

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: P826528

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

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P826528  
REPORT IS A COMBINATION OF REPORTS P826239 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-A-UNV-L830-CD-UPL24  
Description:  
Light Source: -  
Ballast/Driver: -

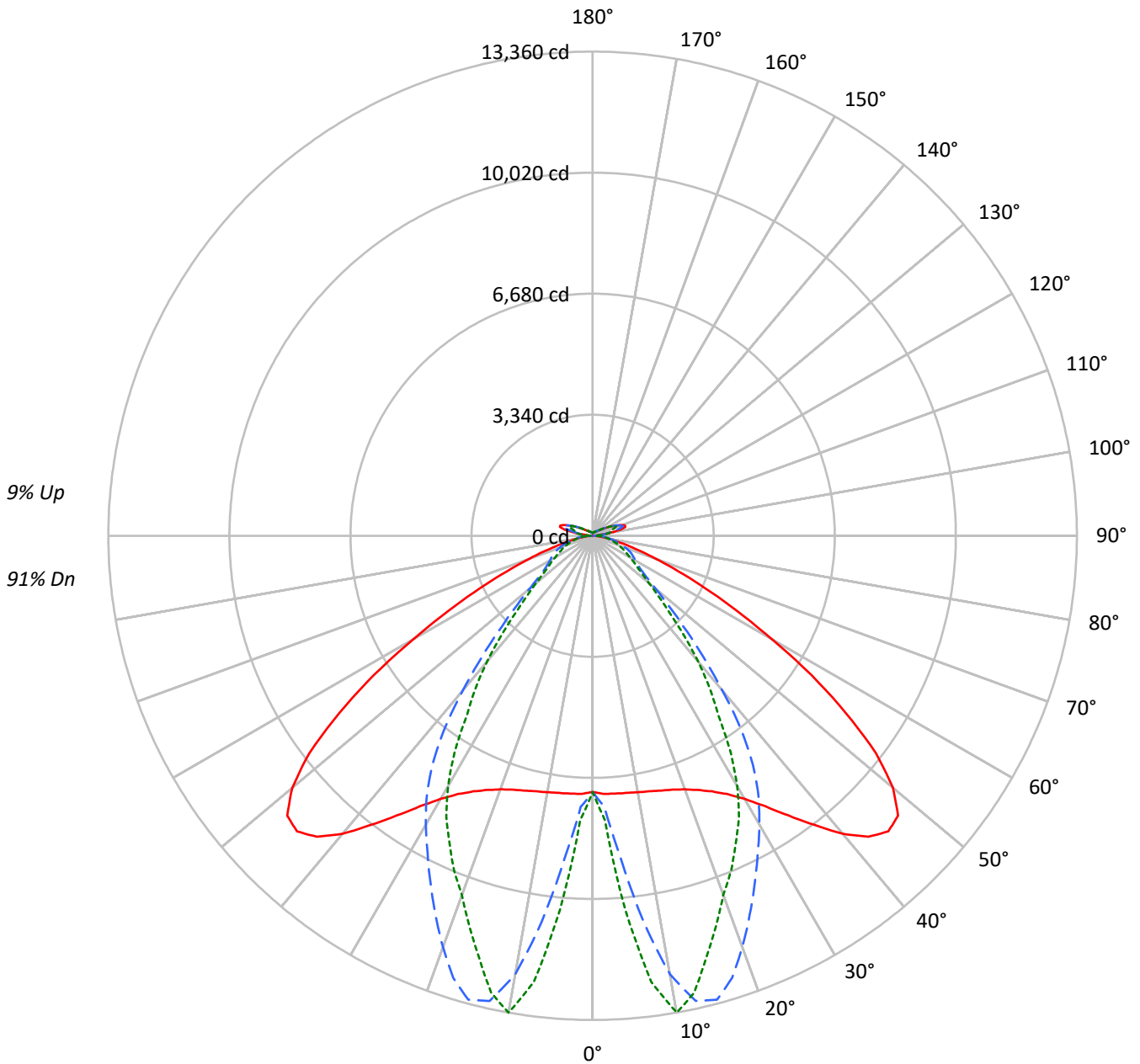
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24940.1 lumens  
Efficiency: N/A  
Efficacy: 165.8 lumens/watt  
Spacing Criteria (0/90/45): 2.18 / 1.37 / 1.3  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 150.4  
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: P826528

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

### Luminous Intensity Polar Plot





TEST NUMBER: P826528

CATALOG NUMBER: OHBL-24HE-A-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	117	117	117	117	113	113	113	113	106	106	106	100	100	100	94	94	94	91																			
1	108	104	101	98	105	101	98	95	96	93	91	90	88	86	85	84	82	80																			
2	100	93	88	83	97	91	85	81	86	82	78	81	78	75	77	74	72	69																			
3	93	84	77	71	90	81	75	70	77	72	68	74	69	65	70	66	63	61																			
4	86	75	68	62	83	74	67	61	70	64	59	67	62	58	64	60	56	54																			
5	80	68	60	55	77	67	59	54	64	57	53	61	56	51	58	54	50	48																			
6	74	62	54	49	72	61	53	48	58	52	47	56	50	46	54	49	45	43																			
7	69	57	49	44	67	56	48	43	53	47	42	51	46	41	49	44	41	39																			
8	65	52	45	39	63	51	44	39	49	43	38	47	42	38	46	41	37	35																			
9	61	48	41	36	59	47	40	36	46	39	35	44	38	34	42	37	34	32																			
10	57	45	38	33	55	44	37	32	42	36	32	41	35	31	40	35	31	29																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	11181	11181	11181
5°	11245	14069	16391
10°	11353	19406	21290
15°	11631	21150	19540
20°	12120	19633	17463
25°	13013	17665	15973
30°	14521	15915	14204
35°	17085	13938	11319
40°	20562	10621	9008
45°	23610	7241	6411
50°	23963	4971	4742
55°	20771	3916	3874
60°	15542	3668	3485
65°	10676	3686	3301
70°	6846	3562	3197
75°	4134	3307	3059
80°	2449	2920	3157
85°	1194	2530	2926



TEST NUMBER: P826528

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

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	923.0	3.7
10°-20°	3257.8	13.1
20°-30°	4800.5	19.2
30°-40°	5044.6	20.2
40°-50°	3860.0	15.5
50°-60°	2330.8	9.3
60°-70°	1422.4	5.7
70°-80°	776.3	3.1
80°-90°	278.2	1.1
90°-100°	215.8	0.9
100°-110°	749.0	3.0
110°-120°	642.5	2.6
120°-130°	308.2	1.2
130°-140°	154.2	0.6
140°-150°	89.4	0.4
150°-160°	52.1	0.2
160°-170°	27.0	0.1
170°-180°	8.2	0.0
0°-30°	8981.3	36.0
0°-40°	14025.8	56.2
0°-60°	20216.7	81.1
0°-90°	22693.6	91.0
90°-120°	1607.3	6.4
90°-150°	2159.2	8.7
90°-180°	2246.0	9.0
0°-180°	24940.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7070	7070	7070	7070	7070	
5°	7141	7661	8937	9980	10364	683
15°	7280	11339	13252	12366	12076	2070
25°	7780	13160	10580	9579	9342	3636
35°	9424	10539	7708	6419	6044	5978
45°	11534	6014	3550	3124	2993	8715
55°	8530	2039	1616	1498	1493	7537
65°	3420	1291	1189	1018	966	3504
75°	910	803	736	608	583	1048
85°	136	249	294	267	242	167
90°	5	32	44	58	64	11
95°	49	103	160	212	240	153
105°	933	923	785	559	514	886
115°	644	650	650	649	643	649
125°	314	331	338	337	334	295
135°	186	190	196	198	200	147
145°	135	139	141	142	143	86
155°	108	110	112	113	113	51
165°	93	94	95	95	95	27
175°	84	85	85	86	86	8
180°	84	84	84	84	84	



TEST NUMBER: P826528

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

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	7070.2	7070.2	7070.2	7070.2	7070.2
2.5°	7128.1	7200.8	7487.6	7785.4	7857.8
5°	7141.1	7661.4	8937.4	9979.5	10364.5
7.5°	7156.3	8407.5	10733.8	12009.6	12418.0
10°	7185.1	9351.0	12290.3	13206.3	13360.5
12.5°	7220.8	10350.6	13146.8	13113.5	12918.8
15°	7280.3	11339.2	13252.3	12366.4	12075.6
17.5°	7342.7	12175.7	12792.1	11553.3	11300.1
20°	7444.3	12796.6	12076.3	10830.5	10542.8
22.5°	7590.7	13138.0	11325.6	10176.8	9989.1
25°	7779.6	13160.1	10580.0	9578.7	9342.2
27.5°	8032.7	12854.8	9865.5	8992.6	8742.8
30°	8377.1	12270.3	9201.5	8285.9	7976.1
32.5°	8844.9	11429.0	8516.9	7432.7	7085.3
35°	9423.5	10538.8	7707.8	6419.0	6043.6
37.5°	10054.7	9550.5	6725.8	5521.2	5302.6
40°	10733.8	8532.1	5561.8	4681.1	4524.6
42.5°	11263.7	7424.9	4480.7	3890.1	3723.6
45°	11533.9	6013.6	3550.5	3124.2	2993.0
47.5°	11428.7	4668.0	2814.7	2482.4	2443.0
50°	10814.7	3446.9	2253.2	2045.0	2028.6
52.5°	9854.9	2569.2	1861.2	1732.4	1704.2
55°	8529.7	2039.2	1616.3	1498.0	1493.4
57.5°	7161.4	1732.4	1467.1	1375.5	1343.7
60°	5701.9	1544.7	1354.0	1250.6	1186.1
62.5°	4469.5	1413.4	1271.0	1130.5	1070.2
65°	3419.6	1291.0	1189.1	1017.5	965.6
67.5°	2549.2	1174.2	1089.0	898.6	868.3
70°	1857.3	1054.5	975.0	799.2	775.2
72.5°	1323.7	935.0	861.0	705.8	679.4
75°	910.5	802.8	736.4	607.6	583.0
77.5°	614.3	667.9	613.6	518.8	508.5
80°	410.2	529.7	496.3	439.6	433.3
82.5°	248.9	384.4	391.7	357.4	340.2
85°	135.5	248.9	293.5	267.4	242.5
87.5°	53.0	137.9	202.2	181.6	171.0
90°	4.7	31.6	43.7	57.7	64.2
92.5°	15.8	41.9	67.0	94.9	107.0
95°	49.3	103.3	160.1	212.2	240.1
97.5°	250.3	270.8	291.3	352.7	383.4
100°	513.7	545.3	440.2	465.3	473.7
102.5°	793.8	789.1	575.1	515.5	508.1
105°	933.3	923.1	785.4	559.3	513.7



TEST NUMBER: P826528

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

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	751.9	763.1	748.2	726.8	697.0
115°	643.9	650.5	650.5	648.6	643.0
117.5°	550.9	551.8	555.5	554.6	555.5
120°	456.0	466.2	474.6	469.9	464.3
122.5°	382.5	393.6	399.2	397.3	391.8
125°	314.5	331.3	337.8	336.9	334.1
127.5°	266.1	278.2	287.5	288.5	287.5
130°	231.7	239.2	248.5	249.4	250.3
132.5°	205.7	212.2	218.7	222.4	221.5
135°	186.1	189.8	196.3	198.2	200.1
137.5°	170.3	173.1	178.7	181.5	181.5
140°	156.3	160.1	164.7	166.6	167.5
142.5°	144.2	148.0	151.7	153.5	153.5
145°	134.9	138.7	141.4	142.4	143.3
147.5°	126.6	130.3	132.1	134.0	134.0
150°	120.0	121.9	124.7	125.6	126.6
152.5°	113.5	115.4	118.2	119.1	119.1
155°	107.9	109.8	111.7	112.6	112.6
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°	937.1	940.8	868.2	678.4	564.8
110°	864.5	872.9	831.0	759.3	668.1



(END OF REPORT)