

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: P830461

Luminaire Tested: **OHBL-48HE-A-UNV-L940-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830461
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-48HE-A-UNV-L940-CD
Description: 48000 LUMEN OHBL HE LED LUMINAIRE WITH 90CRI, 4000K LEDS AND AISLE LENS
Light Source: -
Ballast/Driver: -

Summary

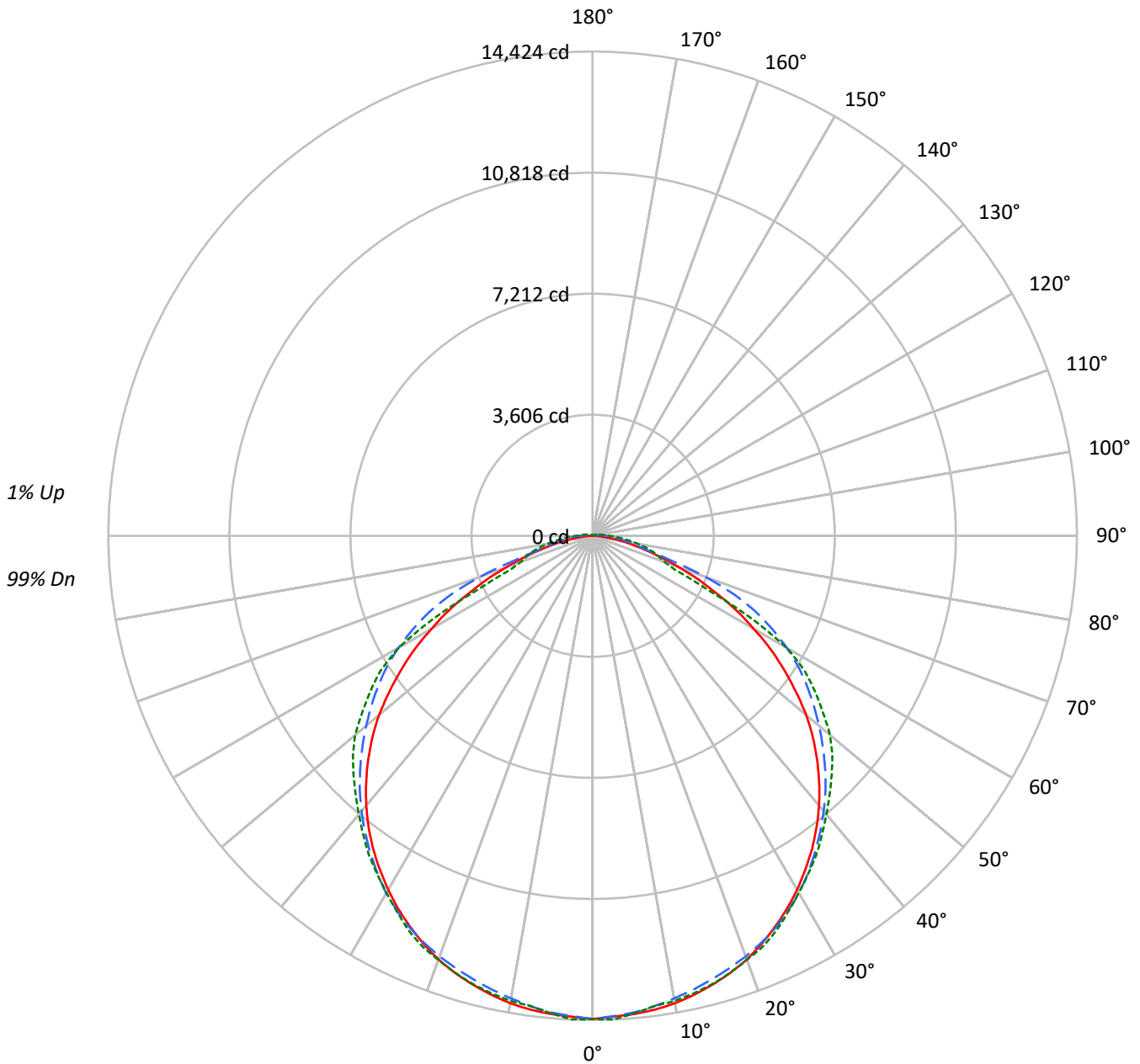
Lumens per Lamp: N/A
Luminaire Lumens: 40686.0 lumens
Efficiency: N/A
Efficacy: 153.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 266
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°	22765	22765	22765
5°	22616	22434	22481
10°	22533	22094	22232
15°	22390	21840	22083
20°	22247	21680	21887
25°	21979	21519	21694
30°	21687	21265	21283
35°	21338	20862	21057
40°	20884	20445	20749
45°	20255	19963	20612
50°	19403	19415	20449
55°	18048	18875	19686
60°	16275	18085	18200
65°	13961	16619	11534
70°	11245	12973	8362
75°	8431	7701	8487
80°	5869	6404	8103
85°	3340	5867	7596



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1357.3	3.3
10°-20°	3892.1	9.6
20°-30°	5944.4	14.6
30°-40°	7212.6	17.7
40°-50°	7559.5	18.6
50°-60°	6850.0	16.8
60°-70°	4592.7	11.3
70°-80°	2062.3	5.1
80°-90°	748.4	1.8
90°-100°	225.3	0.6
100°-110°	106.3	0.3
110°-120°	53.3	0.1
120°-130°	29.4	0.1
130°-140°	20.2	0.0
140°-150°	13.6	0.0
150°-160°	10.1	0.0
160°-170°	6.5	0.0
170°-180°	2.1	0.0
0°-30°	11193.8	27.5
0°-40°	18406.4	45.2
0°-60°	32815.9	80.7
0°-90°	40219.3	98.9
90°-120°	384.8	0.9
90°-150°	448.0	1.1
90°-180°	467.0	1.1
0°-180°	40686.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	14395	14395	14395	14395	14395	
5°	14301	14351	14251	14295	14276	###
15°	13837	13783	13685	13806	13822	3907
25°	12854	12798	12888	13006	12969	5925
35°	11393	11420	11537	11660	11614	7121
45°	9456	9610	9789	10038	10070	7284
55°	6958	7293	7791	8103	8084	6211
65°	4084	4723	5362	4525	3694	4069
75°	1607	2331	1715	1755	1869	1756
85°	277	531	681	822	862	338
90°	2	177	352	441	462	17
95°	2	110	241	294	302	3
105°	8	48	119	144	150	10
115°	17	25	60	77	81	16
125°	15	17	38	44	46	15
135°	19	21	23	33	35	15
145°	19	21	21	23	25	12
155°	21	23	23	23	21	10
165°	23	23	23	23	23	6
175°	23	23	21	19	19	2
180°	21	21	21	21	21	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	14394.7	14394.7	14394.7	14394.7	14394.7
2.5°	14336.5	14396.8	14321.9	14403.1	14423.9
5°	14301.1	14351.0	14251.1	14294.8	14276.1
7.5°	14236.6	14253.2	14134.6	14170.0	14132.5
10°	14140.8	14132.5	13993.0	14061.7	14070.0
12.5°	13999.3	13974.3	13849.4	13953.5	13955.6
15°	13836.9	13782.8	13685.0	13805.7	13822.4
17.5°	13649.6	13578.8	13514.3	13670.4	13645.4
20°	13431.1	13347.8	13335.3	13506.0	13443.6
22.5°	13160.5	13096.0	13125.1	13287.5	13247.9
25°	12854.5	12798.3	12887.8	13006.5	12969.0
27.5°	12531.9	12498.6	12600.6	12692.2	12619.3
30°	12178.1	12159.4	12294.6	12369.6	12278.0
32.5°	11793.0	11799.3	11928.3	12030.3	11945.0
35°	11393.4	11420.5	11537.0	11659.8	11614.0
37.5°	10954.2	11014.6	11131.2	11270.6	11222.7
40°	10490.1	10577.5	10706.6	10875.1	10831.4
42.5°	9988.5	10098.8	10265.3	10452.6	10448.5
45°	9455.7	9609.7	9788.7	10038.4	10069.7
47.5°	8902.0	9074.8	9301.6	9634.7	9682.5
50°	8300.5	8517.0	8800.0	9199.6	9228.8
52.5°	7630.3	7925.8	8300.5	8683.5	8648.1
55°	6958.0	7293.1	7790.6	8102.8	8084.0
57.5°	6287.8	6664.5	7268.1	7490.8	7488.8
60°	5538.5	6015.2	6674.9	6843.5	6677.0
62.5°	4845.4	5357.4	6042.2	5919.4	5349.1
65°	4083.6	4722.6	5361.6	4524.9	3694.4
67.5°	3407.2	4073.2	4554.0	3099.2	2653.7
70°	2726.6	3461.3	3550.8	2299.9	2268.7
72.5°	2123.0	2905.6	2449.8	1969.0	2068.9
75°	1606.8	2331.1	1715.0	1754.6	1869.1
77.5°	1171.8	1790.0	1334.2	1538.1	1631.8
80°	805.5	1267.6	1088.6	1292.5	1357.1
82.5°	505.8	836.7	872.1	1040.7	1107.3
85°	276.8	530.7	680.6	822.1	861.7
87.5°	114.5	320.5	520.3	634.8	668.1
90°	2.1	176.9	351.8	441.3	462.1
92.5°	2.1	135.3	287.2	355.9	370.5
95°	2.1	110.3	241.4	293.5	301.8
97.5°	4.2	87.4	201.9	243.5	251.8
100°	6.2	72.8	168.6	204.0	210.2
102.5°	8.3	58.3	141.5	170.7	176.9
105°	8.3	47.9	118.6	143.6	149.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	14.6	29.1	70.8	89.5	93.7
115°	16.7	25.0	60.4	77.0	81.2
117.5°	16.7	20.8	52.0	64.5	68.7
120°	16.7	18.7	45.8	56.2	58.3
122.5°	16.7	16.7	39.5	50.0	52.0
125°	14.6	16.7	37.5	43.7	45.8
127.5°	16.7	16.7	33.3	39.5	41.6
130°	16.7	18.7	29.1	37.5	37.5
132.5°	18.7	20.8	27.1	35.4	35.4
135°	18.7	20.8	22.9	33.3	35.4
137.5°	20.8	20.8	20.8	31.2	33.3
140°	20.8	20.8	18.7	27.1	29.1
142.5°	18.7	20.8	18.7	25.0	27.1
145°	18.7	20.8	20.8	22.9	25.0
147.5°	20.8	20.8	20.8	20.8	22.9
150°	20.8	20.8	20.8	20.8	20.8
152.5°	20.8	20.8	20.8	20.8	20.8
155°	20.8	22.9	22.9	22.9	20.8
157.5°	20.8	22.9	22.9	22.9	22.9
160°	20.8	22.9	22.9	22.9	22.9
162.5°	22.9	22.9	22.9	22.9	22.9
165°	22.9	22.9	22.9	22.9	22.9
167.5°	22.9	25.0	22.9	22.9	22.9
170°	22.9	22.9	22.9	20.8	20.8
172.5°	22.9	22.9	22.9	20.8	20.8
175°	22.9	22.9	20.8	18.7	18.7
177.5°	25.0	22.9	20.8	18.7	16.7
180°	20.8	20.8	20.8	20.8	20.8



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	10.4	39.5	102.0	122.8	127.0
110°	12.5	33.3	85.3	104.1	108.2



(END OF REPORT)