	47.4	132.7	215.3	262.7	276.5
90°	3.6	90.0	167.9	211.4	223.8
92.5°	9.2	77.4	154.2	197.6	208.3
95°	24.1	99.7	180.0	229.4	249.6
97.5°	127.4	173.0	238.0	283.2	295.9
100°	259.4	306.5	299.6	324.5	331.7
102.5°	412.0	427.0	352.6	336.8	334.7
105°	484.5	495.3	454.9	347.0	326.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	395.0	403.9	418.3	411.1	397.1
115°	341.9	345.3	360.9	365.1	361.1
117.5°	287.9	293.4	309.0	311.5	311.3
120°	242.3	248.7	261.9	262.4	263.3
122.5°	205.1	209.7	222.0	223.5	225.3
125°	169.8	177.2	189.6	190.2	192.1
127.5°	143.7	149.3	162.7	164.3	165.2
130°	126.0	130.6	139.6	144.0	144.0
132.5°	113.8	117.5	123.8	128.1	129.1
135°	102.6	106.4	110.9	116.1	117.0
137.5°	96.1	98.0	100.8	106.0	107.8
140°	88.7	91.5	92.4	96.8	97.7
142.5°	82.2	85.0	85.9	89.4	91.2
145°	77.5	80.3	81.2	83.0	84.8
147.5°	73.8	75.7	77.5	77.5	79.3
150°	71.0	71.9	72.9	73.8	73.8
152.5°	67.3	68.2	69.1	70.1	70.1
155°	64.5	66.3	67.2	68.1	67.3
157.5°	61.7	64.4	64.4	65.3	65.3
160°	59.8	61.6	62.5	62.5	62.5
162.5°	58.8	59.7	59.7	60.7	60.7
165°	57.9	57.9	58.8	58.8	58.8
167.5°	56.0	56.9	57.0	57.0	57.0
170°	55.1	55.1	55.1	55.2	55.2
172.5°	54.2	54.2	54.2	53.3	53.3
175°	53.2	53.2	52.4	51.5	51.5
177.5°	53.1	53.2	52.4	51.5	50.6
180°	51.5	51.5	51.5	51.5	51.5



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	488.2	502.1	489.8	397.9	340.1
110°	448.2	463.2	464.3	433.9	388.1



(END OF REPORT)