

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: P826536

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P826536
REPORT IS A COMBINATION OF REPORTS P826074 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-N-UNV-L830-CD-UPL12
Description:
Light Source: -
Ballast/Driver: -

Summary

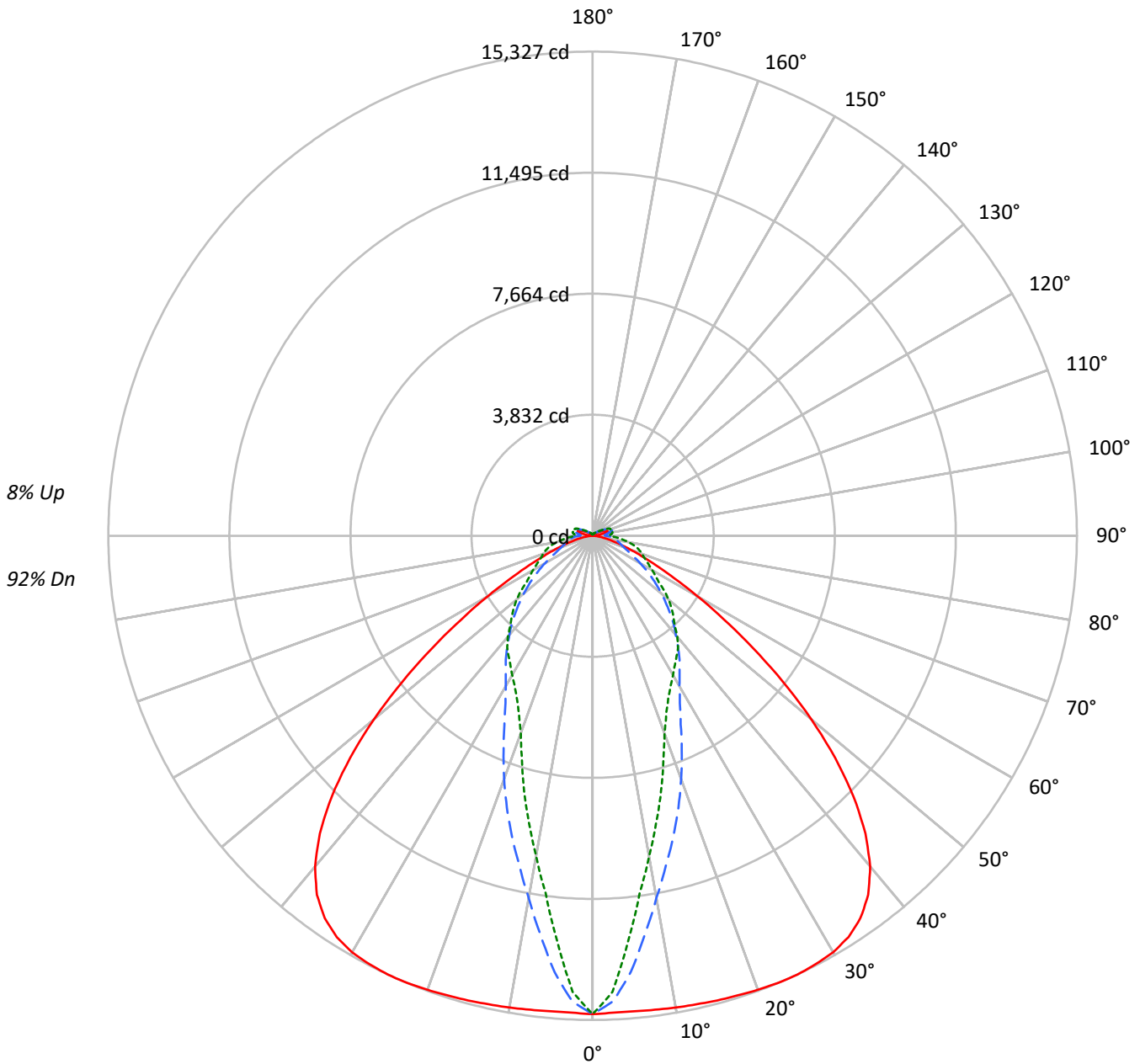
Lumens per Lamp: N/A
Luminaire Lumens: 23506.1 lumens
Efficiency: N/A
Efficacy: 166.2 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')
CIE Type: Direct

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

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Luminous Intensity Polar Plot





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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	107	107	107	100	100	100	95	95	95	92																			
1	108	103	99	96	104	100	97	93	94	92	89	89	87	85	84	83	81	78																			
2	99	92	85	80	96	89	83	79	84	80	76	80	76	73	76	73	70	67																			
3	91	82	74	68	88	80	73	67	76	70	65	72	67	63	68	64	61	59																			
4	84	74	66	59	82	72	64	59	68	62	57	65	60	55	62	58	54	52																			
5	78	67	58	52	76	65	57	52	62	55	50	59	54	49	57	52	48	46																			
6	73	61	52	47	70	59	52	46	57	50	45	54	49	44	52	47	43	41																			
7	68	56	48	42	66	54	47	41	52	46	41	50	44	40	48	43	39	37																			
8	64	51	43	38	62	50	43	38	48	42	37	46	41	36	45	39	36	34																			
9	60	47	40	35	58	46	39	34	45	38	34	43	37	33	42	36	33	31																			
10	56	44	37	32	55	43	36	32	42	35	31	40	35	31	39	34	30	28																			

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



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1274.6	5.4
10°-20°	2998.4	12.8
20°-30°	3758.5	16.0
30°-40°	3988.2	17.0
40°-50°	3605.9	15.3
50°-60°	2614.5	11.1
60°-70°	1640.7	7.0
70°-80°	1085.8	4.6
80°-90°	628.5	2.7
90°-100°	413.8	1.8
100°-110°	594.4	2.5
110°-120°	459.9	2.0
120°-130°	221.1	0.9
130°-140°	108.1	0.5
140°-150°	61.8	0.3
150°-160°	33.7	0.1
160°-170°	14.0	0.1
170°-180°	4.2	0.0
0°-30°	8031.5	34.2
0°-40°	12019.6	51.1
0°-60°	18240.1	77.6
0°-90°	21595.1	91.9
90°-120°	1468.0	6.2
90°-150°	1859.0	7.9
90°-180°	1911.0	8.1
0°-180°	23506.1	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°	3	152	396	555	563	10
95°	29	149	409	555	592	82
105°	493	539	645	605	590	467
115°	351	380	497	535	534	350
125°	181	193	256	276	275	168
135°	109	115	137	159	159	87
145°	87	90	94	107	106	55
155°	73	78	81	83	80	31
165°	48	48	49	49	49	14
175°	44	44	44	44	44	4
180°	43	43	43	43	43	



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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°	2.8	152.2	395.6	554.8	562.9
92.5°	11.3	133.8	379.8	531.5	550.6
95°	29.0	149.1	408.6	554.7	591.6
97.5°	132.8	220.4	462.9	597.4	624.0
100°	265.5	351.3	513.8	622.0	641.1
102.5°	418.6	472.1	554.9	613.4	620.3
105°	492.6	538.9	645.0	604.6	590.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	403.4	440.8	569.1	601.8	593.1
115°	350.8	379.7	497.3	534.9	533.7
117.5°	298.3	323.6	428.8	462.0	461.6
120°	252.7	275.6	363.9	390.5	390.5
122.5°	215.5	231.7	306.5	328.2	327.7
125°	181.1	193.4	256.2	275.9	275.4
127.5°	152.6	161.1	215.1	234.4	233.0
130°	134.9	141.5	180.8	201.9	201.9
132.5°	120.5	126.2	155.9	176.9	177.8
135°	109.3	115.0	137.4	158.6	158.6
137.5°	101.9	108.0	122.4	142.1	143.0
140°	94.5	100.1	110.6	128.9	128.9
142.5°	90.3	93.6	101.2	116.6	117.5
145°	87.1	90.4	94.2	106.6	106.2
147.5°	82.4	87.2	90.4	97.7	97.2
150°	79.7	84.9	85.8	91.1	89.6
152.5°	75.9	81.1	82.1	85.9	84.5
155°	73.1	78.4	80.8	83.1	80.2
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°	495.4	544.8	666.6	631.0	581.5
110°	455.9	502.8	629.3	644.5	607.1



(END OF REPORT)