

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: P826527

Luminaire Tested: **OHBL-24HE-A-UNV-L830-CD-UPL12**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P826527
REPORT IS A COMBINATION OF REPORTS P826071 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-24HE-A-UNV-L830-CD-UPL12
Description:
Light Source: -
Ballast/Driver: -

Summary

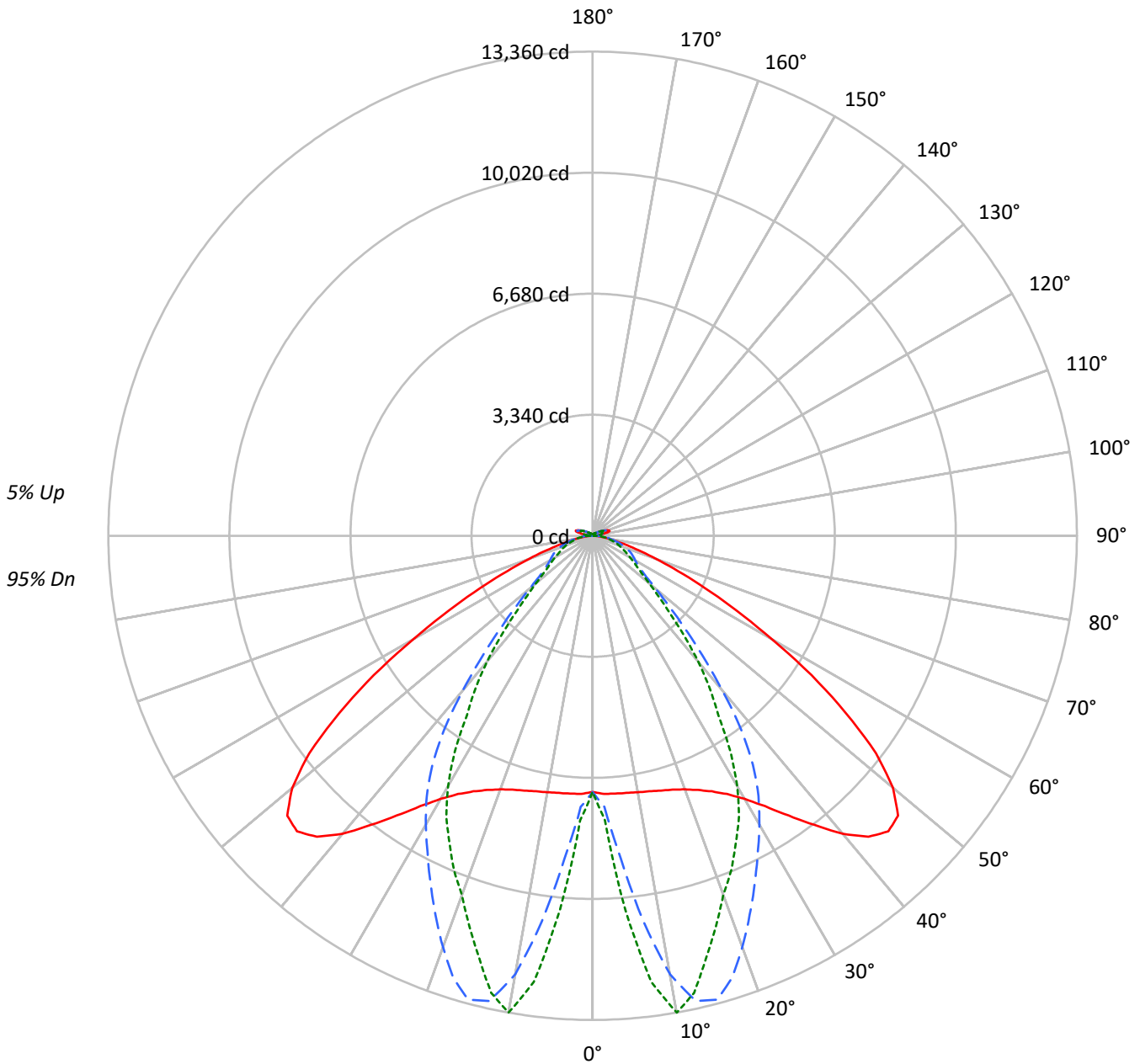
Lumens per Lamp: N/A
Luminaire Lumens: 23846.7 lumens
Efficiency: N/A
Efficacy: 168.6 lumens/watt
Spacing Criteria (0/90/45): 2.18 / 1.37 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')
CIE Type: Direct

Input Watts (W): 141.4
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: P826527

CATALOG NUMBER: OHBL-24HE-A-UNV-L830-CD-UPL12

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	118	118	118	118	115	115	115	115	108	108	108	103	103	103	98	98	98	98	98	98	95
1	109	105	102	99	106	103	100	97	98	95	93	93	91	89	89	87	86	86	86	86	83
2	101	94	88	84	98	92	87	82	88	83	80	84	80	77	80	77	75	75	75	75	73
3	94	85	78	72	91	83	76	71	79	74	69	76	71	68	73	69	66	66	66	66	64
4	87	76	69	63	84	75	68	62	72	66	61	69	64	60	66	62	58	58	58	58	56
5	81	69	61	56	78	68	61	55	65	59	54	63	57	53	61	56	52	52	52	52	50
6	75	63	55	49	73	62	54	49	60	53	48	58	52	48	56	51	47	47	47	47	45
7	70	58	50	44	68	57	49	44	55	48	43	53	47	43	51	46	42	42	42	42	40
8	65	53	45	40	64	52	45	40	51	44	39	49	43	39	48	42	38	38	38	38	37
9	61	49	42	37	60	48	41	36	47	40	36	46	40	36	44	39	35	35	35	35	33
10	58	46	38	33	56	45	38	33	44	37	33	42	37	33	41	36	32	32	32	32	31

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: P826527

CATALOG NUMBER: OHBL-24HE-A-UNV-L830-CD-UPL12

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	923.0	3.9
10°-20°	3257.8	13.7
20°-30°	4800.5	20.1
30°-40°	5044.6	21.2
40°-50°	3860.0	16.2
50°-60°	2330.8	9.8
60°-70°	1422.4	6.0
70°-80°	776.3	3.3
80°-90°	275.4	1.2
90°-100°	110.7	0.5
100°-110°	385.2	1.6
110°-120°	330.9	1.4
120°-130°	158.6	0.7
130°-140°	79.3	0.3
140°-150°	46.1	0.2
150°-160°	26.9	0.1
160°-170°	14.0	0.1
170°-180°	4.2	0.0
0°-30°	8981.3	37.7
0°-40°	14025.8	58.8
0°-60°	20216.7	84.8
0°-90°	22690.8	95.2
90°-120°	826.7	3.5
90°-150°	1110.8	4.7
90°-180°	1156.0	4.8
0°-180°	23846.7	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°	3	17	22	29	33	9
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: P826527

CATALOG NUMBER: OHBL-24HE-A-UNV-L830-CD-UPL12

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°	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: P826527

CATALOG NUMBER: OHBL-24HE-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)