

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: P826496

Luminaire Tested: **OHBL-18HE-MCL-UNV-L830-CD-UPL24**

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P826496
REPORT IS A COMBINATION OF REPORTS P826228 AND G3-2310-221-6
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-UPL24
Description:
Light Source: -
Ballast/Driver: -

Summary

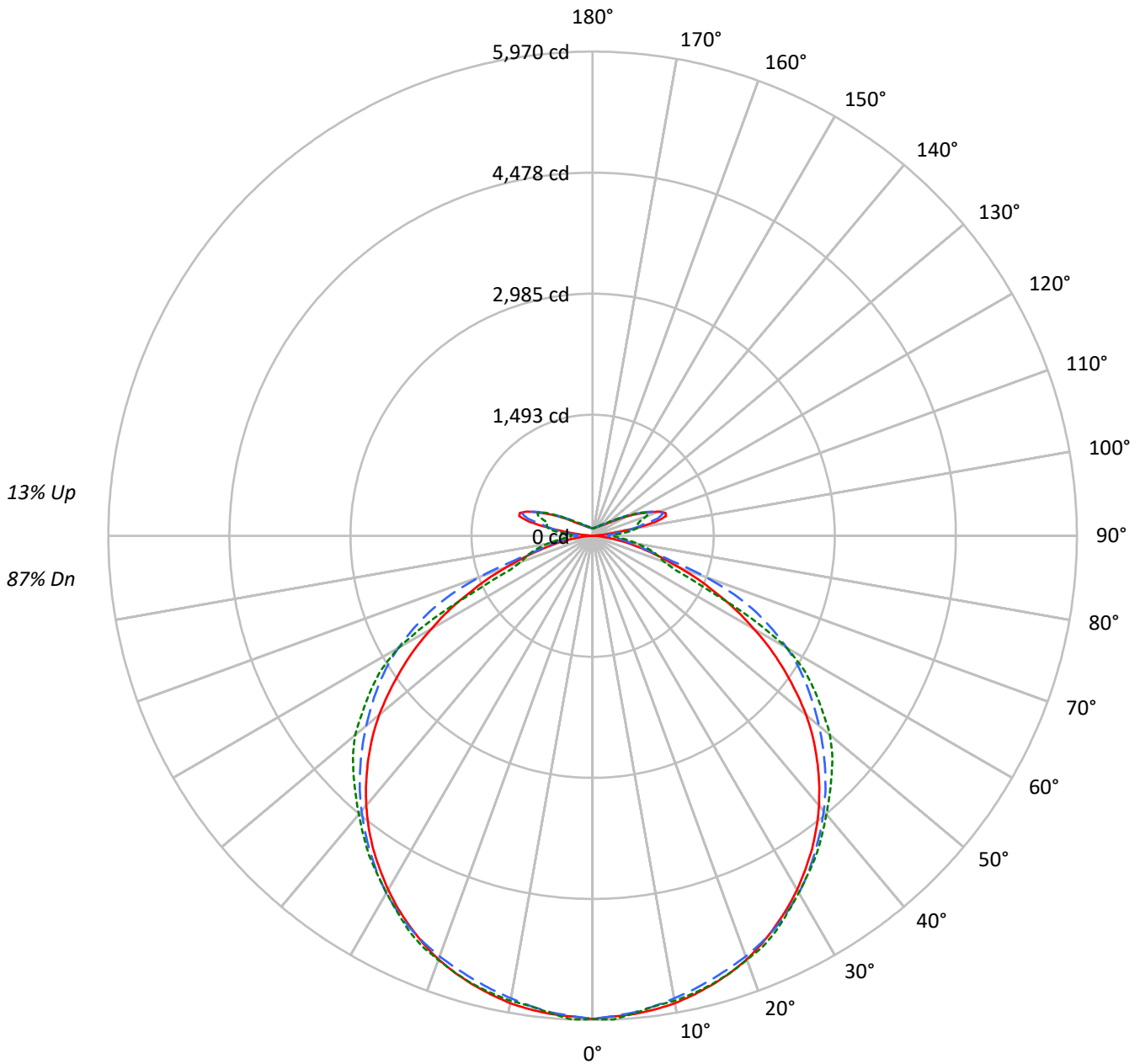
Lumens per Lamp: N/A
Luminaire Lumens: 19090.6 lumens
Efficiency: N/A
Efficacy: 158.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 120.4
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: P826496

CATALOG NUMBER: OHBL-18HE-MCL-UNV-L830-CD-UPL24

Luminous Intensity Polar Plot





TEST NUMBER: P826496

CATALOG NUMBER: OHBL-18HE-MCL-UNV-L830-CD-UPL24

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				20	
RC	80				70				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	116	116	116	116	112	112	112	112	104	104	104	97	97	97	90	90	90	87				87
1	106	102	98	94	102	98	94	91	92	89	86	86	83	81	80	78	77	74				74
2	97	89	82	77	93	86	80	75	80	76	71	75	71	68	70	67	65	62				62
3	88	78	70	64	85	76	68	63	71	65	60	66	62	57	62	58	55	52				52
4	81	69	61	54	78	67	59	53	63	56	51	59	54	49	56	51	47	45				45
5	74	62	53	47	71	60	52	46	56	49	44	53	47	43	50	45	41	39				39
6	69	56	47	41	66	54	46	40	51	44	39	48	42	37	45	40	36	34				34
7	63	50	42	36	61	49	41	35	46	39	34	44	38	33	41	36	32	30				30
8	59	46	37	32	57	45	37	31	42	35	30	40	34	29	38	33	29	27				27
9	55	42	34	29	53	41	33	28	39	32	27	37	31	27	35	30	26	24				24
10	52	39	31	26	50	38	30	25	36	29	25	34	28	24	32	27	23	22				22

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



TEST NUMBER: P826496

CATALOG NUMBER: OHBL-18HE-MCL-UNV-L830-CD-UPL24

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	561.7	2.9
10°-20°	1610.8	8.4
20°-30°	2460.2	12.9
30°-40°	2985.0	15.6
40°-50°	3128.6	16.4
50°-60°	2835.0	14.9
60°-70°	1900.7	10.0
70°-80°	853.5	4.5
80°-90°	315.5	1.7
90°-100°	309.0	1.6
100°-110°	793.0	4.2
110°-120°	664.6	3.5
120°-130°	320.4	1.7
130°-140°	162.6	0.9
140°-150°	95.0	0.5
150°-160°	56.3	0.3
160°-170°	29.7	0.2
170°-180°	9.1	0.0
0°-30°	4632.7	24.3
0°-40°	7617.7	39.9
0°-60°	13581.3	71.1
0°-90°	16651.0	87.2
90°-120°	1766.5	9.3
90°-150°	2344.6	12.3
90°-180°	2440.0	12.8
0°-180°	19090.6	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°	6	105	189	240	255	10
95°	50	149	260	334	365	154
105°	937	943	834	619	576	890
115°	651	661	675	680	677	656
125°	321	338	353	355	353	301
135°	194	198	206	212	215	153
145°	143	147	150	152	154	91
155°	117	119	121	122	121	55
165°	102	104	104	104	104	29
175°	93	94	93	93	93	9
180°	92	92	92	92	92	



TEST NUMBER: P826496

CATALOG NUMBER: OHBL-18HE-MCL-UNV-L830-CD-UPL24

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°	5.5	104.9	189.3	240.3	255.4
92.5°	16.7	97.9	185.8	242.2	260.4
95°	50.2	149.0	260.0	333.6	365.0
97.5°	252.1	307.0	374.8	453.5	487.6
100°	516.3	575.5	509.9	549.7	560.7
102.5°	797.2	813.2	633.6	586.2	581.3
105°	936.8	942.9	834.5	618.7	575.6



TEST NUMBER: P826496

CATALOG NUMBER: OHBL-18HE-MCL-UNV-L830-CD-UPL24

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	757.9	775.2	777.5	763.8	735.8
115°	650.8	660.8	675.4	680.5	676.6
117.5°	557.8	560.5	577.0	581.3	583.9
120°	462.9	473.9	493.6	493.2	488.4
122.5°	389.3	400.5	415.6	418.0	413.3
125°	320.6	338.2	353.3	354.9	353.1
127.5°	273.0	285.1	301.3	304.8	304.8
130°	238.6	246.9	260.6	264.9	265.9
132.5°	213.4	220.8	229.8	237.0	236.1
135°	193.8	198.5	205.8	212.0	214.7
137.5°	178.9	181.7	187.3	194.4	195.2
140°	165.0	168.7	172.4	177.7	179.6
142.5°	152.0	156.6	159.4	163.9	164.7
145°	142.7	147.3	150.1	151.9	153.6
147.5°	135.2	138.9	140.8	142.7	143.5
150°	128.7	130.6	133.3	134.3	135.2
152.5°	122.2	124.0	126.8	127.8	127.8
155°	116.6	119.3	121.2	122.1	121.3
157.5°	111.9	114.6	116.5	117.4	117.4
160°	108.2	110.0	111.9	112.8	112.8
162.5°	105.3	106.3	107.2	108.1	108.1
165°	102.5	103.5	104.4	104.4	104.4
167.5°	99.8	100.6	100.7	101.6	101.6
170°	97.0	97.9	97.9	98.0	98.0
172.5°	95.1	96.0	96.0	95.2	96.1
175°	93.2	94.2	93.3	93.3	93.3
177.5°	94.1	93.2	92.4	91.5	90.6
180°	92.4	92.4	92.4	92.4	92.4



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	941.4	957.2	910.5	729.2	617.4
110°	869.7	886.6	866.3	802.4	712.9



(END OF REPORT)