

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: P830500

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

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P830500
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P472951)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-48HE-NL-UNV-L735-CD
Description: 48000 LUMEN OHBL HE LED LUMINAIRE WITH 70CRI, 3500K LEDS AND NO LENS
Light Source: -
Ballast/Driver: -

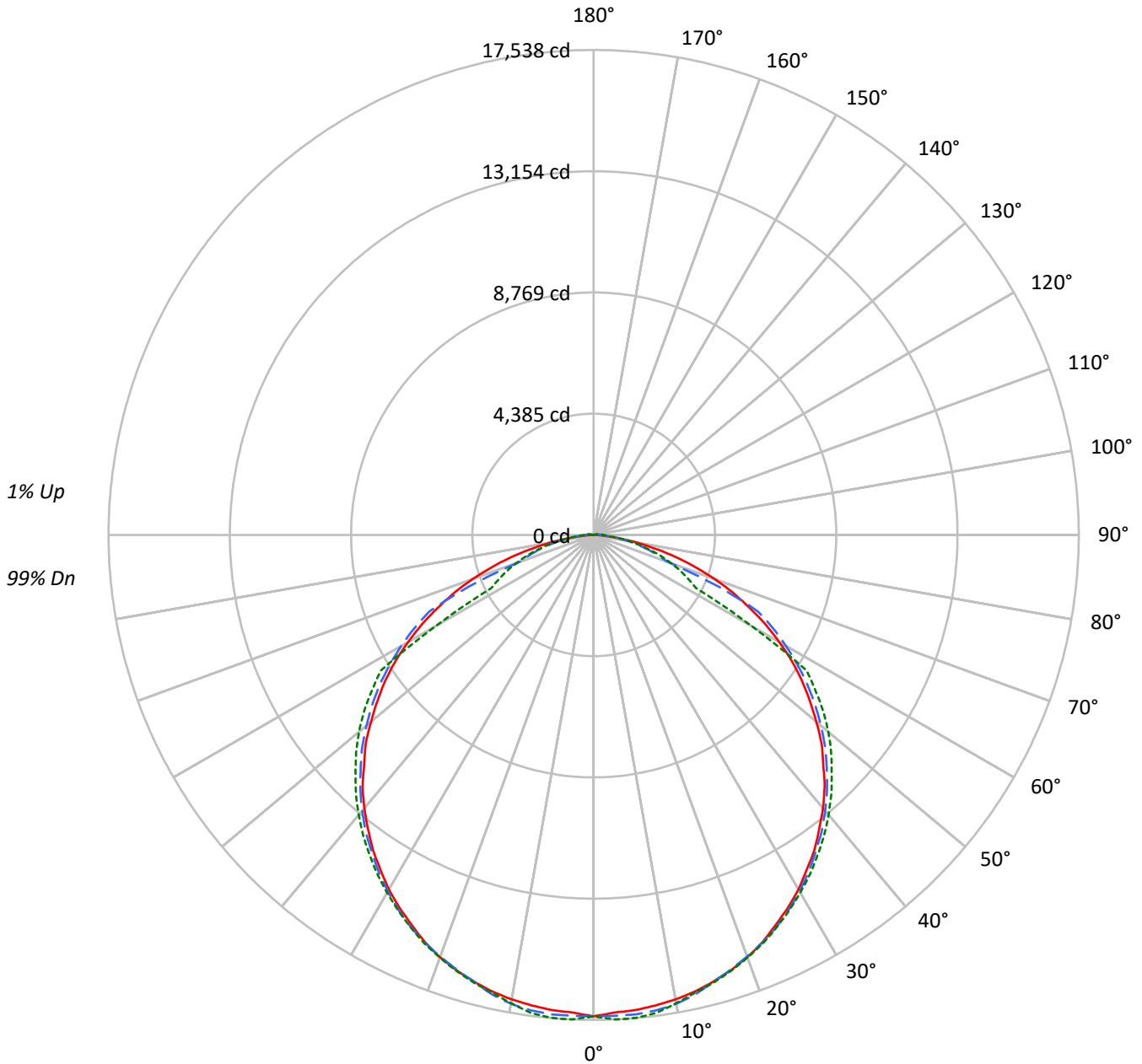
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48880.0 lumens
Efficiency: N/A
Efficacy: 183.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular (W 1.8' x L: 3.78' x H: 0')
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	111	111	111	106	106	106	102	102	102					99															
1	109	105	100	97	106	102	99	95	98	95	92	94	91	89	90	88	86					84															
2	99	92	85	79	97	90	84	78	86	81	76	83	78	75	80	76	73					71															
3	91	81	73	66	88	79	72	66	76	70	64	73	68	63	70	66	62					60															
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53					51															
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46					44															
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	45	41					39															
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36					34															
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32					30															
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29					27															
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26					25															

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	27533	27533	27533
5°	27381	27629	27837
10°	27389	27649	27615
15°	27384	27379	27439
20°	27347	27305	27372
25°	27160	27298	27320
30°	27034	27173	27280
35°	26859	27006	27260
40°	26627	26879	27277
45°	26243	26639	27220
50°	25847	26374	27245
55°	25353	26010	26945
60°	24504	25373	20977
65°	23183	24532	14118
70°	21443	13023	13702
75°	18703	12375	13085
80°	14383	11352	11992
85°	7260	11473	11749



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1654.0	3.4
10°-20°	4735.8	9.7
20°-30°	7206.0	14.7
30°-40°	8761.5	17.9
40°-50°	9212.3	18.8
50°-60°	8411.9	17.2
60°-70°	5392.4	11.0
70°-80°	2547.3	5.2
80°-90°	706.3	1.4
90°-100°	187.1	0.4
100°-110°	51.2	0.1
110°-120°	14.2	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	13595.8	27.8
0°-40°	22357.3	45.7
0°-60°	39981.4	81.8
0°-90°	48627.5	99.5
90°-120°	252.5	0.5
90°-150°	252.5	0.5
90°-180°	252.0	0.5
0°-180°	48880.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	17410	17410	17410	17410	17410	
5°	17248	17315	17404	17498	17535	###
15°	16725	16851	16722	16747	16759	4722
25°	15565	15589	15644	15668	15656	7182
35°	13912	13830	13988	14159	14120	8694
45°	11734	11712	11911	12192	12171	9069
55°	9195	9125	9433	9748	9773	8200
65°	6195	6195	6556	3760	3773	6142
75°	3061	3119	2025	2132	2141	3227
85°	400	507	632	684	648	591
90°	0	171	281	333	327	18
95°	9	89	202	272	272	5
105°	15	34	49	49	46	15
115°	15	21	30	21	3	11
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CATALOG NUMBER: OHBL-48HE-NL-UNV-L735-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	17409.8	17409.8	17409.8	17409.8	17409.8
2.5°	17287.5	17345.8	17409.8	17492.3	17537.9
5°	17247.8	17315.0	17403.7	17498.4	17535.0
7.5°	17162.4	17256.8	17342.5	17409.8	17431.1
10°	17055.3	17168.5	17217.4	17211.2	17196.0
12.5°	16911.7	17031.1	17015.9	16945.4	16957.6
15°	16725.4	16850.6	16722.5	16746.8	16759.1
17.5°	16505.5	16627.7	16478.0	16526.8	16530.1
20°	16249.0	16340.5	16224.4	16264.2	16264.2
22.5°	15940.5	16004.5	15955.7	15983.2	15989.3
25°	15564.6	15588.9	15643.9	15668.5	15656.2
27.5°	15204.3	15173.6	15280.7	15338.6	15307.8
30°	14803.9	14755.1	14880.3	14975.0	14938.5
32.5°	14345.6	14315.2	14458.8	14571.7	14550.4
35°	13911.9	13829.5	13988.3	14159.3	14119.6
37.5°	13398.6	13349.8	13530.0	13710.4	13689.1
40°	12897.7	12815.2	13019.9	13233.7	13212.4
42.5°	12360.1	12262.1	12485.3	12742.1	12717.5
45°	11733.6	11712.3	11910.9	12191.9	12170.6
47.5°	11178.0	11070.9	11348.8	11620.8	11645.3
50°	10505.6	10466.1	10719.7	11049.6	11073.8
52.5°	9849.0	9821.5	10087.1	10420.2	10462.9
55°	9195.1	9124.9	9433.4	9748.1	9772.7
57.5°	8495.8	8422.4	8737.1	9079.3	9131.0
60°	7747.1	7676.9	8022.0	8339.9	8632.2
62.5°	6998.7	6949.8	7310.4	5178.1	4173.2
65°	6195.3	6195.3	6555.6	3760.5	3772.8
67.5°	5443.9	5395.1	4888.0	3378.5	3378.5
70°	4637.3	4655.7	2816.4	2960.3	2963.2
72.5°	3827.8	3895.0	2431.9	2547.6	2553.8
75°	3060.9	3119.1	2025.3	2132.4	2141.4
77.5°	2248.5	1729.0	1628.1	1710.9	1713.8
80°	1579.3	1090.6	1246.5	1325.7	1316.7
82.5°	922.4	763.6	913.4	971.6	968.3
85°	400.1	507.1	632.3	684.4	647.5
87.5°	128.1	314.7	393.9	424.7	421.4
90°	0.0	171.1	281.1	332.8	327.0
92.5°	0.0	134.2	244.5	305.6	308.6
95°	9.1	88.6	201.8	272.0	272.0
97.5°	6.1	64.0	143.6	213.8	219.9
100°	6.1	51.7	94.8	152.7	155.9
102.5°	15.2	42.7	57.9	97.7	100.9
105°	15.2	33.6	48.8	48.8	45.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	18.4	24.6	33.6	24.6	2.9
115°	15.2	21.3	30.4	21.3	2.9
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	15.2	30.4	42.7	27.5	9.1
110°	18.4	27.5	36.5	24.6	2.9



(END OF REPORT)