

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: P830028

Luminaire Tested: **OHBL-24HE-A-UNV-L935-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830028
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-200-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-24HE-A-UNV-L935-CD
Description: 24000 LUMEN OHBL HE LED LUMINAIRE WITH 90CRI, 3500K LEDS AND AISLE LENS
Light Source: -
Ballast/Driver: -

Summary

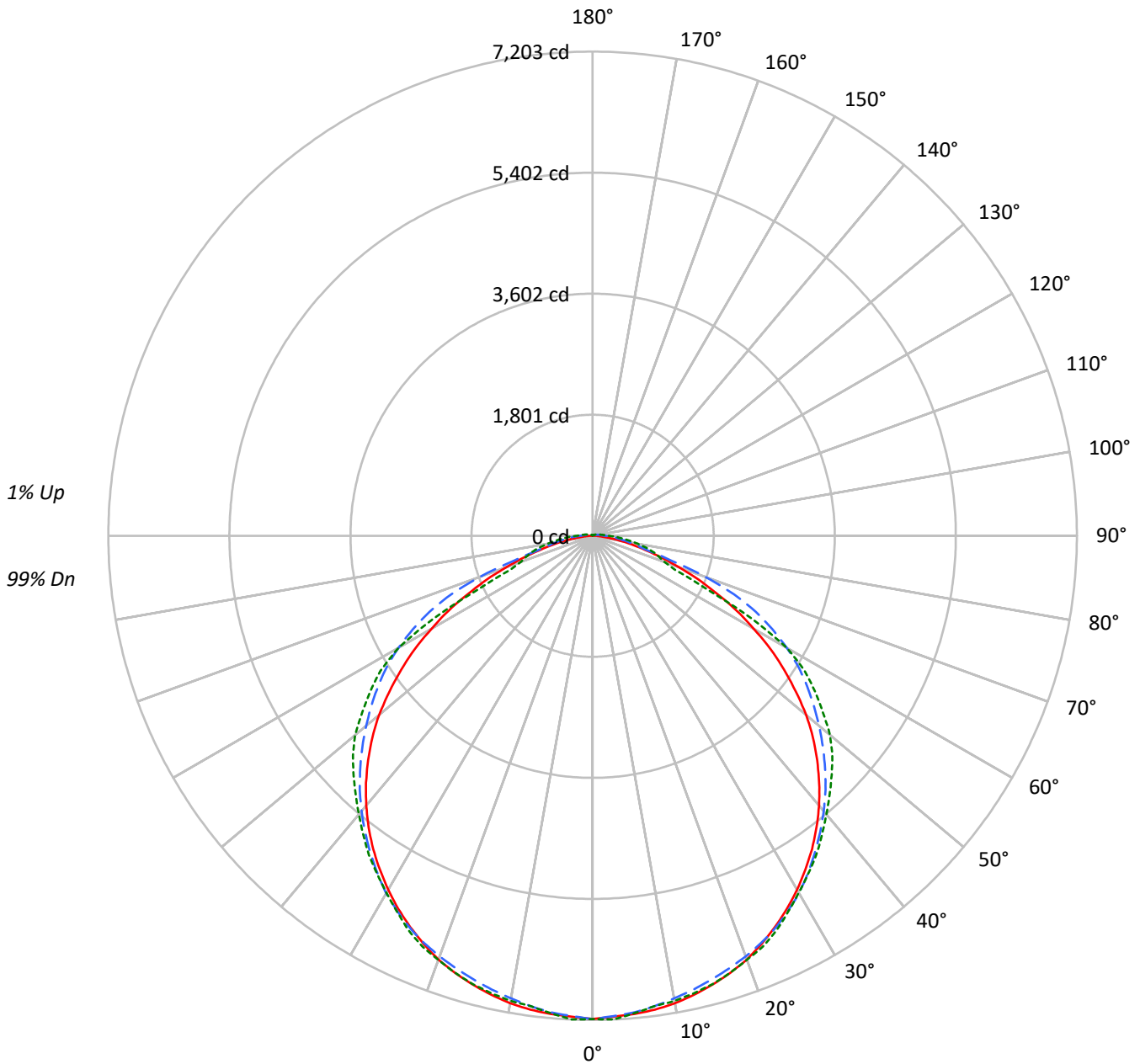
Lumens per Lamp: N/A
Luminaire Lumens: 20318.0 lumens
Efficiency: N/A
Efficacy: 152.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

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	119	119	119	119	116	116	116	116	110	110	110	106	106	106	101	101	101					99															
1	109	104	100	96	106	102	98	95	97	94	91	93	91	88	90	87	86					83															
2	99	91	84	79	96	89	83	78	85	80	76	82	78	74	79	75	72					70															
3	91	80	72	66	88	79	71	65	75	69	64	72	67	63	70	65	61					59															
4	83	71	62	56	81	70	62	55	67	60	54	65	59	54	62	57	53					51															
5	76	64	55	48	74	62	54	48	60	53	47	58	52	46	56	50	46					44															
6	70	57	48	42	68	56	48	42	54	47	41	52	46	41	51	45	40					38															
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36					34															
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	42	36	32					30															
9	57	43	35	30	55	43	35	29	41	34	29	40	34	29	39	33	29					27															
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	36	30	26					24															

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11368	11368	11368
5°	11294	11203	11227
10°	11253	11034	11102
15°	11181	10907	11028
20°	11110	10827	10930
25°	10976	10746	10833
30°	10830	10619	10629
35°	10656	10418	10516
40°	10429	10210	10362
45°	10115	9969	10293
50°	9689	9695	10212
55°	9013	9426	9831
60°	8128	9031	9089
65°	6972	8299	5760
70°	5616	6479	4176
75°	4210	3846	4238
80°	2930	3198	4047
85°	1667	2930	3793



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	677.8	3.3
10°-20°	1943.6	9.6
20°-30°	2968.6	14.6
30°-40°	3601.9	17.7
40°-50°	3775.1	18.6
50°-60°	3420.8	16.8
60°-70°	2293.5	11.3
70°-80°	1029.9	5.1
80°-90°	373.7	1.8
90°-100°	112.5	0.6
100°-110°	53.1	0.3
110°-120°	26.6	0.1
120°-130°	14.7	0.1
130°-140°	10.1	0.0
140°-150°	6.8	0.0
150°-160°	5.0	0.0
160°-170°	3.2	0.0
170°-180°	1.0	0.0
0°-30°	5590.0	27.5
0°-40°	9191.9	45.2
0°-60°	16387.8	80.7
0°-90°	20085.0	98.9
90°-120°	192.2	0.9
90°-150°	223.7	1.1
90°-180°	233.0	1.1
0°-180°	20318.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7188	7188	7188	7188	7188	
5°	7142	7167	7117	7139	7129	679
15°	6910	6883	6834	6894	6903	1951
25°	6419	6391	6436	6495	6476	2959
35°	5690	5703	5761	5823	5800	3556
45°	4722	4799	4888	5013	5029	3638
55°	3475	3642	3890	4046	4037	3102
65°	2039	2358	2678	2260	1845	2032
75°	802	1164	856	876	933	877
85°	138	265	340	411	430	169
90°	1	88	176	220	231	8
95°	1	55	121	147	151	1
105°	4	24	59	72	75	5
115°	8	12	30	38	40	8
125°	7	8	19	22	23	7
135°	9	10	11	17	18	7
145°	9	10	10	11	12	6
155°	10	11	11	11	10	5
165°	11	11	11	11	11	3
175°	11	11	10	9	9	1
180°	10	10	10	10	10	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7188.5	7188.5	7188.5	7188.5	7188.5
2.5°	7159.4	7189.6	7152.1	7192.7	7203.1
5°	7141.8	7166.7	7116.8	7138.6	7129.3
7.5°	7109.5	7117.8	7058.6	7076.3	7057.6
10°	7061.7	7057.6	6987.9	7022.2	7026.4
12.5°	6991.0	6978.6	6916.2	6968.2	6969.2
15°	6910.0	6882.9	6834.1	6894.4	6902.7
17.5°	6816.4	6781.1	6748.9	6826.8	6814.3
20°	6707.3	6665.7	6659.5	6744.7	6713.5
22.5°	6572.2	6539.9	6554.5	6635.6	6615.8
25°	6419.4	6391.3	6436.0	6495.2	6476.5
27.5°	6258.3	6241.6	6292.6	6338.3	6301.9
30°	6081.6	6072.2	6139.8	6177.2	6131.5
32.5°	5889.3	5892.4	5956.8	6007.8	5965.1
35°	5689.7	5703.2	5761.4	5822.7	5799.9
37.5°	5470.4	5500.5	5558.7	5628.4	5604.5
40°	5238.6	5282.3	5346.7	5430.9	5409.1
42.5°	4988.1	5043.2	5126.3	5219.9	5217.8
45°	4722.0	4798.9	4888.3	5013.1	5028.6
47.5°	4445.5	4531.8	4645.1	4811.4	4835.3
50°	4145.1	4253.2	4394.6	4594.2	4608.7
52.5°	3810.5	3958.1	4145.1	4336.4	4318.7
55°	3474.7	3642.1	3890.5	4046.4	4037.0
57.5°	3140.0	3328.2	3629.6	3740.8	3739.8
60°	2765.9	3003.9	3333.4	3417.6	3334.4
62.5°	2419.7	2675.4	3017.4	2956.1	2671.3
65°	2039.3	2358.4	2677.5	2259.7	1844.9
67.5°	1701.5	2034.1	2274.2	1547.7	1325.2
70°	1361.6	1728.5	1773.2	1148.5	1133.0
72.5°	1060.2	1451.0	1223.4	983.3	1033.2
75°	802.4	1164.1	856.5	876.2	933.4
77.5°	585.2	893.9	666.3	768.1	814.9
80°	402.2	633.0	543.6	645.5	677.7
82.5°	252.6	417.8	435.5	519.7	553.0
85°	138.2	265.0	339.9	410.6	430.3
87.5°	57.2	160.1	259.9	317.0	333.6
90°	1.0	88.3	175.7	220.4	230.7
92.5°	1.0	67.6	143.4	177.7	185.0
95°	1.0	55.1	120.6	146.6	150.7
97.5°	2.1	43.7	100.8	121.6	125.8
100°	3.1	36.4	84.2	101.9	105.0
102.5°	4.2	29.1	70.7	85.2	88.3
105°	4.2	23.9	59.2	71.7	74.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	7.3	14.6	35.3	44.7	46.8
115°	8.3	12.5	30.1	38.5	40.5
117.5°	8.3	10.4	26.0	32.2	34.3
120°	8.3	9.4	22.9	28.1	29.1
122.5°	8.3	8.3	19.7	24.9	26.0
125°	7.3	8.3	18.7	21.8	22.9
127.5°	8.3	8.3	16.6	19.7	20.8
130°	8.3	9.4	14.6	18.7	18.7
132.5°	9.4	10.4	13.5	17.7	17.7
135°	9.4	10.4	11.4	16.6	17.7
137.5°	10.4	10.4	10.4	15.6	16.6
140°	10.4	10.4	9.4	13.5	14.6
142.5°	9.4	10.4	9.4	12.5	13.5
145°	9.4	10.4	10.4	11.4	12.5
147.5°	10.4	10.4	10.4	10.4	11.4
150°	10.4	10.4	10.4	10.4	10.4
152.5°	10.4	10.4	10.4	10.4	10.4
155°	10.4	11.4	11.4	11.4	10.4
157.5°	10.4	11.4	11.4	11.4	11.4
160°	10.4	11.4	11.4	11.4	11.4
162.5°	11.4	11.4	11.4	11.4	11.4
165°	11.4	11.4	11.4	11.4	11.4
167.5°	11.4	12.5	11.4	11.4	11.4
170°	11.4	11.4	11.4	10.4	10.4
172.5°	11.4	11.4	11.4	10.4	10.4
175°	11.4	11.4	10.4	9.4	9.4
177.5°	12.5	11.4	10.4	9.4	8.3
180°	10.4	10.4	10.4	10.4	10.4



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	5.2	19.7	50.9	61.3	63.4
110°	6.2	16.6	42.6	52.0	54.0



(END OF REPORT)