

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: P826537

Luminaire Tested: **OHBL-24HE-N-UNV-L830-CD-UPL24**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P826537
REPORT IS A COMBINATION OF REPORTS P826242 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-24HE-N-UNV-L830-CD-UPL24
Description:
Light Source: -
Ballast/Driver: -

Summary

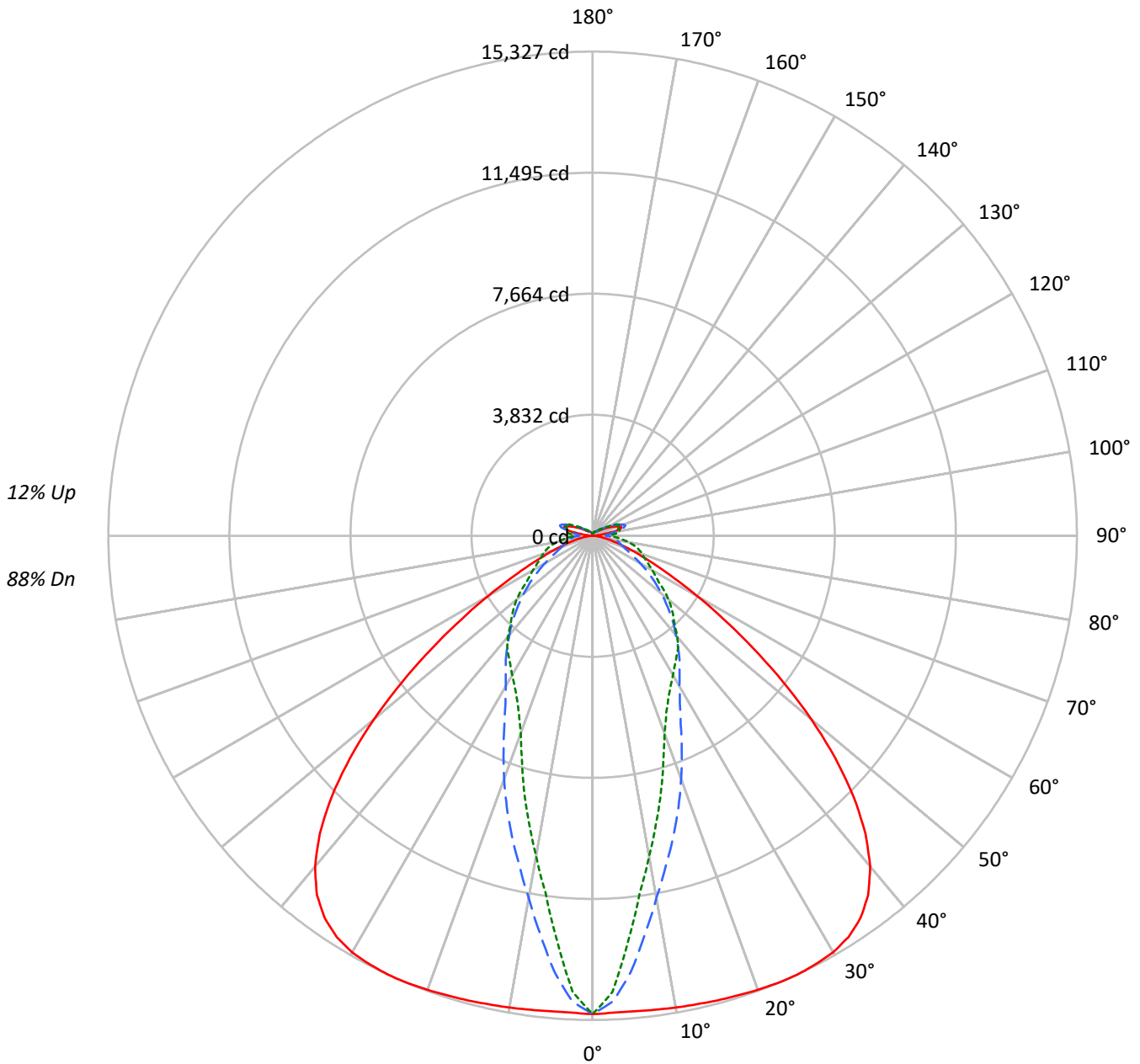
Lumens per Lamp: N/A
Luminaire Lumens: 24599.5 lumens
Efficiency: N/A
Efficacy: 163.6 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 150.4
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: P826537

CATALOG NUMBER: OHBL-24HE-N-UNV-L830-CD-UPL24

Luminous Intensity Polar Plot





TEST NUMBER: P826537

CATALOG NUMBER: OHBL-24HE-N-UNV-L830-CD-UPL24

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	116	116	116	116	112	112	112	112	104	104	104	97	97	97	91	91	91	88																			
1	107	102	98	95	103	99	95	92	92	90	87	87	84	82	81	79	78	75																			
2	98	91	85	79	94	88	82	77	82	78	74	77	74	70	73	70	67	64																			
3	90	81	74	68	87	78	72	66	74	68	64	70	65	61	66	62	59	56																			
4	84	73	65	59	80	71	63	58	67	61	56	63	58	54	60	55	52	49																			
5	77	66	58	52	75	64	56	51	61	54	49	57	52	48	54	50	46	44																			
6	72	60	52	46	69	58	51	45	55	49	44	53	47	43	50	45	41	39																			
7	67	55	47	41	65	53	46	41	51	44	40	48	43	39	46	41	37	35																			
8	63	50	43	37	61	49	42	37	47	41	36	45	39	35	43	38	34	32																			
9	59	47	39	34	57	46	38	34	44	37	33	42	36	32	40	35	31	30																			
10	56	43	36	31	54	42	36	31	41	34	30	39	33	30	37	32	29	27																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	23946	23946	23946
5°	23796	21817	20374
10°	23963	18385	16417
15°	24326	15731	13541
20°	24898	13308	11009
25°	25639	11020	9698
30°	26392	9499	9062
35°	26794	8662	8688
40°	26176	7829	8300
45°	23914	7080	7745
50°	20015	6260	7337
55°	15062	5488	6601
60°	10429	4713	6407
65°	6906	4065	6385
70°	4616	3822	6865
75°	3102	3954	7607
80°	2022	4400	8326
85°	1054	5553	9929



TEST NUMBER: P826537

CATALOG NUMBER: OHBL-24HE-N-UNV-L830-CD-UPL24

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1274.6	5.2
10°-20°	2998.4	12.2
20°-30°	3758.5	15.3
30°-40°	3988.2	16.2
40°-50°	3605.9	14.7
50°-60°	2614.5	10.6
60°-70°	1640.7	6.7
70°-80°	1085.8	4.4
80°-90°	631.3	2.6
90°-100°	518.8	2.1
100°-110°	958.2	3.9
110°-120°	771.6	3.1
120°-130°	370.8	1.5
130°-140°	183.0	0.7
140°-150°	105.1	0.4
150°-160°	58.9	0.2
160°-170°	27.0	0.1
170°-180°	8.2	0.0
<hr/>		
0°-30°	8031.5	32.6
0°-40°	12019.6	48.9
0°-60°	18240.1	74.1
0°-90°	21597.9	87.8
90°-120°	2248.6	9.1
90°-150°	2907.4	11.8
90°-180°	3002.0	12.2
0°-180°	24599.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	15141	15141	15141	15141	15141	
5°	15111	14724	13859	13216	12883	###
15°	15226	12411	9857	8766	8368	4318
25°	15327	9596	6600	5858	5672	7081
35°	14778	6380	4790	4640	4639	9187
45°	11683	4041	3472	3555	3616	8900
55°	6185	2505	2265	2457	2545	5588
65°	2212	1453	1311	1680	1868	2302
75°	683	782	880	1368	1450	761
85°	120	324	644	896	823	143
90°	5	167	417	584	594	11
95°	55	198	489	659	707	158
105°	945	986	1025	876	839	897
115°	660	695	812	850	849	665
125°	332	354	420	441	436	310
135°	200	207	232	254	256	158
145°	152	157	163	176	175	96
155°	125	131	135	137	134	56
165°	93	94	95	95	95	27
175°	84	85	85	86	86	8
180°	84	84	84	84	84	



TEST NUMBER: P826537

CATALOG NUMBER: OHBL-24HE-N-UNV-L830-CD-UPL24

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	15141.4	15141.4	15141.4	15141.4	15141.4
2.5°	15109.8	15023.4	14753.9	14589.5	14451.2
5°	15111.2	14723.5	13859.0	13216.2	12883.3
7.5°	15132.9	14271.1	12713.2	11775.1	11409.1
10°	15166.0	13710.5	11643.9	10643.9	10302.3
12.5°	15190.5	13079.3	10703.0	9675.5	9300.8
15°	15226.5	12410.6	9857.0	8766.1	8368.4
17.5°	15259.6	11780.8	9021.2	7881.3	7438.9
20°	15292.8	11102.1	8185.4	7010.9	6646.3
22.5°	15324.5	10385.9	7369.7	6335.0	6085.7
25°	15327.4	9596.2	6600.2	5858.0	5672.1
27.5°	15290.0	8777.7	5976.2	5458.8	5343.5
30°	15225.1	7983.6	5492.0	5170.6	5088.5
32.5°	15063.6	7173.7	5117.3	4892.5	4844.9
35°	14778.3	6379.7	4790.1	4640.3	4638.8
37.5°	14328.7	5675.0	4435.7	4409.7	4441.4
40°	13664.4	5058.2	4099.8	4169.1	4169.1
42.5°	12778.1	4522.1	3795.8	3866.5	3847.7
45°	11682.8	4040.8	3471.5	3555.2	3615.7
47.5°	10413.3	3617.2	3140.2	3301.5	3385.1
50°	9032.7	3213.6	2837.5	3043.6	3138.7
52.5°	7585.9	2840.3	2542.1	2778.5	2854.8
55°	6185.1	2504.6	2265.3	2457.0	2545.0
57.5°	4917.0	2184.7	1994.5	2176.0	2357.7
60°	3826.1	1909.4	1739.4	1998.7	2180.4
62.5°	2922.5	1664.5	1500.1	1833.1	2014.7
65°	2212.0	1452.6	1311.4	1680.3	1867.6
67.5°	1667.4	1269.6	1164.4	1569.4	1752.3
70°	1252.3	1092.4	1046.2	1500.1	1664.5
72.5°	925.2	929.5	952.5	1439.7	1565.0
75°	683.1	782.5	880.5	1367.5	1449.7
77.5°	488.5	648.5	815.6	1281.1	1309.9
80°	338.6	528.8	747.9	1167.3	1142.8
82.5°	211.8	423.7	687.4	1041.9	974.2
85°	119.6	324.2	644.1	896.3	822.9
87.5°	53.3	242.1	563.5	698.9	652.8
90°	4.7	167.1	417.0	583.6	594.5
92.5°	18.7	154.3	411.4	576.2	602.7
95°	55.1	198.4	488.6	658.9	707.0
97.5°	257.5	354.4	599.6	767.7	815.7
100°	522.3	620.2	724.1	847.2	870.0
102.5°	803.8	858.3	835.9	862.8	866.9
105°	944.9	986.5	1024.6	876.3	839.4



TEST NUMBER: P826537

CATALOG NUMBER: OHBL-24HE-N-UNV-L830-CD-UPL24

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	766.3	812.1	928.3	954.5	931.9
115°	659.8	695.1	811.8	850.3	849.1
117.5°	568.2	590.7	696.8	731.9	734.2
120°	473.3	500.8	595.6	621.2	615.7
122.5°	399.8	422.5	500.1	522.7	515.7
125°	331.8	354.4	420.0	440.6	436.4
127.5°	282.0	296.9	353.8	374.9	372.6
130°	247.5	257.9	301.8	322.9	323.8
132.5°	220.1	229.5	262.0	285.8	284.8
135°	200.5	207.1	232.4	254.4	256.3
137.5°	184.7	191.8	208.9	230.5	230.5
140°	170.8	177.4	190.7	209.8	210.8
142.5°	160.1	165.3	174.8	191.0	191.0
145°	152.2	157.4	163.0	175.5	175.0
147.5°	143.9	150.5	153.7	162.8	161.4
150°	137.4	143.5	146.3	151.6	151.0
152.5°	130.8	137.0	139.8	143.6	142.2
155°	125.3	131.4	134.7	137.1	134.2
157.5°	103.3	105.2	107.0	107.9	107.9
160°	99.6	100.5	102.4	103.3	103.3
162.5°	95.8	96.8	97.7	98.6	98.6
165°	93.1	94.0	94.9	94.9	94.9
167.5°	90.3	90.3	91.2	92.1	92.1
170°	87.5	88.4	88.4	89.3	89.3
172.5°	85.6	86.5	86.5	86.5	87.5
175°	83.8	84.7	84.7	85.6	85.6
177.5°	83.8	83.8	83.8	83.8	83.8
180°	83.8	83.8	83.8	83.8	83.8



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	948.6	999.9	1087.3	962.3	858.8
110°	877.4	926.2	1031.3	1013.0	931.9



(END OF REPORT)