

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: P830464

Luminaire Tested: **OHBL-48HE-MCL-UNV-L735-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830464
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-MCL-UNV-L735-CD
Description: 48000 LUMEN OHBL HE LED LUMINAIRE WITH 70CRI, 3500K LEDS AND MEDIUM CLEAR LENS
Light Source: -
Ballast/Driver: -

Summary

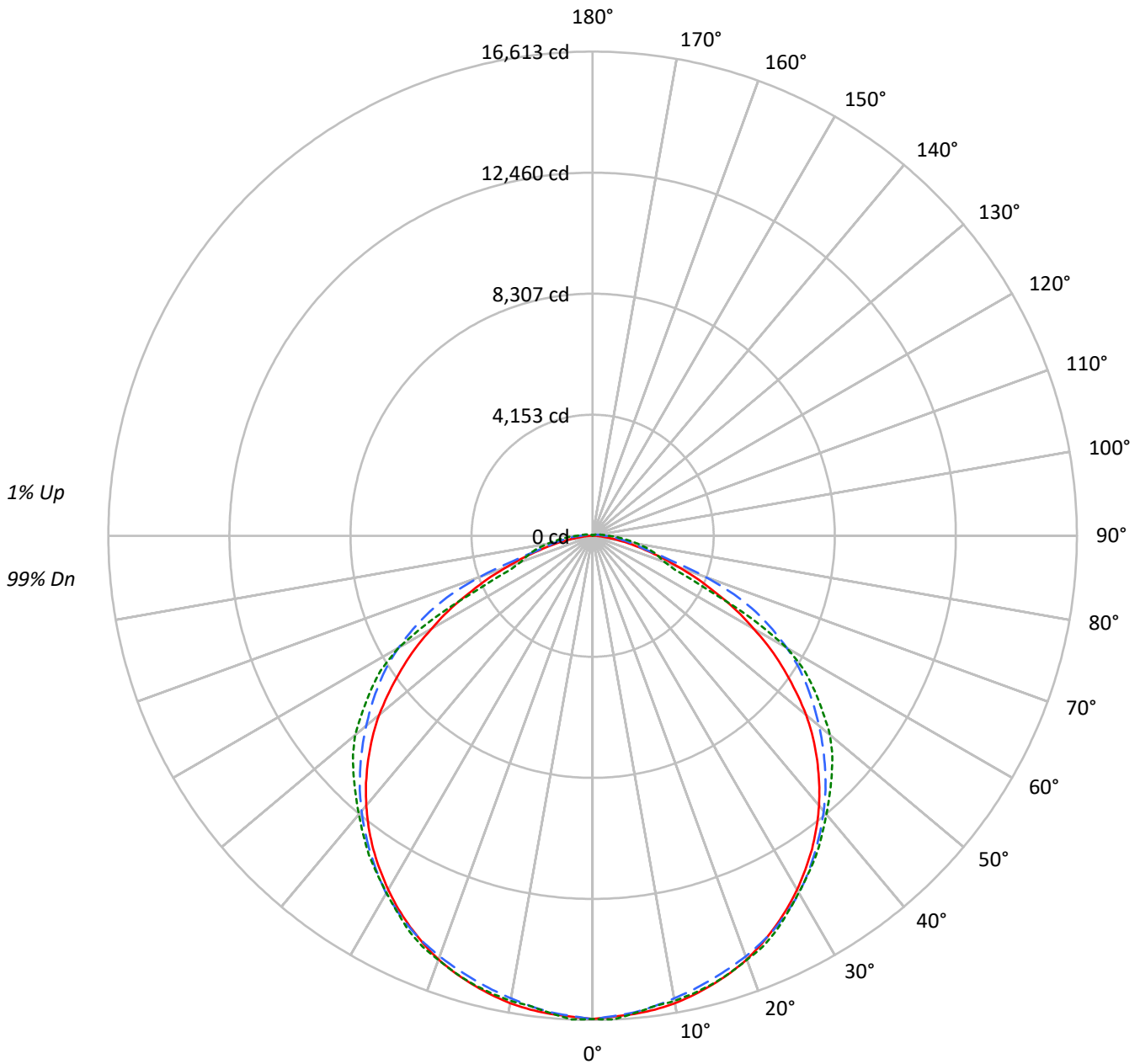
Lumens per Lamp: N/A
Luminaire Lumens: 46861.1 lumens
Efficiency: N/A
Efficacy: 176.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

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°	26220	26220	26220
5°	26048	25839	25893
10°	25953	25448	25606
15°	25788	25155	25434
20°	25624	24971	25209
25°	25315	24785	24986
30°	24978	24492	24513
35°	24576	24028	24253
40°	24054	23548	23898
45°	23329	22993	23741
50°	22347	22361	23553
55°	20788	21740	22674
60°	18745	20830	20962
65°	16080	19141	13285
70°	12952	14942	9632
75°	9711	8870	9775
80°	6759	7376	9333
85°	3846	6758	8749



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1563.3	3.3
10°-20°	4482.8	9.6
20°-30°	6846.6	14.6
30°-40°	8307.3	17.7
40°-50°	8706.8	18.6
50°-60°	7889.7	16.8
60°-70°	5289.7	11.3
70°-80°	2375.3	5.1
80°-90°	862.0	1.8
90°-100°	259.5	0.6
100°-110°	122.4	0.3
110°-120°	61.4	0.1
120°-130°	33.9	0.1
130°-140°	23.3	0.0
140°-150°	15.7	0.0
150°-160°	11.6	0.0
160°-170°	7.5	0.0
170°-180°	2.4	0.0
0°-30°	12892.7	27.5
0°-40°	21200.0	45.2
0°-60°	37796.5	80.7
0°-90°	46323.5	98.9
90°-120°	443.2	0.9
90°-150°	516.0	1.1
90°-180°	538.0	1.1
0°-180°	46861.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16580	16580	16580	16580	16580	
5°	16472	16529	16414	16464	16443	###
15°	15937	15875	15762	15901	15920	4500
25°	14806	14741	14844	14980	14937	6825
35°	13123	13154	13288	13430	13377	8202
45°	10891	11068	11274	11562	11598	8390
55°	8014	8400	8973	9332	9311	7154
65°	4703	5439	6175	5212	4255	4686
75°	1851	2685	1975	2021	2153	2023
85°	319	611	784	947	992	389
90°	2	204	405	508	532	19
95°	2	127	278	338	348	3
105°	10	55	137	165	173	11
115°	19	29	70	89	94	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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CATALOG NUMBER: OHBL-48HE-MCL-UNV-L735-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	16579.5	16579.5	16579.5	16579.5	16579.5
2.5°	16512.3	16581.9	16495.6	16589.1	16613.0
5°	16471.6	16529.1	16414.1	16464.4	16442.8
7.5°	16397.3	16416.4	16279.8	16320.6	16277.4
10°	16287.0	16277.4	16116.8	16195.9	16205.5
12.5°	16124.0	16095.2	15951.4	16071.2	16073.6
15°	15937.0	15874.7	15762.0	15901.0	15920.2
17.5°	15721.2	15639.7	15565.4	15745.2	15716.4
20°	15469.5	15373.6	15359.3	15555.8	15483.9
22.5°	15157.9	15083.6	15117.1	15304.1	15258.6
25°	14805.5	14740.8	14843.8	14980.5	14937.3
27.5°	14433.9	14395.6	14513.0	14618.5	14534.6
30°	14026.4	14004.8	14160.6	14246.9	14141.4
32.5°	13582.9	13590.1	13738.7	13856.2	13757.9
35°	13122.6	13153.8	13288.0	13429.5	13376.7
37.5°	12616.8	12686.3	12820.6	12981.2	12926.0
40°	12082.2	12182.9	12331.5	12525.7	12475.3
42.5°	11504.5	11631.5	11823.3	12039.0	12034.3
45°	10890.8	11068.2	11274.3	11562.0	11598.0
47.5°	10253.1	10452.1	10713.4	11096.9	11152.1
50°	9560.3	9809.6	10135.6	10595.9	10629.5
52.5°	8788.4	9128.8	9560.3	10001.4	9960.6
55°	8014.0	8400.0	8973.0	9332.5	9311.0
57.5°	7242.1	7676.0	8371.2	8627.7	8625.3
60°	6379.1	6928.1	7688.0	7882.2	7690.4
62.5°	5580.8	6170.6	6959.3	6817.8	6161.0
65°	4703.4	5439.4	6175.3	5211.6	4255.1
67.5°	3924.3	4691.4	5245.2	3569.5	3056.5
70°	3140.4	3986.6	4089.7	2649.0	2613.0
72.5°	2445.2	3346.6	2821.6	2267.8	2382.9
75°	1850.7	2684.9	1975.3	2020.9	2152.7
77.5°	1349.7	2061.6	1536.6	1771.6	1879.5
80°	927.7	1459.9	1253.8	1488.7	1563.0
82.5°	582.5	963.7	1004.5	1198.6	1275.3
85°	318.8	611.3	783.9	946.9	992.5
87.5°	131.8	369.2	599.3	731.2	769.5
90°	2.4	203.8	405.1	508.2	532.2
92.5°	2.4	155.8	330.8	409.9	426.7
95°	2.4	127.1	278.1	338.0	347.6
97.5°	4.8	100.7	232.5	280.5	290.1
100°	7.2	83.9	194.2	234.9	242.1
102.5°	9.6	67.1	163.0	196.6	203.8
105°	9.6	55.1	136.6	165.4	172.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	16.8	33.6	81.5	103.1	107.9
115°	19.2	28.8	69.5	88.7	93.5
117.5°	19.2	24.0	59.9	74.3	79.1
120°	19.2	21.6	52.7	64.7	67.1
122.5°	19.2	19.2	45.5	57.5	59.9
125°	16.8	19.2	43.2	50.3	52.7
127.5°	19.2	19.2	38.4	45.5	47.9
130°	19.2	21.6	33.6	43.2	43.2
132.5°	21.6	24.0	31.2	40.8	40.8
135°	21.6	24.0	26.4	38.4	40.8
137.5°	24.0	24.0	24.0	36.0	38.4
140°	24.0	24.0	21.6	31.2	33.6
142.5°	21.6	24.0	21.6	28.8	31.2
145°	21.6	24.0	24.0	26.4	28.8
147.5°	24.0	24.0	24.0	24.0	26.4
150°	24.0	24.0	24.0	24.0	24.0
152.5°	24.0	24.0	24.0	24.0	24.0
155°	24.0	26.4	26.4	26.4	24.0
157.5°	24.0	26.4	26.4	26.4	26.4
160°	24.0	26.4	26.4	26.4	26.4
162.5°	26.4	26.4	26.4	26.4	26.4
165°	26.4	26.4	26.4	26.4	26.4
167.5°	26.4	28.8	26.4	26.4	26.4
170°	26.4	26.4	26.4	24.0	24.0
172.5°	26.4	26.4	26.4	24.0	24.0
175°	26.4	26.4	24.0	21.6	21.6
177.5°	28.8	26.4	24.0	21.6	19.2
180°	24.0	24.0	24.0	24.0	24.0



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	12.0	45.5	117.5	141.4	146.2
110°	14.4	38.4	98.3	119.9	124.7



(END OF REPORT)