

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: P826529

Luminaire Tested: **OHBL-24HE-A-UNV-L830-CD-UPL36**

Issue Date: 5/3/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P826529  
REPORT IS A COMBINATION OF REPORTS P826299 AND G3-2310-221-2  
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-UPL36  
Description:  
Light Source: -  
Ballast/Driver: -

**Summary**

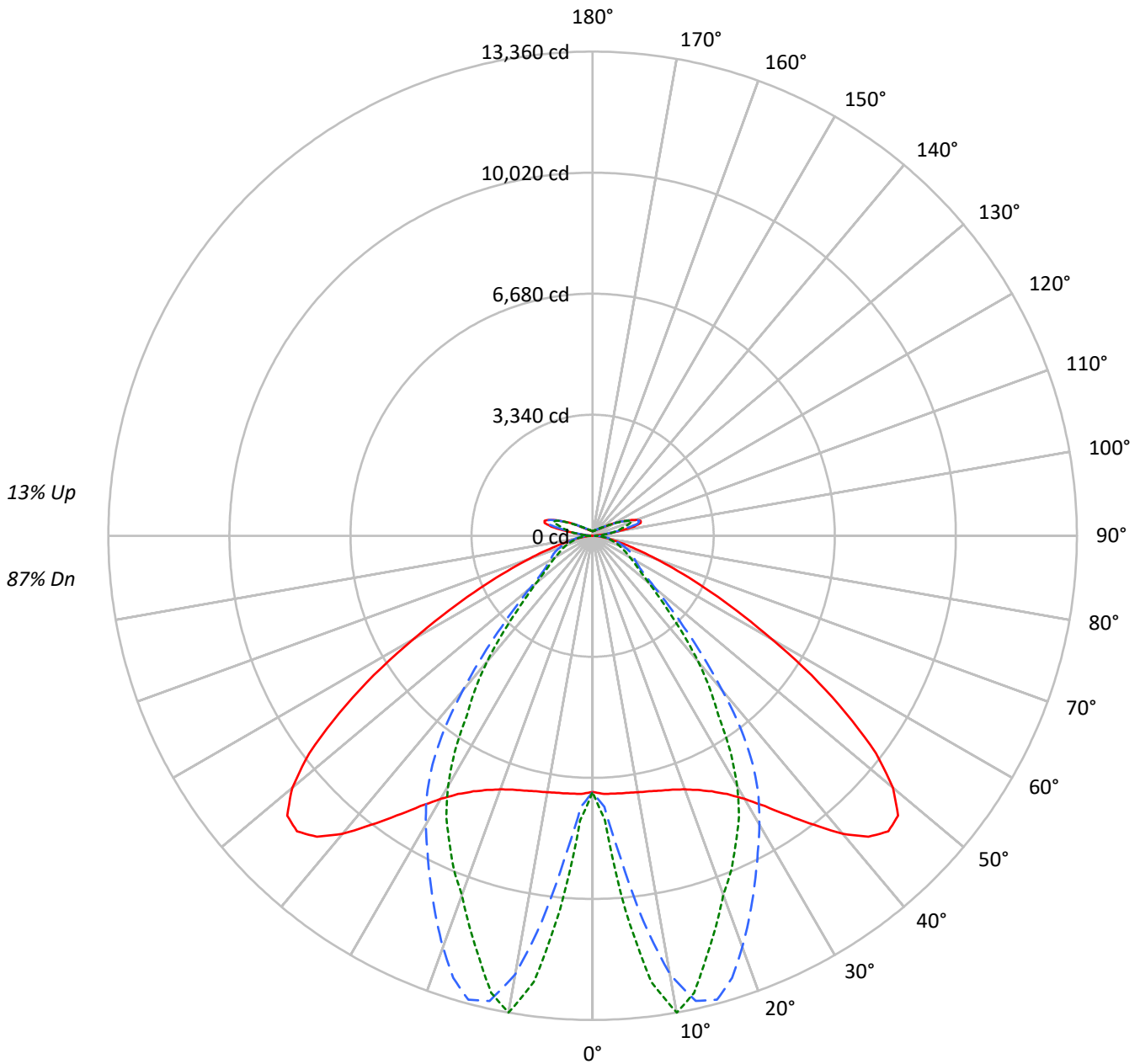
Lumens per Lamp: N/A  
Luminaire Lumens: 26021.2 lumens  
Efficiency: N/A  
Efficacy: 160.8 lumens/watt  
Spacing Criteria (0/90/45): 2.18 / 1.37 / 1.3  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')  
CIE Type: Semi-Direct

Input Watts (W): 161.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	116	116	116	116	112	112	112	112	104	104	104	97	97	97	90	90	90	87			87
1	108	104	100	97	104	100	97	94	94	91	89	88	86	84	82	81	79	76			76
2	99	92	87	82	96	89	84	80	84	80	76	79	76	73	74	72	69	67			67
3	92	83	76	70	88	80	74	69	76	70	66	71	67	63	67	64	61	58			58
4	85	75	67	61	82	72	66	60	68	63	58	65	60	56	61	57	54	52			52
5	79	68	60	54	76	66	58	53	62	56	51	59	54	50	56	52	48	46			46
6	73	61	54	48	71	60	53	47	57	51	46	54	49	45	52	47	43	41			41
7	68	56	48	43	66	55	48	42	52	46	41	50	44	40	48	43	39	37			37
8	64	52	44	39	62	50	43	38	48	42	37	46	40	36	44	39	35	34			34
9	60	48	40	35	58	47	40	35	45	38	34	43	37	33	41	36	32	31			31
10	56	44	37	32	54	43	36	32	41	35	31	40	34	30	38	33	30	28			28

**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



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	923.0	3.5
10°-20°	3257.8	12.5
20°-30°	4800.5	18.4
30°-40°	5044.6	19.4
40°-50°	3860.0	14.8
50°-60°	2330.8	9.0
60°-70°	1422.4	5.5
70°-80°	776.3	3.0
80°-90°	279.6	1.1
90°-100°	256.0	1.0
100°-110°	1159.5	4.5
110°-120°	959.7	3.7
120°-130°	454.2	1.7
130°-140°	230.0	0.9
140°-150°	134.4	0.5
150°-160°	78.8	0.3
160°-170°	41.0	0.2
170°-180°	12.5	0.0
0°-30°	8981.3	34.5
0°-40°	14025.8	53.9
0°-60°	20216.7	77.7
0°-90°	22695.0	87.2
90°-120°	2375.2	9.1
90°-150°	3193.8	12.3
90°-180°	3326.0	12.8
0°-180°	26021.2	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°	7	46	59	67	68	12
95°	58	115	154	195	210	215
105°	1374	1372	1290	959	866	1306
115°	958	945	953	959	950	969
125°	472	488	500	491	482	444
135°	279	286	293	296	297	221
145°	203	208	212	215	216	129
155°	164	167	169	171	171	77
165°	140	142	143	144	145	40
175°	128	128	129	129	130	12
180°	127	127	127	127	127	



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**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°	7.4	45.6	58.6	67.0	67.9
92.5°	23.3	55.8	71.7	89.3	94.9
95°	57.7	115.4	153.5	195.4	210.3
97.5°	348.0	374.1	324.8	388.0	410.4
100°	747.2	766.8	594.6	599.3	617.9
102.5°	1170.6	1186.5	938.0	776.1	748.2
105°	1374.4	1371.6	1289.8	959.4	866.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1126.0	1128.8	1118.5	1114.8	1085.0
115°	958.5	945.4	952.9	959.4	950.1
117.5°	819.8	810.5	818.0	814.2	804.0
120°	689.5	689.5	698.8	685.8	678.4
122.5°	571.4	584.4	590.9	581.6	569.5
125°	471.8	488.5	499.7	491.3	482.0
127.5°	404.8	410.4	423.4	418.8	418.8
130°	348.0	355.5	365.7	367.6	365.7
132.5°	308.9	316.4	325.7	328.5	331.3
135°	279.2	285.7	293.1	295.9	296.8
137.5°	255.0	260.6	266.1	270.8	271.7
140°	234.5	240.1	245.7	249.4	249.4
142.5°	217.8	223.3	228.0	230.8	230.8
145°	202.9	207.5	212.2	215.0	215.9
147.5°	191.7	195.4	200.1	201.0	201.9
150°	181.5	184.2	188.0	189.8	190.8
152.5°	172.2	174.9	178.7	179.6	180.5
155°	163.8	166.6	169.4	171.2	171.2
157.5°	156.3	159.1	161.9	162.8	162.8
160°	150.8	152.6	155.4	155.4	156.3
162.5°	145.2	147.0	148.9	149.8	150.8
165°	140.5	142.4	143.3	144.2	145.2
167.5°	136.8	137.7	138.7	139.6	139.6
170°	133.1	134.0	134.9	134.9	135.9
172.5°	130.3	131.2	132.1	132.1	132.1
175°	128.4	128.4	129.3	129.3	130.3
177.5°	126.6	127.5	127.5	127.5	128.4
180°	126.6	126.6	126.6	126.6	126.6



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	1387.5	1390.2	1356.8	1194.8	<i>1032.9</i>
110°	1280.4	1292.5	1271.1	1218.1	<i>1144.6</i>



(END OF REPORT)