

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: P826392

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

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P826392  
REPORT IS A COMBINATION OF REPORTS P826038 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: OHB-24HE-N-UNV-L830-CD-UPL12  
Description:  
Light Source: -  
Ballast/Driver: -

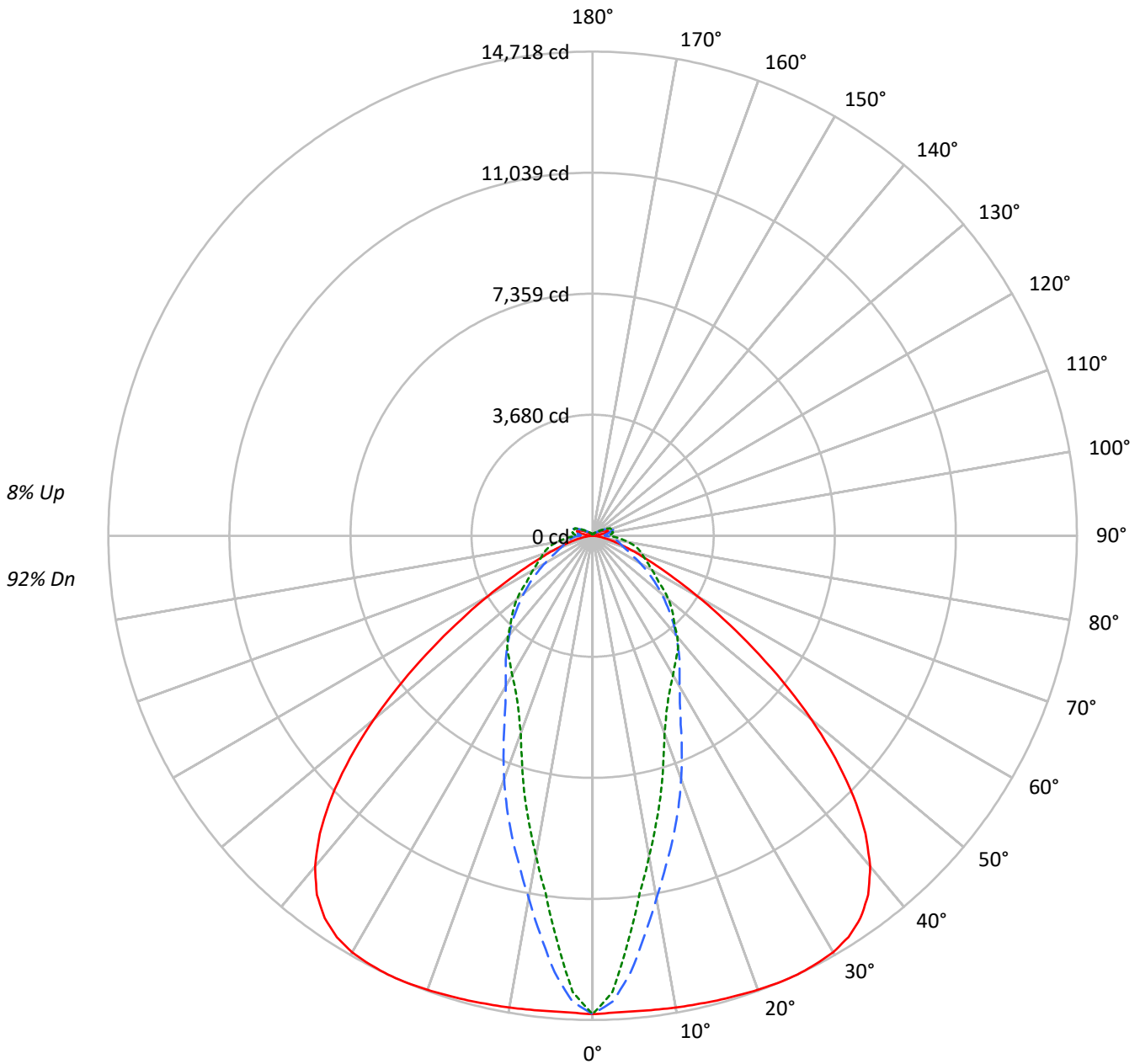
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22618.3 lumens  
Efficiency: N/A  
Efficacy: 163.4 lumens/watt  
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78  
Luminous Opening: Rectangular w/ Sides (W: 1.93' x L: 1.8' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 138.4  
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

TEST NUMBER: P826392

CATALOG NUMBER: OHB-24HE-N-UNV-L830-CD-UPL12

### 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	106	106	106	100	100	100	94	94	94	92																			
1	108	103	99	96	104	100	97	93	94	92	89	89	87	85	84	82	81	78																			
2	99	91	85	80	96	89	83	79	84	79	75	80	76	73	76	73	70	67																			
3	91	82	74	68	88	80	73	67	75	70	65	72	67	63	68	64	61	59																			
4	84	73	66	59	82	72	64	59	68	62	57	65	60	55	62	57	54	51																			
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	48	44	52	47	43	41																			
7	68	56	47	42	66	54	47	41	52	45	41	50	44	40	48	43	39	37																			
8	64	51	43	38	62	50	43	38	48	42	37	46	40	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°	44973	44973	44973
5°	44693	40869	38125
10°	45006	34353	30607
15°	45687	29317	25151
20°	46762	24734	20368
25°	48152	20426	17871
30°	49567	17554	16624
35°	50322	15956	15863
40°	49161	14372	15074
45°	44915	12945	13982
50°	37590	11394	13152
55°	28288	9937	11734
60°	19587	8476	11270
65°	12971	7250	11078
70°	8670	6743	11686
75°	5825	6865	12586
80°	3798	7450	13128
85°	1979	8976	14122



TEST NUMBER: P826392

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1224.0	5.4
10°-20°	2879.3	12.7
20°-30°	3609.2	16.0
30°-40°	3829.7	16.9
40°-50°	3462.7	15.3
50°-60°	2510.7	11.1
60°-70°	1575.6	7.0
70°-80°	1042.6	4.6
80°-90°	603.6	2.7
90°-100°	401.7	1.8
100°-110°	586.1	2.6
110°-120°	454.8	2.0
120°-130°	218.6	1.0
130°-140°	106.9	0.5
140°-150°	61.2	0.3
150°-160°	33.5	0.1
160°-170°	14.0	0.1
170°-180°	4.2	0.0
0°-30°	7712.4	34.1
0°-40°	11542.2	51.0
0°-60°	17515.5	77.4
0°-90°	20737.3	91.7
90°-120°	1442.6	6.4
90°-150°	1829.3	8.1
90°-180°	1881.0	8.3
0°-180°	22618.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	14540	14540	14540	14540	14540	
5°	14511	14139	13308	12691	12372	###
15°	14622	11918	9465	8418	8036	4147
25°	14718	9215	6338	5625	5447	6800
35°	14191	6126	4600	4456	4455	8822
45°	11219	3880	3334	3414	3472	8546
55°	5940	2405	2175	2359	2444	5366
65°	2124	1395	1259	1614	1794	2210
75°	656	751	846	1313	1392	731
85°	115	311	618	861	790	138
90°	3	147	381	534	542	9
95°	29	145	396	537	573	81
105°	492	536	636	592	577	466
115°	350	378	491	527	526	350
125°	180	192	253	272	271	167
135°	109	114	136	156	156	86
145°	86	90	93	105	105	54
155°	72	78	80	82	79	31
165°	48	48	49	49	49	14
175°	44	44	44	44	44	4
180°	43	43	43	43	43	



TEST NUMBER: P826392

CATALOG NUMBER: OHB-24HE-N-UNV-L830-CD-UPL12

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	14540.0	14540.0	14540.0	14540.0	14540.0
2.5°	14509.5	14426.5	14167.7	14010.0	13877.1
5°	14510.9	14138.7	13308.3	12691.2	12371.6
7.5°	14531.6	13704.1	12208.2	11307.4	10955.8
10°	14563.5	13165.9	11181.4	10221.0	9893.0
12.5°	14587.0	12559.7	10277.8	9291.1	8931.3
15°	14621.6	11917.6	9465.4	8417.9	8035.9
17.5°	14653.5	11312.9	8662.8	7568.2	7143.4
20°	14685.3	10661.1	7860.2	6732.4	6382.2
22.5°	14715.7	9973.3	7077.0	6083.3	5844.0
25°	14718.5	9215.0	6338.0	5625.3	5446.8
27.5°	14682.5	8429.0	5738.7	5242.0	5131.3
30°	14620.2	7666.5	5273.8	4965.2	4886.3
32.5°	14465.3	6888.7	4914.0	4698.1	4652.5
35°	14191.3	6126.2	4599.9	4456.0	4454.6
37.5°	13759.5	5449.5	4259.4	4234.6	4265.0
40°	13121.6	4857.3	3937.0	4003.4	4003.4
42.5°	12270.5	4342.4	3645.0	3712.8	3694.9
45°	11218.8	3880.3	3333.6	3413.9	3472.1
47.5°	9999.7	3473.4	3015.4	3170.4	3250.6
50°	8673.9	3086.0	2724.8	2922.7	3014.0
52.5°	7284.5	2727.6	2441.1	2668.0	2741.4
55°	5939.5	2405.1	2175.4	2359.4	2443.8
57.5°	4721.6	2097.9	1915.3	2089.6	2263.9
60°	3674.1	1833.6	1670.3	1919.4	2093.8
62.5°	2806.5	1598.3	1440.6	1760.2	1934.6
65°	2124.2	1394.9	1259.3	1613.6	1793.5
67.5°	1601.1	1219.1	1118.2	1507.0	1682.7
70°	1202.6	1048.9	1004.6	1440.6	1598.3
72.5°	888.4	892.6	914.7	1382.4	1502.8
75°	655.9	751.4	845.5	1313.3	1392.1
77.5°	469.1	622.7	783.2	1230.2	1257.9
80°	325.2	507.9	718.2	1120.9	1097.4
82.5°	203.4	406.8	660.1	1000.5	935.5
85°	114.8	311.4	618.5	860.8	790.1
87.5°	51.2	232.5	541.1	671.1	626.9
90°	2.8	146.8	380.8	534.0	541.9
92.5°	11.2	129.3	366.1	512.5	531.0
95°	28.8	145.3	395.6	536.9	573.0
97.5°	132.5	217.1	450.6	580.9	606.8
100°	265.1	348.3	502.5	606.8	625.3
102.5°	418.2	469.4	544.6	599.6	606.1
105°	492.2	536.4	635.5	592.0	577.0



TEST NUMBER: P826392

CATALOG NUMBER: OHB-24HE-N-UNV-L830-CD-UPL12

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	402.8	438.8	562.0	592.8	583.8
115°	350.3	377.9	491.0	526.9	525.5
117.5°	297.6	322.2	423.1	454.9	454.5
120°	252.0	274.2	359.1	384.4	384.4
122.5°	214.8	230.5	302.5	323.3	322.8
125°	180.3	192.4	252.9	271.8	271.4
127.5°	152.1	160.3	212.5	231.0	229.6
130°	134.4	140.8	178.7	199.0	199.0
132.5°	119.9	125.4	154.1	174.4	175.3
135°	108.8	114.3	136.0	156.3	156.3
137.5°	101.3	107.3	121.2	140.1	141.1
140°	93.9	99.4	109.6	127.1	127.1
142.5°	89.7	92.9	100.3	115.1	116.0
145°	86.4	89.6	93.3	105.3	104.9
147.5°	81.7	86.4	89.6	96.5	96.1
150°	78.9	84.0	85.0	90.1	88.7
152.5°	75.2	80.3	81.2	85.0	83.6
155°	72.4	77.5	79.8	82.2	79.4
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°	495.0	542.5	657.9	619.8	569.9
110°	455.4	500.6	621.3	634.4	596.6



(END OF REPORT)