

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: P830063

Luminaire Tested: **OHBL-24HE-N-UNV-L930-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830063
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-24HE-N-UNV-L930-CD
Description: 24000 LUMEN OHBL HE LED LUMINAIRE WITH 90CRI, 3000K LEDS AND NARROW LENS
Light Source: -
Ballast/Driver: -

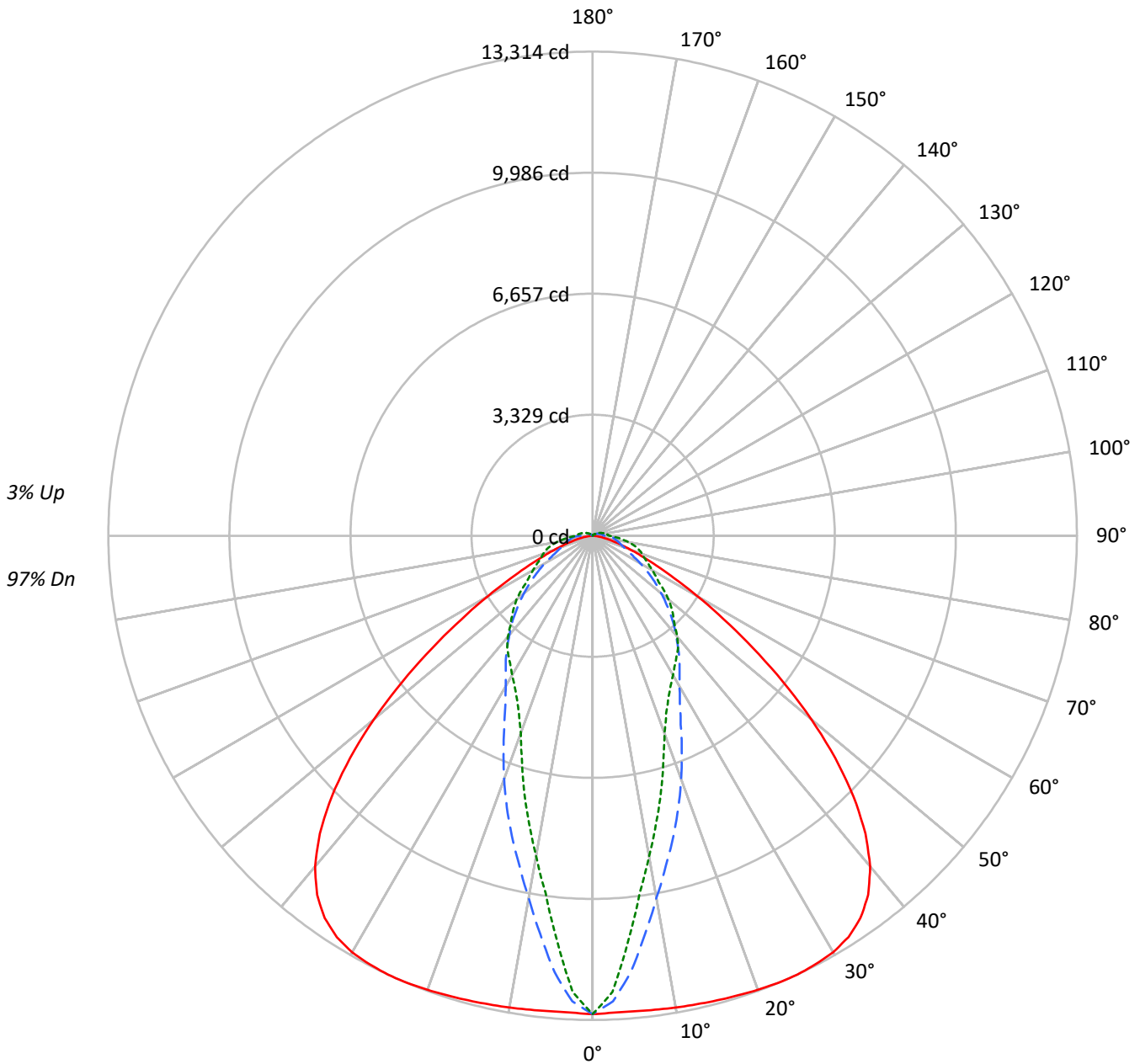
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19412.0 lumens
Efficiency: N/A
Efficacy: 146.0 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 133
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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	97																	
1	109	104	100	97	106	102	98	95	97	94	91	92	90	88	88	86	85	85	85	82																	
2	100	93	86	81	97	90	85	80	86	82	78	83	79	75	79	76	73	73	73	71																	
3	92	83	75	69	90	81	74	69	78	72	67	74	70	65	72	67	64	64	64	62																	
4	85	74	66	60	83	73	66	60	70	64	59	67	62	57	65	60	56	56	56	54																	
5	79	67	59	53	77	66	59	53	64	57	52	62	56	51	59	54	50	50	50	48																	
6	74	62	53	47	72	60	53	47	58	52	46	56	50	46	55	49	45	45	45	43																	
7	69	56	48	43	67	55	48	42	54	47	42	52	46	41	50	45	41	41	41	39																	
8	65	52	44	39	63	51	44	39	50	43	38	48	42	38	47	41	37	37	37	35																	
9	61	48	41	35	59	47	40	35	46	40	35	45	39	35	44	38	34	34	34	32																	
10	57	45	37	33	56	44	37	32	43	37	32	42	36	32	41	35	32	32	32	30																	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20801	20801	20801
5°	20758	18951	17623
10°	20992	15970	14140
15°	21402	13665	11613
20°	22004	11560	9399
25°	22765	9573	8242
30°	23552	8251	7662
35°	24042	7524	7306
40°	23630	6801	6937
45°	21739	6150	6429
50°	18341	5438	6041
55°	13936	4768	5383
60°	9766	4094	5163
65°	6569	3531	5065
70°	4486	3320	5329
75°	3114	3434	5718
80°	2143	3822	5928
85°	1254	4824	6301



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1107.2	5.7
10°-20°	2604.6	13.4
20°-30°	3264.8	16.8
30°-40°	3464.3	17.8
40°-50°	3132.3	16.1
50°-60°	2271.1	11.7
60°-70°	1425.2	7.3
70°-80°	943.2	4.9
80°-90°	543.4	2.8
90°-100°	263.2	1.4
100°-110°	181.7	0.9
110°-120°	112.1	0.6
120°-130°	54.3	0.3
130°-140°	25.0	0.1
140°-150°	13.6	0.1
150°-160°	5.9	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	6976.5	35.9
0°-40°	10440.9	53.8
0°-60°	15844.3	81.6
0°-90°	18756.1	96.6
90°-120°	557.1	2.9
90°-150°	650.0	3.3
90°-180°	656.0	3.4
0°-180°	19412.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13153	13153	13153	13153	13153	
5°	13126	12790	12039	11480	11191	###
15°	13226	10780	8562	7615	7269	3751
25°	13314	8336	5733	5089	4927	6151
35°	12837	5542	4161	4031	4030	7980
45°	10148	3510	3016	3088	3141	7731
55°	5373	2176	1968	2134	2211	4854
65°	1922	1262	1139	1460	1622	2000
75°	593	680	765	1188	1259	661
85°	104	282	560	779	715	125
90°	0	118	324	457	461	7
95°	5	83	285	388	406	4
105°	10	55	208	275	283	10
115°	14	39	140	175	179	13
125°	15	20	71	90	89	13
135°	12	15	31	49	49	10
145°	15	16	19	29	28	9
155°	15	19	20	21	19	5
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	13152.7	13152.7	13152.7	13152.7	13152.7
2.5°	13125.1	13050.0	12815.9	12673.2	12553.1
5°	13126.4	12789.6	12038.6	11480.3	11191.1
7.5°	13145.2	12396.6	11043.4	10228.5	9910.5
10°	13173.9	11909.6	10114.5	9245.8	8949.1
12.5°	13195.2	11361.3	9297.1	8404.6	8079.1
15°	13226.5	10780.5	8562.3	7614.7	7269.2
17.5°	13255.3	10233.5	7836.3	6846.1	6461.8
20°	13284.1	9643.9	7110.2	6090.0	5773.3
22.5°	13311.6	9021.7	6401.7	5502.9	5286.4
25°	13314.1	8335.7	5733.2	5088.6	4927.1
27.5°	13281.6	7624.7	5191.2	4741.8	4641.7
30°	13225.3	6935.0	4770.6	4491.5	4420.1
32.5°	13085.1	6231.5	4445.1	4249.9	4208.6
35°	12837.2	5541.7	4161.0	4030.8	4029.5
37.5°	12446.6	4929.6	3853.0	3830.5	3858.0
40°	11869.6	4393.8	3561.4	3621.5	3621.5
42.5°	11099.7	3928.1	3297.2	3358.6	3342.3
45°	10148.3	3510.0	3015.6	3088.2	3140.8
47.5°	9045.5	3142.0	2727.7	2867.9	2940.5
50°	7846.3	2791.5	2464.8	2643.8	2726.4
52.5°	6589.5	2467.3	2208.2	2413.5	2479.8
55°	5372.7	2175.6	1967.8	2134.3	2210.7
57.5°	4271.1	1897.7	1732.5	1890.2	2047.9
60°	3323.5	1658.6	1510.9	1736.2	1894.0
62.5°	2538.7	1445.8	1303.1	1592.3	1750.0
65°	1921.5	1261.8	1139.1	1459.6	1622.3
67.5°	1448.3	1102.8	1011.5	1363.2	1522.2
70°	1087.8	948.9	908.8	1303.1	1445.8
72.5°	803.7	807.4	827.4	1250.5	1359.5
75°	593.4	679.7	764.8	1188.0	1259.3
77.5°	424.4	563.3	708.5	1112.9	1137.9
80°	294.2	459.4	649.7	1014.0	992.7
82.5°	184.0	368.0	597.1	905.1	846.2
85°	103.9	281.7	559.6	778.6	714.8
87.5°	46.3	210.3	489.5	607.1	567.1
90°	0.0	117.7	324.2	456.9	460.7
92.5°	2.5	97.6	299.2	418.1	430.6
95°	5.0	82.6	285.4	388.1	405.6
97.5°	6.3	72.6	267.9	360.5	375.5
100°	7.5	65.1	246.6	331.7	344.2
102.5°	8.8	60.1	226.6	301.7	311.7
105°	10.0	55.1	207.8	275.4	282.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	12.5	42.6	156.5	197.8	204.0
115°	13.8	38.8	140.2	175.3	179.0
117.5°	15.0	33.8	122.7	154.0	155.2
120°	15.0	30.0	105.2	131.4	131.4
122.5°	15.0	25.0	87.6	108.9	107.7
125°	15.0	20.0	71.4	90.1	88.9
127.5°	13.8	16.3	57.6	75.1	73.9
130°	13.8	16.3	46.3	63.8	63.8
132.5°	12.5	15.0	37.6	55.1	55.1
135°	12.5	15.0	31.3	48.8	48.8
137.5°	12.5	16.3	26.3	42.6	42.6
140°	12.5	15.0	22.5	37.6	37.6
142.5°	13.8	15.0	20.0	32.5	32.5
145°	15.0	16.3	18.8	28.8	27.5
147.5°	15.0	17.5	18.8	25.0	23.8
150°	15.0	18.8	18.8	22.5	21.3
152.5°	15.0	18.8	18.8	21.3	20.0
155°	15.0	18.8	20.0	21.3	18.8
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°	10.0	51.3	190.3	246.6	255.4
110°	11.3	46.3	174.0	220.3	229.1



(END OF REPORT)