

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: P826998

Luminaire Tested: **OHB-24HE-W-UNV-L840-CD-UPL12**

Issue Date: 5/3/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P826998  
REPORT IS A COMBINATION OF REPORTS P826040 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-W-UNV-L840-CD-UPL12  
Description: 24000 LUMEN OHB HE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND WIDE LENS AND 1200 LUMEN UPLIGHT MODULE  
Light Source: -  
Ballast/Driver: -

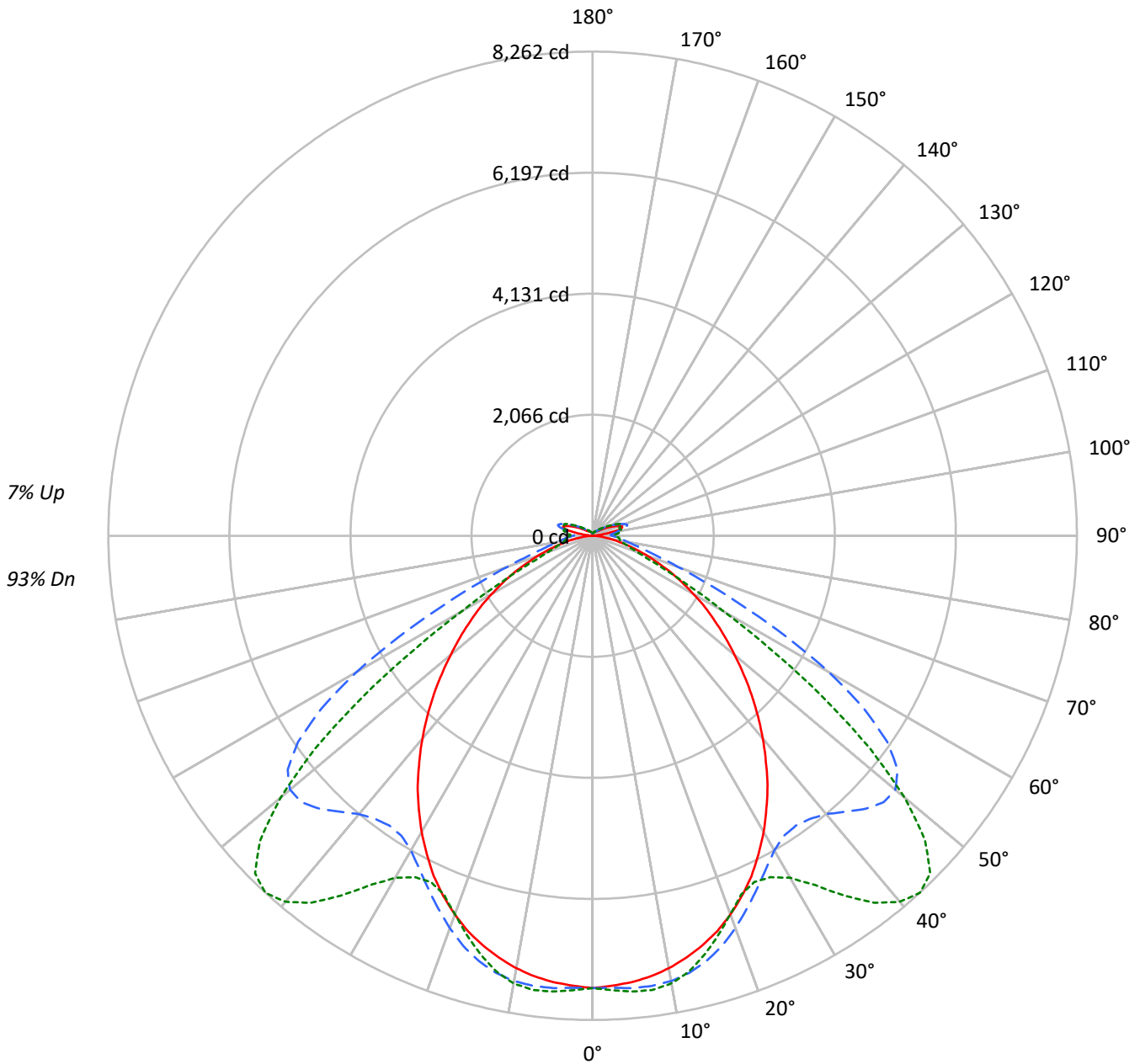
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24354.4 lumens  
Efficiency: N/A  
Efficacy: 176.0 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62  
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

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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	114	114	114	114	107	107	107	101	101	101	95	95	95	93																			
1	108	103	99	95	104	100	96	93	94	92	89	89	87	85	85	83	81	79																			
2	98	90	84	78	95	88	82	77	83	78	74	79	75	71	75	71	68	66																			
3	89	79	71	65	86	77	70	64	73	67	62	70	64	60	66	62	58	56																			
4	82	70	62	55	79	68	60	54	65	58	53	62	56	51	59	54	50	48																			
5	75	63	54	47	73	61	53	47	58	51	45	55	49	44	53	47	43	41																			
6	69	56	47	41	67	55	46	40	52	45	40	50	44	39	48	42	38	36																			
7	64	51	42	36	62	50	41	36	47	40	35	45	39	34	43	38	33	31																			
8	59	46	38	32	57	45	37	32	43	36	31	41	35	30	40	34	30	28																			
9	55	42	34	28	54	41	34	28	40	33	28	38	32	27	37	31	27	25																			
10	52	39	31	26	50	38	30	25	36	30	25	35	29	25	34	28	24	22																			

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

	0°	45°	90°
0°	23872	23872	23872
5°	23550	23788	24056
10°	23156	23702	23996
15°	22607	23260	23140
20°	21893	22411	21921
25°	20973	21396	21394
30°	19787	20629	22921
35°	18452	20956	26695
40°	16926	22630	30697
45°	15339	25587	32797
50°	13697	28187	30307
55°	12150	28028	22962
60°	10582	23584	13892
65°	8938	16173	8300
70°	7107	10360	5881
75°	5235	7327	5299
80°	3558	6305	5697
85°	2153	6670	8125



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	737.5	3.0
10°-20°	2088.5	8.6
20°-30°	3056.2	12.5
30°-40°	3969.1	16.3
40°-50°	4846.7	19.9
50°-60°	4268.3	17.5
60°-70°	2224.2	9.1
70°-80°	953.8	3.9
80°-90°	461.2	1.9
90°-100°	334.2	1.4
100°-110°	547.7	2.2
110°-120°	434.6	1.8
120°-130°	213.4	0.9
130°-140°	106.8	0.4
140°-150°	60.0	0.2
150°-160°	32.6	0.1
160°-170°	15.0	0.1
170°-180°	4.6	0.0
0°-30°	5882.2	24.2
0°-40°	9851.2	40.4
0°-60°	18966.3	77.9
0°-90°	22605.5	92.8
90°-120°	1316.5	5.4
90°-150°	1696.7	7.0
90°-180°	1749.0	7.2
0°-180°	24354.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7718	7718	7718	7718	7718	
5°	7646	7705	7746	7815	7806	725
15°	7235	7438	7510	7453	7393	2037
25°	6411	6754	6639	6514	6521	2942
35°	5204	5753	6041	7045	7496	3243
45°	3832	4821	6589	7978	8144	2954
55°	2551	4223	6136	5380	4782	2290
65°	1464	2926	2809	1562	1344	1448
75°	590	1369	902	618	586	643
85°	125	488	460	450	455	139
90°	5	194	327	377	390	11
95°	28	161	327	399	425	85
105°	524	569	592	497	476	496
115°	370	393	458	476	474	370
125°	188	200	244	258	261	174
135°	112	115	136	155	157	89
145°	88	87	90	101	105	55
155°	73	74	72	73	73	32
165°	52	52	53	53	53	15
175°	47	47	47	47	47	5
180°	46	46	46	46	46	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	7718.0	7718.0	7718.0	7718.0	7718.0
2.5°	7684.7	7718.0	7719.6	7766.3	7761.3
5°	7646.4	7704.7	7746.3	7814.6	7806.2
7.5°	7583.1	7674.7	7748.0	7822.9	7816.2
10°	7493.2	7618.1	7714.7	7776.3	7756.3
12.5°	7376.6	7541.5	7636.4	7649.7	7611.4
15°	7235.1	7438.2	7509.8	7453.2	7393.3
17.5°	7075.2	7313.4	7338.3	7215.1	7140.2
20°	6875.4	7146.8	7121.9	6952.0	6868.8
22.5°	6654.0	6963.7	6883.7	6705.6	6625.6
25°	6410.8	6753.9	6639.0	6514.1	6520.7
27.5°	6126.1	6515.7	6404.2	6460.8	6567.4
30°	5836.4	6266.0	6197.7	6527.4	6737.2
32.5°	5518.3	6009.5	6071.1	6722.2	7065.2
35°	5203.6	5753.1	6041.2	7045.3	7496.5
37.5°	4855.6	5493.3	6089.5	7418.3	7891.2
40°	4517.6	5240.2	6199.4	7753.0	8152.6
42.5°	4172.9	5013.8	6384.2	7951.1	8262.5
45°	3831.5	4820.6	6589.0	7977.7	8144.3
47.5°	3490.2	4657.4	6730.5	7766.3	7689.7
50°	3160.5	4512.6	6740.5	7258.4	6945.4
52.5°	2852.4	4379.4	6557.4	6449.1	5962.9
55°	2551.0	4222.8	6136.1	5380.1	4782.3
57.5°	2276.3	4006.4	5486.7	4231.2	3578.4
60°	1984.9	3713.3	4647.4	3095.5	2581.0
62.5°	1716.8	3348.6	3706.6	2154.7	1855.0
65°	1463.7	2925.7	2809.1	1561.9	1343.8
67.5°	1195.6	2487.7	2073.1	1139.0	999.1
70°	985.8	2081.4	1543.6	885.9	804.3
72.5°	771.0	1695.1	1154.0	719.3	674.4
75°	589.5	1368.8	902.5	617.8	586.1
77.5°	434.6	1082.3	726.0	546.2	516.2
80°	304.7	852.6	607.8	487.9	476.2
82.5°	204.8	659.4	517.9	464.6	466.2
85°	124.9	487.9	459.6	449.6	454.6
87.5°	59.9	346.4	394.6	409.6	414.6
90°	4.7	194.5	327.1	377.4	389.7
92.5°	9.0	157.9	304.4	363.7	377.0
95°	28.3	161.2	327.4	399.1	425.4
97.5°	138.3	231.9	382.5	455.8	470.8
100°	281.0	370.3	440.2	492.8	502.8
102.5°	444.0	497.9	489.2	495.8	494.1
105°	523.7	569.3	592.5	497.2	475.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	428.0	461.0	527.9	535.2	521.5
115°	370.0	393.3	457.6	476.2	473.6
117.5°	313.7	336.0	393.9	410.9	410.6
120°	264.7	284.0	334.3	350.2	351.9
122.5°	224.7	238.0	285.9	301.3	303.9
125°	187.7	199.7	243.6	258.3	260.9
127.5°	157.0	164.7	208.3	223.9	225.6
130°	138.0	142.0	177.0	194.6	197.9
132.5°	124.0	127.0	154.3	172.0	176.3
135°	112.0	115.0	135.6	155.0	156.6
137.5°	104.0	106.0	120.6	138.3	142.6
140°	96.0	99.0	107.7	125.3	127.0
142.5°	91.7	92.0	99.0	113.3	116.0
145°	88.3	87.0	89.7	100.6	105.0
147.5°	83.3	83.7	85.7	92.3	95.0
150°	80.3	81.3	79.0	83.3	86.7
152.5°	76.3	77.3	75.0	76.0	79.3
155°	73.3	74.3	72.0	73.0	73.0
157.5°	57.0	59.0	59.0	60.0	60.0
160°	55.0	56.0	57.0	57.0	57.0
162.5°	53.0	54.0	54.0	55.0	55.0
165°	52.0	52.0	53.0	53.0	53.0
167.5°	50.0	50.0	51.0	51.0	51.0
170°	49.0	49.0	49.0	50.0	50.0
172.5°	48.0	48.0	48.0	48.0	48.0
175°	47.0	47.0	47.0	47.0	47.0
177.5°	46.0	47.0	47.0	47.0	47.0
180°	46.0	46.0	46.0	46.0	46.0



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	528.3	573.6	620.9	541.2	480.5
110°	484.3	528.0	584.2	569.9	522.2



(END OF REPORT)