

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: P826495

Luminaire Tested: **OHBL-18HE-MCL-UNV-L830-CD-UPL18**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P826495
REPORT IS A COMBINATION OF REPORTS P826156 AND G3-2310-221-8
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-UPL18
Description:
Light Source: -
Ballast/Driver: -

Summary

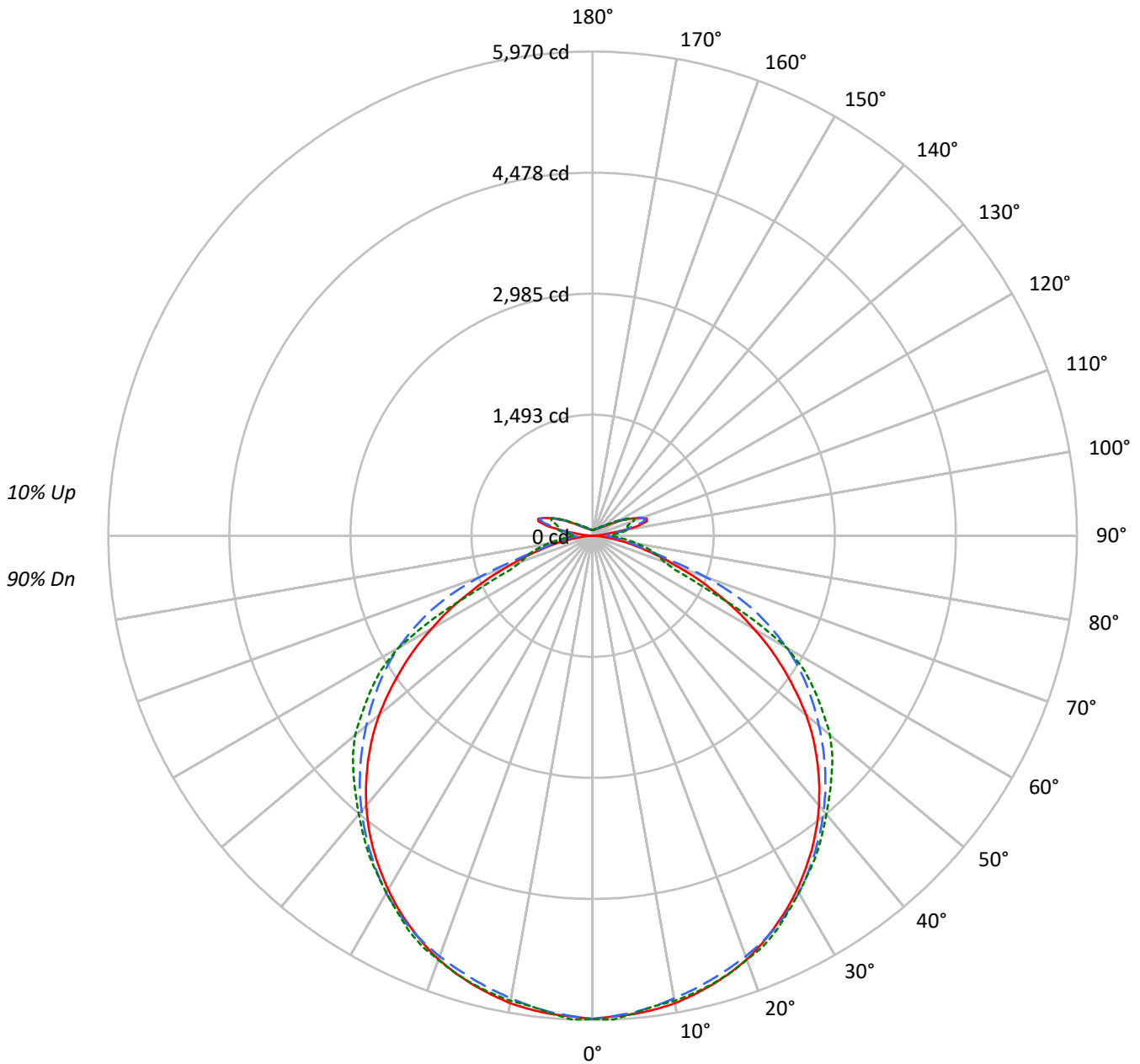
Lumens per Lamp: N/A
Luminaire Lumens: 18504.0 lumens
Efficiency: N/A
Efficacy: 160.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 115.3
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				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	117	117	117	117	113	113	113	113	106	106	106	99	99	99	93	93	93	93	93	93	90
1	107	102	98	94	103	99	95	92	93	90	87	87	85	83	82	80	79	79	79	79	76
2	97	89	83	77	94	87	81	76	82	77	72	77	73	69	72	69	66	66	66	66	64
3	89	79	71	64	86	76	69	63	72	66	61	68	63	59	64	60	56	56	56	56	54
4	81	70	61	55	78	68	60	54	64	57	52	60	55	50	57	52	48	48	48	48	46
5	75	62	53	47	72	61	52	46	57	50	45	54	48	43	51	46	42	42	42	42	40
6	69	56	47	41	66	54	46	40	52	45	39	49	43	38	47	41	37	37	37	37	35
7	64	51	42	36	62	49	41	36	47	40	35	45	38	34	43	37	33	33	33	33	31
8	59	46	38	32	57	45	37	32	43	36	31	41	35	30	39	33	29	29	29	29	27
9	55	42	34	29	54	41	34	28	39	33	28	38	32	27	36	30	26	26	26	26	25
10	52	39	31	26	50	38	31	26	36	30	25	35	29	25	33	28	24	24	24	24	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



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	561.7	3.0
10°-20°	1610.8	8.7
20°-30°	2460.2	13.3
30°-40°	2985.0	16.1
40°-50°	3128.6	16.9
50°-60°	2835.0	15.3
60°-70°	1900.7	10.3
70°-80°	853.5	4.6
80°-90°	313.9	1.7
90°-100°	252.6	1.4
100°-110°	597.3	3.2
110°-120°	497.5	2.7
120°-130°	240.5	1.3
130°-140°	122.4	0.7
140°-150°	71.8	0.4
150°-160°	42.8	0.2
160°-170°	22.7	0.1
170°-180°	7.0	0.0
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0°-30°	4632.7	25.0
0°-40°	7617.7	41.2
0°-60°	13581.3	73.4
0°-90°	16649.5	90.0
90°-120°	1347.3	7.3
90°-150°	1782.1	9.6
90°-180°	1855.0	10.0
0°-180°	18504.0	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°	5	96	177	224	238	10
95°	36	122	220	277	303	112
105°	693	703	632	470	441	658
115°	484	493	507	508	509	488
125°	239	251	266	267	266	225
135°	145	149	155	161	163	115
145°	108	111	114	116	116	69
155°	89	91	92	93	92	42
165°	78	79	79	80	80	22
175°	72	72	72	71	71	7
180°	71	71	71	71	71	



TEST NUMBER: P826495

CATALOG NUMBER: OHBL-18HE-MCL-UNV-L830-CD-UPL18

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°	4.6	96.5	177.2	224.4	237.8
92.5°	12.9	86.7	170.0	218.0	231.5
95°	36.2	122.0	220.0	276.8	302.6
97.5°	183.2	234.4	305.0	363.2	381.5
100°	376.7	422.8	399.2	429.6	437.8
102.5°	588.8	608.5	481.0	452.2	449.2
105°	693.0	702.8	631.7	469.8	440.7



TEST NUMBER: P826495

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	566.2	576.0	582.1	574.9	553.4
115°	484.3	493.3	507.0	508.4	509.1
117.5°	413.5	418.1	432.8	436.2	438.8
120°	346.5	353.9	368.9	370.4	369.3
122.5°	290.7	299.1	313.2	314.7	313.7
125°	238.7	250.7	265.9	267.4	266.5
127.5°	204.2	212.5	227.8	229.5	228.5
130°	178.1	185.5	195.4	199.8	200.7
132.5°	161.3	165.0	173.1	177.5	179.3
135°	145.4	149.2	154.7	160.8	162.6
137.5°	134.3	137.1	140.8	146.9	148.7
140°	124.0	126.8	128.7	134.0	135.9
142.5°	114.7	118.5	120.3	123.9	125.6
145°	108.2	111.0	113.8	115.6	116.4
147.5°	102.6	104.5	106.4	108.2	109.1
150°	97.1	98.9	100.8	101.7	102.6
152.5°	93.3	94.3	96.1	97.1	97.1
155°	88.7	91.4	92.3	93.2	92.4
157.5°	85.9	87.7	88.6	89.5	89.5
160°	83.1	83.9	84.9	85.8	85.8
162.5°	81.1	81.1	82.1	83.0	83.0
165°	78.4	79.3	79.3	80.2	80.2
167.5°	76.5	77.3	77.4	77.4	78.4
170°	74.6	74.6	75.6	74.7	74.7
172.5°	72.8	73.7	73.7	72.9	72.9
175°	71.8	71.8	71.9	71.0	71.0
177.5°	71.7	71.8	71.0	70.1	69.2
180°	71.0	71.0	71.0	71.0	71.0



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	700.3	712.4	684.3	549.6	470.4
110°	642.6	658.6	652.3	604.2	541.7



(END OF REPORT)