

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: P826491

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P826491
REPORT IS A COMBINATION OF REPORTS P826059 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-A-UNV-L830-CD-UPL12
Description:
Light Source: -
Ballast/Driver: -

Summary

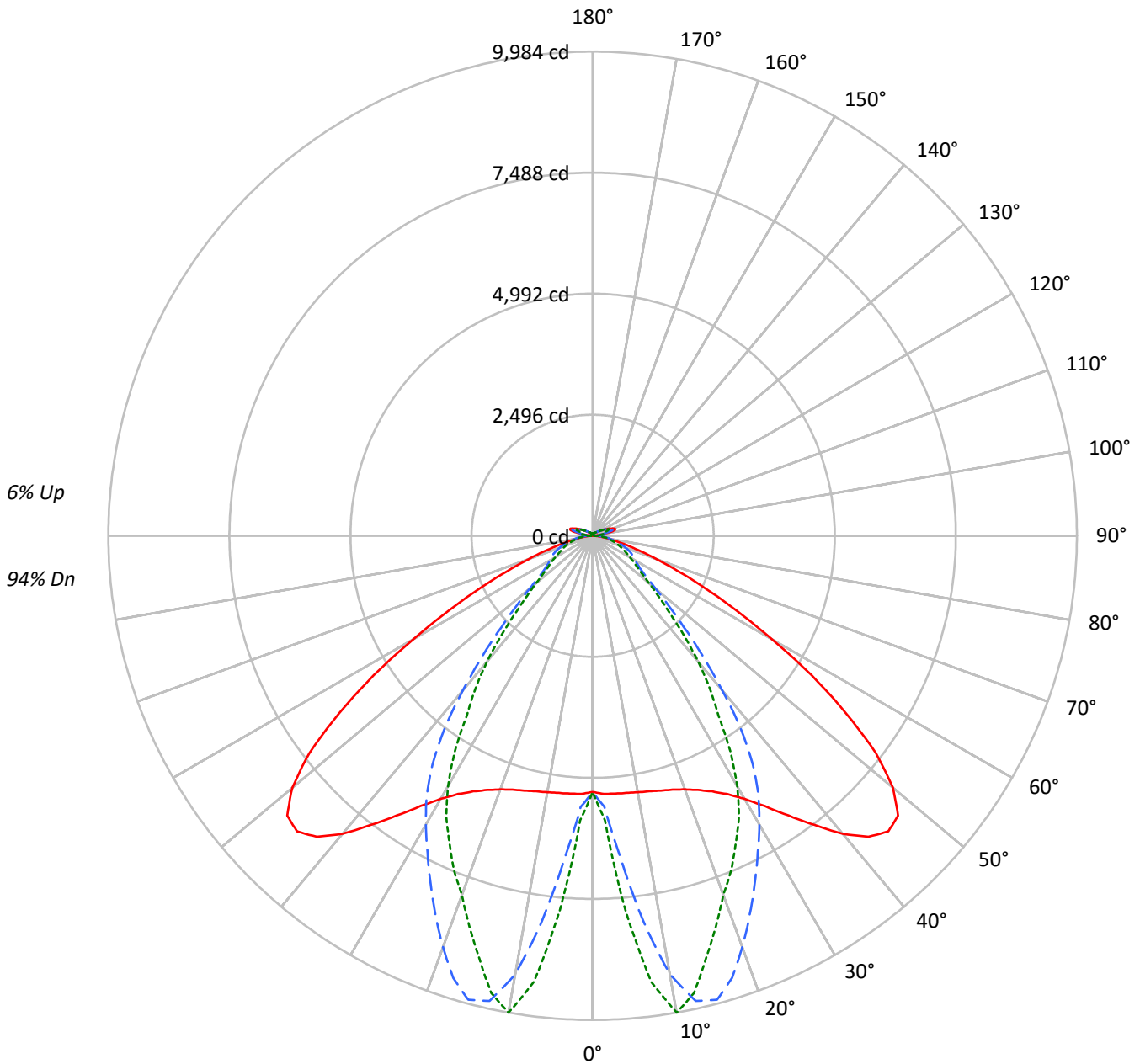
Lumens per Lamp: N/A
Luminaire Lumens: 18113.6 lumens
Efficiency: N/A
Efficacy: 162.6 lumens/watt
Spacing Criteria (0/90/45): 2.18 / 1.37 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')
CIE Type: Direct

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

TEST NUMBER: P826491

CATALOG NUMBER: OHBL-18HE-A-UNV-L830-CD-UPL12

Luminous Intensity Polar Plot





TEST NUMBER: P826491

CATALOG NUMBER: OHBL-18HE-A-UNV-L830-CD-UPL12

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	114	114	114	114	108	108	108	102	102	102	96	96	96	94																			
1	109	105	102	98	106	102	99	96	97	94	92	92	90	88	87	86	84	82																			
2	101	94	88	83	98	92	86	82	87	83	79	83	79	76	79	76	74	71																			
3	93	84	77	72	90	82	76	71	78	73	69	75	71	67	72	68	65	63																			
4	86	76	68	63	84	74	67	62	71	65	60	68	63	59	65	61	57	55																			
5	80	69	61	55	78	67	60	55	65	58	53	62	57	52	60	55	51	49																			
6	75	63	55	49	72	62	54	49	59	53	48	57	51	47	55	50	46	44																			
7	70	57	50	44	68	56	49	44	54	48	43	52	47	42	51	46	42	40																			
8	65	53	45	40	63	52	45	40	50	44	39	48	43	38	47	42	38	36																			
9	61	49	41	36	59	48	41	36	46	40	36	45	39	35	44	38	35	33																			
10	57	45	38	33	56	45	38	33	43	37	33	42	36	32	41	35	32	30																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9024	9024	9024
5°	9070	11350	13229
10°	9151	15648	17183
15°	9369	17046	15771
20°	9756	15817	14094
25°	10468	14225	12892
30°	11673	12808	11464
35°	13722	11210	9135
40°	16500	8537	7270
45°	18927	5816	5175
50°	19188	3990	3827
55°	16609	3140	3127
60°	12406	2938	2813
65°	8504	2947	2664
70°	5437	2843	2581
75°	3270	2631	2469
80°	1924	2312	2547
85°	925	1985	2362



TEST NUMBER: P826491

CATALOG NUMBER: OHBL-18HE-A-UNV-L830-CD-UPL12

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	689.8	3.8
10°-20°	2434.5	13.4
20°-30°	3587.4	19.8
30°-40°	3769.8	20.8
40°-50°	2884.6	15.9
50°-60°	1741.9	9.6
60°-70°	1062.9	5.9
70°-80°	580.2	3.2
80°-90°	206.6	1.1
90°-100°	110.7	0.6
100°-110°	385.2	2.1
110°-120°	330.9	1.8
120°-130°	158.6	0.9
130°-140°	79.3	0.4
140°-150°	46.1	0.3
150°-160°	26.9	0.1
160°-170°	14.0	0.1
170°-180°	4.2	0.0
0°-30°	6711.7	37.1
0°-40°	10481.6	57.9
0°-60°	15108.0	83.4
0°-90°	16957.7	93.6
90°-120°	826.7	4.6
90°-150°	1110.8	6.1
90°-180°	1156.0	6.4
0°-180°	18113.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5284	5284	5284	5284	5284	
5°	5337	5725	6679	7458	7746	510
15°	5441	8474	9904	9241	9024	1547
25°	5814	9835	7907	7158	6982	2717
35°	7042	7876	5760	4797	4516	4467
45°	8619	4494	2653	2335	2237	6512
55°	6374	1524	1208	1120	1116	5633
65°	2556	965	889	760	722	2618
75°	680	600	550	454	436	783
85°	101	186	219	200	181	125
90°	3	17	22	29	33	7
95°	23	54	80	108	125	76
105°	481	476	406	288	264	455
115°	335	335	336	333	328	335
125°	164	170	174	172	173	153
135°	95	98	101	102	102	76
145°	70	72	73	74	74	44
155°	56	57	58	59	59	26
165°	48	48	49	49	49	14
175°	44	44	44	44	44	4
180°	43	43	43	43	43	



TEST NUMBER: P826491

CATALOG NUMBER: OHBL-18HE-A-UNV-L830-CD-UPL12

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5283.5	5283.5	5283.5	5283.5	5283.5
2.5°	5326.9	5381.2	5595.5	5818.0	5872.2
5°	5336.6	5725.3	6679.0	7457.7	7745.5
7.5°	5347.9	6282.9	8021.4	8974.7	9280.0
10°	5369.4	6988.0	9184.6	9869.0	9984.4
12.5°	5396.2	7735.1	9824.6	9799.7	9654.2
15°	5440.6	8473.8	9903.5	9241.4	9024.2
17.5°	5487.2	9099.0	9559.6	8633.8	8444.6
20°	5563.1	9562.9	9024.6	8093.7	7878.6
22.5°	5672.6	9818.1	8463.7	7605.2	7464.9
25°	5813.7	9834.6	7906.6	7158.2	6981.5
27.5°	6002.9	9606.5	7372.5	6720.2	6533.5
30°	6260.3	9169.6	6876.3	6192.1	5960.6
32.5°	6609.9	8540.9	6364.7	5554.5	5294.9
35°	7042.2	7875.7	5760.0	4796.9	4516.4
37.5°	7513.9	7137.1	5026.2	4126.0	3962.7
40°	8021.4	6376.1	4156.4	3498.2	3381.3
42.5°	8417.4	5548.6	3348.4	2907.1	2782.7
45°	8619.3	4493.9	2653.3	2334.8	2236.7
47.5°	8540.6	3488.5	2103.4	1855.2	1825.7
50°	8081.9	2575.9	1683.8	1528.2	1516.0
52.5°	7364.6	1919.9	1390.9	1294.6	1273.6
55°	6374.2	1523.9	1207.9	1119.5	1116.1
57.5°	5351.7	1294.6	1096.4	1027.9	1004.2
60°	4261.0	1154.4	1011.9	934.6	886.4
62.5°	3340.0	1056.3	949.7	844.9	799.8
65°	2555.5	964.7	888.6	760.4	721.6
67.5°	1904.9	877.5	813.9	671.6	648.9
70°	1387.9	788.0	728.6	597.2	579.4
72.5°	989.2	698.8	643.5	527.4	507.7
75°	680.4	599.9	550.3	454.0	435.7
77.5°	459.0	499.2	458.6	387.7	379.9
80°	306.5	395.9	370.9	328.5	323.7
82.5°	186.0	287.3	292.8	267.2	254.2
85°	101.2	186.0	219.3	199.8	181.3
87.5°	39.6	103.1	151.1	135.7	127.8
90°	2.8	16.8	22.3	28.8	32.6
92.5°	8.4	21.4	35.4	50.2	54.9
95°	23.3	54.0	80.0	107.9	124.7
97.5°	125.6	136.8	154.5	182.4	191.7
100°	256.8	276.4	229.8	240.1	244.7
102.5°	408.5	402.9	294.1	266.1	261.5
105°	481.1	475.5	405.7	287.5	264.3



TEST NUMBER: P826491

CATALOG NUMBER: OHBL-18HE-A-UNV-L830-CD-UPL12

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	389.0	391.8	389.0	374.1	358.3
115°	335.0	335.0	335.9	333.1	327.6
117.5°	281.0	284.8	287.5	284.8	282.9
120°	235.4	241.0	242.9	239.2	239.2
122.5°	198.2	202.9	205.7	202.9	203.8
125°	163.8	170.3	174.0	172.2	173.1
127.5°	136.8	142.4	148.9	148.0	148.0
130°	119.1	122.8	127.5	128.4	128.4
132.5°	106.1	108.9	112.6	113.5	114.5
135°	94.9	97.7	101.4	102.4	102.4
137.5°	87.5	89.3	92.1	93.1	94.0
140°	80.0	82.8	84.7	85.6	85.6
142.5°	74.4	76.3	78.2	79.1	80.0
145°	69.8	71.7	72.6	73.5	74.4
147.5°	65.1	67.0	68.9	68.9	69.8
150°	62.3	63.3	64.2	65.1	65.1
152.5°	58.6	59.6	60.5	61.4	61.4
155°	55.8	56.8	57.7	58.6	58.6
157.5°	53.0	54.9	54.9	55.8	55.8
160°	51.2	52.1	53.0	53.0	53.0
162.5°	49.3	50.2	50.2	51.2	51.2
165°	48.4	48.4	49.3	49.3	49.3
167.5°	46.5	46.5	47.5	47.5	47.5
170°	45.6	45.6	45.6	46.5	46.5
172.5°	44.7	44.7	44.7	44.7	44.7
175°	43.7	43.7	43.7	43.7	43.7
177.5°	42.8	43.7	43.7	43.7	43.7
180°	42.8	42.8	42.8	42.8	42.8



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	483.9	485.8	447.6	347.1	287.5
110°	442.9	449.5	429.0	390.8	343.4



(END OF REPORT)