

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: P830029

Luminaire Tested: **OHBL-24HE-A-UNV-L940-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830029
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-L940-CD
Description: 24000 LUMEN OHBL HE LED LUMINAIRE WITH 90CRI, 4000K LEDS AND AISLE LENS
Light Source: -
Ballast/Driver: -

Summary

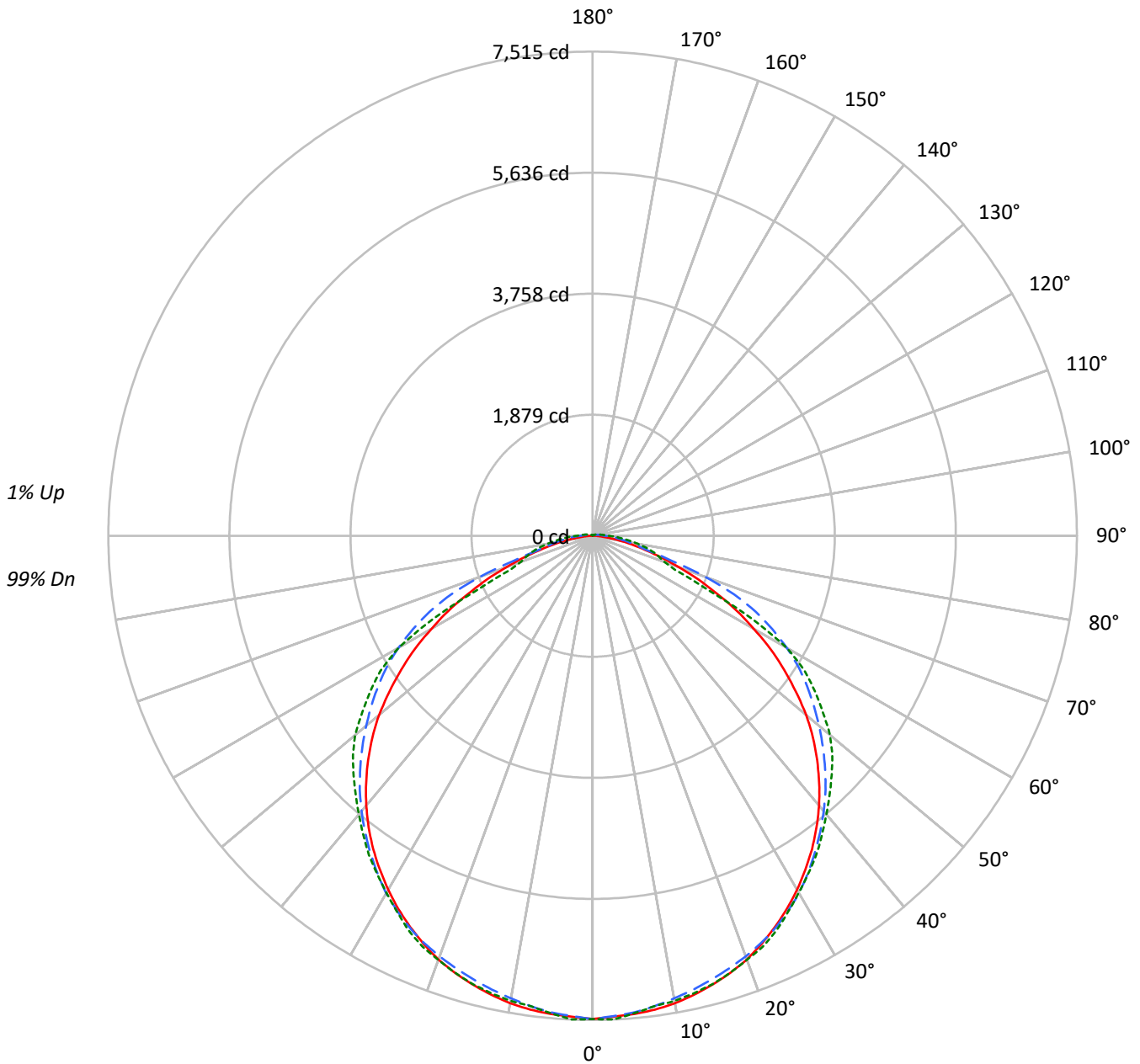
Lumens per Lamp: N/A
Luminaire Lumens: 21198.0 lumens
Efficiency: N/A
Efficacy: 159.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

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°	11861	11861	11861
5°	11783	11688	11713
10°	11740	11512	11583
15°	11666	11379	11506
20°	11591	11296	11404
25°	11451	11212	11303
30°	11299	11079	11089
35°	11117	10869	10971
40°	10881	10652	10810
45°	10553	10401	10739
50°	10109	10115	10654
55°	9403	9834	10257
60°	8480	9422	9482
65°	7274	8659	6010
70°	5859	6759	4357
75°	4393	4013	4422
80°	3058	3337	4222
85°	1740	3057	3958



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	707.2	3.3
10°-20°	2027.8	9.6
20°-30°	3097.1	14.6
30°-40°	3757.9	17.7
40°-50°	3938.6	18.6
50°-60°	3569.0	16.8
60°-70°	2392.9	11.3
70°-80°	1074.5	5.1
80°-90°	389.9	1.8
90°-100°	117.4	0.6
100°-110°	55.4	0.3
110°-120°	27.8	0.1
120°-130°	15.3	0.1
130°-140°	10.5	0.0
140°-150°	7.1	0.0
150°-160°	5.2	0.0
160°-170°	3.4	0.0
170°-180°	1.1	0.0
0°-30°	5832.1	27.5
0°-40°	9590.0	45.2
0°-60°	17097.6	80.7
0°-90°	20954.9	98.9
90°-120°	200.5	0.9
90°-150°	233.4	1.1
90°-180°	243.0	1.1
0°-180°	21198.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7500	7500	7500	7500	7500	
5°	7451	7477	7425	7448	7438	709
15°	7209	7181	7130	7193	7202	2035
25°	6697	6668	6715	6777	6757	3087
35°	5936	5950	6011	6075	6051	3710
45°	4926	5007	5100	5230	5246	3795
55°	3625	3800	4059	4222	4212	3236
65°	2128	2461	2794	2358	1925	2120
75°	837	1215	894	914	974	915
85°	144	276	355	428	449	176
90°	1	92	183	230	241	9
95°	1	58	126	153	157	1
105°	4	25	62	75	78	5
115°	9	13	31	40	42	8
125°	8	9	20	23	24	8
135°	10	11	12	17	18	8
145°	10	11	11	12	13	6
155°	11	12	12	12	11	5
165°	12	12	12	12	12	3
175°	12	12	11	10	10	1
180°	11	11	11	11	11	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7499.9	7499.9	7499.9	7499.9	7499.9
2.5°	7469.5	7501.0	7461.9	7504.2	7515.1
5°	7451.1	7477.1	7425.0	7447.8	7438.1
7.5°	7417.5	7426.1	7364.3	7382.8	7363.2
10°	7367.6	7363.2	7290.6	7326.4	7330.7
12.5°	7293.8	7280.8	7215.8	7270.0	7271.1
15°	7209.2	7181.0	7130.1	7193.0	7201.7
17.5°	7111.6	7074.8	7041.2	7122.5	7109.5
20°	6997.8	6954.4	6947.9	7036.8	7004.3
22.5°	6856.8	6823.2	6838.4	6923.0	6902.4
25°	6697.4	6668.1	6714.7	6776.6	6757.0
27.5°	6529.3	6512.0	6565.1	6612.8	6574.9
30°	6345.0	6335.2	6405.7	6444.7	6397.0
32.5°	6144.3	6147.6	6214.8	6268.0	6223.5
35°	5936.1	5950.2	6011.0	6074.9	6051.1
37.5°	5707.3	5738.8	5799.5	5872.2	5847.2
40°	5465.5	5511.0	5578.3	5666.1	5643.3
42.5°	5204.1	5261.6	5348.4	5446.0	5443.8
45°	4926.5	5006.8	5100.0	5230.2	5246.4
47.5°	4638.1	4728.1	4846.3	5019.8	5044.7
50°	4324.7	4437.5	4584.9	4793.2	4808.3
52.5°	3975.5	4129.5	4324.7	4524.2	4505.8
55°	3625.2	3799.8	4059.0	4221.7	4211.9
57.5°	3276.0	3472.3	3786.8	3902.8	3901.8
60°	2885.6	3134.0	3477.7	3565.6	3478.8
62.5°	2524.5	2791.3	3148.1	3084.1	2787.0
65°	2127.6	2460.6	2793.5	2357.5	1924.9
67.5°	1775.2	2122.2	2372.7	1614.7	1382.6
70°	1420.6	1803.4	1850.0	1198.3	1182.0
72.5°	1106.1	1513.9	1276.4	1025.9	1077.9
75°	837.2	1214.6	893.6	914.2	973.8
77.5°	610.5	932.6	695.1	801.4	850.2
80°	419.7	660.4	567.2	673.4	707.0
82.5°	263.5	435.9	454.4	542.2	576.9
85°	144.2	276.5	354.6	428.3	449.0
87.5°	59.6	167.0	271.1	330.7	348.1
90°	1.1	92.2	183.3	229.9	240.7
92.5°	1.1	70.5	149.7	185.4	193.0
95°	1.1	57.5	125.8	152.9	157.2
97.5°	2.2	45.5	105.2	126.9	131.2
100°	3.3	38.0	87.8	106.3	109.5
102.5°	4.3	30.4	73.7	88.9	92.2
105°	4.3	24.9	61.8	74.8	78.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	7.6	15.2	36.9	46.6	48.8
115°	8.7	13.0	31.4	40.1	42.3
117.5°	8.7	10.8	27.1	33.6	35.8
120°	8.7	9.8	23.9	29.3	30.4
122.5°	8.7	8.7	20.6	26.0	27.1
125°	7.6	8.7	19.5	22.8	23.9
127.5°	8.7	8.7	17.4	20.6	21.7
130°	8.7	9.8	15.2	19.5	19.5
132.5°	9.8	10.8	14.1	18.4	18.4
135°	9.8	10.8	11.9	17.4	18.4
137.5°	10.8	10.8	10.8	16.3	17.4
140°	10.8	10.8	9.8	14.1	15.2
142.5°	9.8	10.8	9.8	13.0	14.1
145°	9.8	10.8	10.8	11.9	13.0
147.5°	10.8	10.8	10.8	10.8	11.9
150°	10.8	10.8	10.8	10.8	10.8
152.5°	10.8	10.8	10.8	10.8	10.8
155°	10.8	11.9	11.9	11.9	10.8
157.5°	10.8	11.9	11.9	11.9	11.9
160°	10.8	11.9	11.9	11.9	11.9
162.5°	11.9	11.9	11.9	11.9	11.9
165°	11.9	11.9	11.9	11.9	11.9
167.5°	11.9	13.0	11.9	11.9	11.9
170°	11.9	11.9	11.9	10.8	10.8
172.5°	11.9	11.9	11.9	10.8	10.8
175°	11.9	11.9	10.8	9.8	9.8
177.5°	13.0	11.9	10.8	9.8	8.7
180°	10.8	10.8	10.8	10.8	10.8



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	5.4	20.6	53.1	64.0	66.1
110°	6.5	17.4	44.5	54.2	56.4



(END OF REPORT)