

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: P829221

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829221
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-4)
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
Description: 24000 LUMEN OHB HE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND WIDE LENS
Light Source: -
Ballast/Driver: -

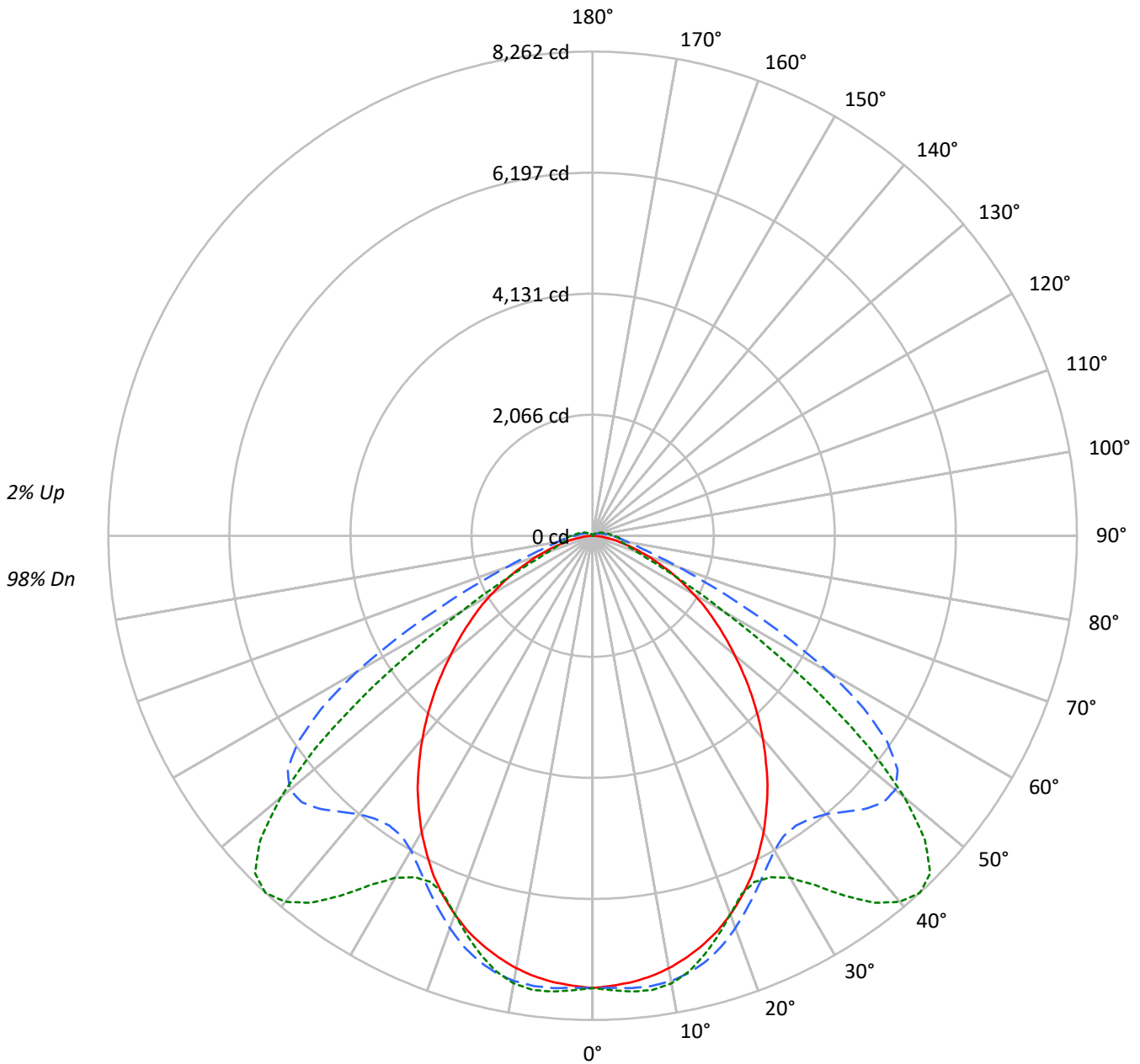
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23109.1 lumens
Efficiency: N/A
Efficacy: 177.8 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 1.93' x H: 0.17')
CIE Type: Direct

Input Watts (W): 130
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					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	119	119	119	119	116	116	116	116	110	110	110	105	105	105	100	100	100					98				
1	109	104	100	96	106	102	98	95	97	94	91	93	90	88	89	87	85					83				
2	99	91	85	79	96	89	83	78	85	80	76	82	77	74	78	75	72					70				
3	90	80	72	66	88	78	71	65	75	69	64	72	67	62	69	65	61					59				
4	83	71	62	56	80	69	61	55	67	60	54	64	58	53	62	57	52					50				
5	76	63	54	48	74	62	54	47	60	52	47	57	51	46	55	50	45					43				
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	50	44	40					38				
7	65	51	43	36	63	50	42	36	49	41	36	47	40	35	45	40	35					33				
8	60	47	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31					29				
9	56	43	34	29	55	42	34	29	41	34	28	39	33	28	38	32	28					26				
10	52	39	31	26	51	39	31	26	38	31	26	36	30	26	35	30	25					24				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	23872	23872	23872
5°	23564	23788	24043
10°	23182	23702	23970
15°	22645	23260	23101
20°	21942	22411	21872
25°	21033	21396	21333
30°	19857	20629	22841
35°	18530	20956	26583
40°	17010	22630	30544
45°	15430	25587	32606
50°	13791	28187	30099
55°	12248	28028	22777
60°	10683	23584	13759
65°	9041	16173	8205
70°	7208	10360	5798
75°	5330	7327	5205
80°	3645	6305	5561
85°	2232	6670	7837



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	737.5	3.2
10°-20°	2088.5	9.0
20°-30°	3056.2	13.2
30°-40°	3969.1	17.2
40°-50°	4846.7	21.0
50°-60°	4268.3	18.5
60°-70°	2224.2	9.6
70°-80°	953.8	4.1
80°-90°	458.1	2.0
90°-100°	215.2	0.9
100°-110°	133.8	0.6
110°-120°	79.1	0.3
120°-130°	43.0	0.2
130°-140°	21.6	0.1
140°-150°	10.4	0.0
150°-160°	3.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	5882.2	25.5
0°-40°	9851.2	42.6
0°-60°	18966.3	82.1
0°-90°	22602.4	97.8
90°-120°	428.1	1.9
90°-150°	503.0	2.2
90°-180°	507.0	2.2
0°-180°	23109.1	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°	2	176	303	346	355	9
95°	3	103	241	283	291	2
105°	7	58	156	188	192	7
115°	10	33	97	118	122	10
125°	12	17	57	73	75	10
135°	10	10	27	45	47	8
145°	13	10	12	22	25	8
155°	13	13	10	10	10	4
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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CATALOG NUMBER: OHB-24HE-W-UNV-L840-CD

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°	1.7	176.5	303.1	346.4	354.7
92.5°	0.0	134.9	266.4	309.7	318.0
95°	3.3	103.2	241.4	283.1	291.4
97.5°	3.3	84.9	216.5	259.8	264.8
100°	5.0	73.3	193.2	234.8	239.8
102.5°	5.0	64.9	173.2	209.8	213.1
105°	6.7	58.3	156.5	188.2	191.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	10.0	40.0	109.9	133.2	136.5
115°	10.0	33.3	96.6	118.2	121.6
117.5°	11.7	30.0	84.9	104.9	106.6
120°	11.7	25.0	73.3	93.2	94.9
122.5°	11.7	20.0	64.9	83.3	84.9
125°	11.7	16.7	56.6	73.3	74.9
127.5°	10.0	11.7	48.3	64.9	66.6
130°	10.0	10.0	40.0	56.6	59.9
132.5°	10.0	10.0	33.3	50.0	53.3
135°	10.0	10.0	26.6	45.0	46.6
137.5°	10.0	10.0	21.6	38.3	41.6
140°	10.0	10.0	16.7	33.3	35.0
142.5°	11.7	10.0	15.0	28.3	30.0
145°	13.3	10.0	11.7	21.6	25.0
147.5°	13.3	11.7	11.7	18.3	20.0
150°	13.3	13.3	10.0	13.3	16.7
152.5°	13.3	13.3	10.0	10.0	13.3
155°	13.3	13.3	10.0	10.0	10.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	8.3	51.6	139.9	168.2	171.5
110°	8.3	45.0	123.2	149.9	153.2



(END OF REPORT)