

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: P830457

Luminaire Tested: **OHBL-48HE-A-UNV-L840-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830457
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-L840-CD
Description: 48000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND AISLE LENS
Light Source: -
Ballast/Driver: -

Summary

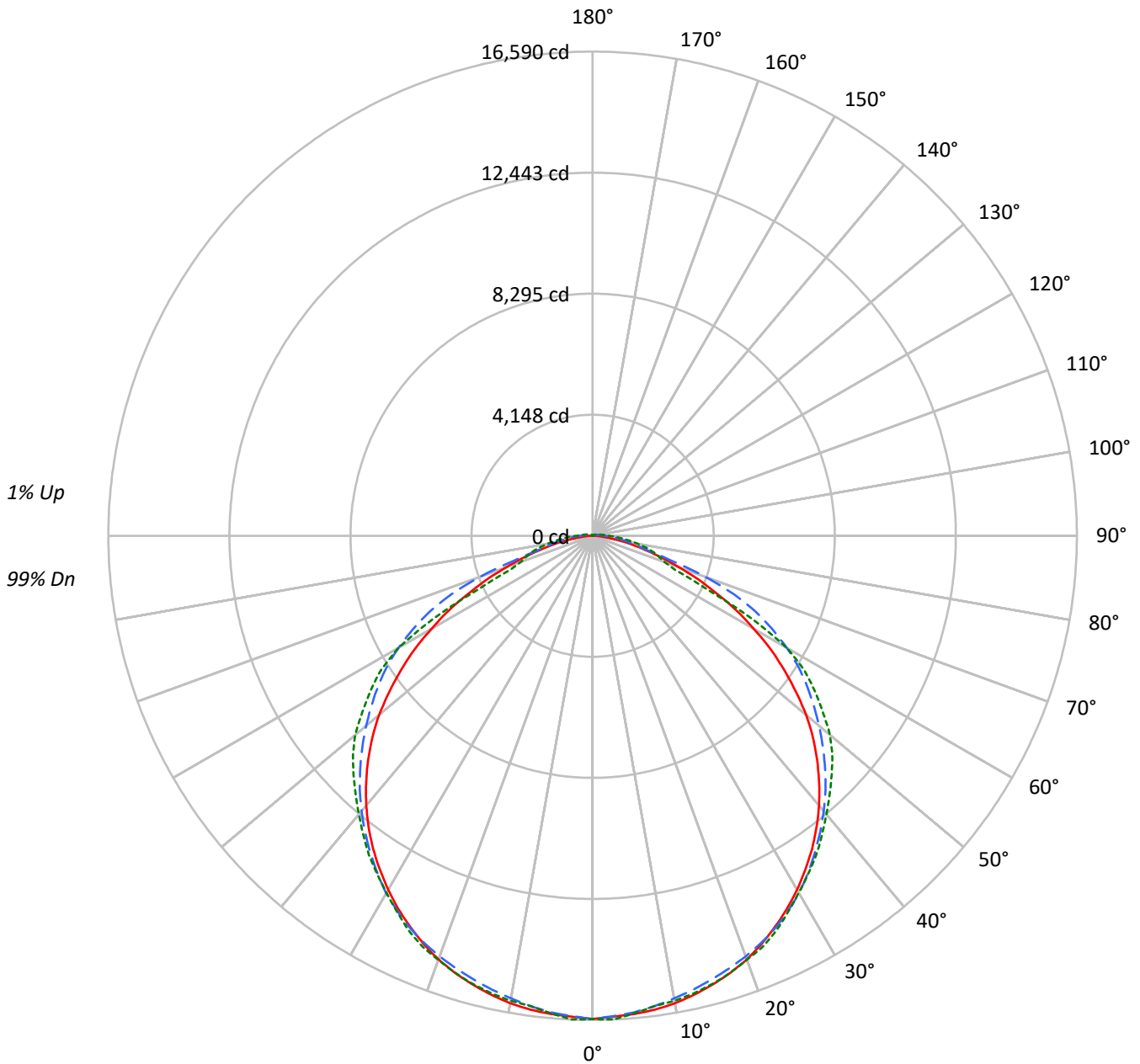
Lumens per Lamp: N/A
Luminaire Lumens: 46794.9 lumens
Efficiency: N/A
Efficacy: 175.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

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°	26183	26183	26183
5°	26012	25803	25857
10°	25917	25412	25570
15°	25752	25120	25399
20°	25587	24935	25174
25°	25279	24750	24951
30°	24943	24458	24479
35°	24542	23994	24219
40°	24020	23515	23864
45°	23296	22961	23707
50°	22316	22330	23519
55°	20758	21709	22642
60°	18719	20800	20932
65°	16058	19114	13266
70°	12934	14921	9618
75°	9697	8858	9762
80°	6750	7365	9320
85°	3842	6748	8736



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1561.1	3.3
10°-20°	4476.5	9.6
20°-30°	6837.0	14.6
30°-40°	8295.6	17.7
40°-50°	8694.6	18.6
50°-60°	7878.6	16.8
60°-70°	5282.3	11.3
70°-80°	2372.0	5.1
80°-90°	860.8	1.8
90°-100°	259.1	0.6
100°-110°	122.3	0.3
110°-120°	61.3	0.1
120°-130°	33.8	0.1
130°-140°	23.2	0.0
140°-150°	15.6	0.0
150°-160°	11.6	0.0
160°-170°	7.5	0.0
170°-180°	2.4	0.0
0°-30°	12874.5	27.5
0°-40°	21170.1	45.2
0°-60°	37743.2	80.7
0°-90°	46258.2	98.9
90°-120°	442.6	0.9
90°-150°	515.3	1.1
90°-180°	537.0	1.1
0°-180°	46794.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16556	16556	16556	16556	16556	
5°	16448	16506	16391	16441	16420	###
15°	15914	15852	15740	15879	15898	4493
25°	14785	14720	14823	14959	14916	6815
35°	13104	13135	13269	13410	13358	8190
45°	10875	11053	11258	11546	11582	8378
55°	8003	8388	8960	9319	9298	7143
65°	4697	5432	6167	5204	4249	4680
75°	1848	2681	1973	2018	2150	2020
85°	318	610	783	946	991	389
90°	2	204	405	508	531	19
95°	2	127	278	338	347	3
105°	10	55	136	165	172	11
115°	19	29	69	89	93	18
125°	17	19	43	50	53	17
135°	22	24	26	38	41	17
145°	22	24	24	26	29	14
155°	24	26	26	26	24	11
165°	26	26	26	26	26	7
175°	26	26	24	22	22	3
180°	24	24	24	24	24	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	16556.1	16556.1	16556.1	16556.1	16556.1
2.5°	16489.1	16558.5	16472.3	16565.7	16589.6
5°	16448.4	16505.8	16390.9	16441.2	16419.7
7.5°	16374.2	16393.3	16256.9	16297.6	16254.5
10°	16264.1	16254.5	16094.1	16173.1	16182.7
12.5°	16101.3	16072.5	15928.9	16048.6	16051.0
15°	15914.5	15852.3	15739.8	15878.6	15897.8
17.5°	15699.1	15617.7	15543.5	15723.0	15694.3
20°	15447.7	15352.0	15337.6	15533.9	15462.1
22.5°	15136.5	15062.3	15095.8	15282.6	15237.1
25°	14784.6	14720.0	14822.9	14959.4	14916.3
27.5°	14413.6	14375.3	14492.6	14597.9	14514.1
30°	14006.6	13985.1	14140.7	14226.9	14121.5
32.5°	13563.8	13570.9	13719.4	13836.7	13738.5
35°	13104.1	13135.2	13269.3	13410.5	13357.9
37.5°	12599.0	12668.4	12802.5	12962.9	12907.8
40°	12065.2	12165.7	12314.1	12508.1	12457.8
42.5°	11488.3	11615.1	11806.6	12022.1	12017.3
45°	10875.4	11052.6	11258.4	11545.7	11581.6
47.5°	10238.6	10437.3	10698.3	11081.3	11136.4
50°	9546.8	9795.8	10121.3	10581.0	10614.5
52.5°	8776.0	9115.9	9546.8	9987.3	9946.6
55°	8002.8	8388.2	8960.3	9319.4	9297.9
57.5°	7231.9	7665.2	8359.4	8615.6	8613.2
60°	6370.1	6918.3	7677.2	7871.1	7679.6
62.5°	5573.0	6161.9	6949.4	6808.2	6152.3
65°	4696.8	5431.7	6166.6	5204.3	4249.1
67.5°	3918.8	4684.8	5237.8	3564.5	3052.2
70°	3136.0	3981.0	4084.0	2645.2	2609.3
72.5°	2441.8	3341.9	2817.6	2264.6	2379.5
75°	1848.1	2681.2	1972.6	2018.0	2149.7
77.5°	1347.8	2058.7	1534.5	1769.1	1876.8
80°	926.4	1457.9	1252.0	1486.6	1560.8
82.5°	581.7	962.3	1003.0	1196.9	1273.5
85°	318.4	610.4	782.8	945.6	991.1
87.5°	131.7	368.7	598.5	730.1	768.4
90°	2.4	203.5	404.6	507.5	531.4
92.5°	2.4	155.6	330.4	409.4	426.1
95°	2.4	126.9	277.7	337.5	347.1
97.5°	4.8	100.5	232.2	280.1	289.7
100°	7.2	83.8	193.9	234.6	241.8
102.5°	9.6	67.0	162.8	196.3	203.5
105°	9.6	55.1	136.5	165.2	172.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	16.8	33.5	81.4	102.9	107.7
115°	19.2	28.7	69.4	88.6	93.4
117.5°	19.2	23.9	59.8	74.2	79.0
120°	19.2	21.5	52.7	64.6	67.0
122.5°	19.2	19.2	45.5	57.5	59.8
125°	16.8	19.2	43.1	50.3	52.7
127.5°	19.2	19.2	38.3	45.5	47.9
130°	19.2	21.5	33.5	43.1	43.1
132.5°	21.5	23.9	31.1	40.7	40.7
135°	21.5	23.9	26.3	38.3	40.7
137.5°	23.9	23.9	23.9	35.9	38.3
140°	23.9	23.9	21.5	31.1	33.5
142.5°	21.5	23.9	21.5	28.7	31.1
145°	21.5	23.9	23.9	26.3	28.7
147.5°	23.9	23.9	23.9	23.9	26.3
150°	23.9	23.9	23.9	23.9	23.9
152.5°	23.9	23.9	23.9	23.9	23.9
155°	23.9	26.3	26.3	26.3	23.9
157.5°	23.9	26.3	26.3	26.3	26.3
160°	23.9	26.3	26.3	26.3	26.3
162.5°	26.3	26.3	26.3	26.3	26.3
165°	26.3	26.3	26.3	26.3	26.3
167.5°	26.3	28.7	26.3	26.3	26.3
170°	26.3	26.3	26.3	23.9	23.9
172.5°	26.3	26.3	26.3	23.9	23.9
175°	26.3	26.3	23.9	21.5	21.5
177.5°	28.7	26.3	23.9	21.5	19.2
180°	23.9	23.9	23.9	23.9	23.9



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	12.0	45.5	117.3	141.2	146.0
110°	14.4	38.3	98.1	119.7	124.5



(END OF REPORT)