

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: P830511

Luminaire Tested: **OHBL-48HE-W-UNV-L730-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830511
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-48HE-W-UNV-L730-CD
Description: 48000 LUMEN OHBL HE LED LUMINAIRE WITH 70CRI, 3000K LEDS AND WIDE LENS
Light Source: -
Ballast/Driver: -

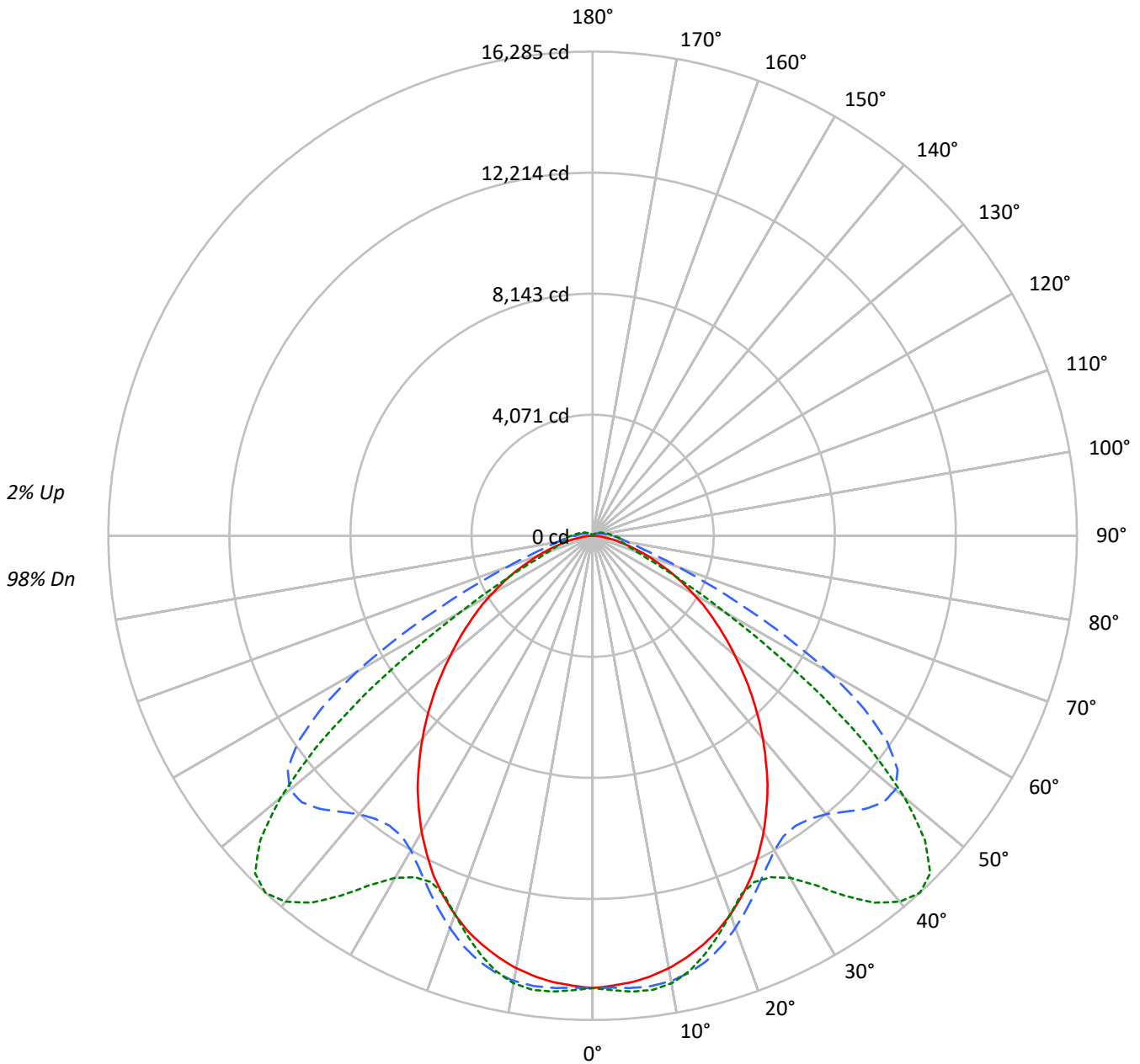
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45547.0 lumens
Efficiency: N/A
Efficacy: 171.2 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62
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 (Ain): 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				20				20
RC	80				70				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	105	105	105	100	100	100	100	100	100	98
1	109	104	100	96	106	102	98	95	97	94	91	93	90	88	89	87	85	85	85	85	83
2	99	91	85	79	96	89	83	78	85	80	76	82	77	74	78	75	72	72	72	72	70
3	90	80	72	66	88	78	71	65	75	69	64	72	67	62	69	65	61	61	61	61	59
4	83	71	62	56	80	69	61	55	67	60	54	64	58	53	62	57	52	52	52	52	50
5	76	63	54	48	74	62	54	47	60	52	47	57	51	46	55	50	45	45	45	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	50	44	40	40	40	40	38
7	65	51	43	36	63	50	42	36	49	41	36	47	40	35	45	40	35	35	35	35	33
8	60	47	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	31	31	31	29
9	56	43	34	29	55	42	34	29	41	34	28	39	33	28	38	32	28	28	28	28	26
10	52	39	31	26	51	39	31	26	38	31	26	36	30	26	35	30	25	25	25	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	24057	24057	24057
5°	23833	24034	24229
10°	23534	24009	24155
15°	23075	23622	23280
20°	22446	22821	22041
25°	21604	21848	21498
30°	20485	21128	23018
35°	19208	21531	26789
40°	17726	23333	30781
45°	16177	26485	32858
50°	14561	29310	30332
55°	13042	29301	22953
60°	11496	24817	13866
65°	9863	17161	8269
70°	8013	11116	5843
75°	6096	7988	5246
80°	4376	7047	5605
85°	2969	7809	7898



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1453.7	3.2
10°-20°	4116.3	9.0
20°-30°	6023.6	13.2
30°-40°	7822.9	17.2
40°-50°	9552.7	21.0
50°-60°	8412.6	18.5
60°-70°	4383.9	9.6
70°-80°	1880.0	4.1
80°-90°	902.8	2.0
90°-100°	424.2	0.9
100°-110°	263.6	0.6
110°-120°	155.9	0.3
120°-130°	84.7	0.2
130°-140°	42.5	0.1
140°-150°	20.5	0.0
150°-160°	7.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	11593.6	25.5
0°-40°	19416.4	42.6
0°-60°	37381.8	82.1
0°-90°	44548.4	97.8
90°-120°	843.7	1.9
90°-150°	991.4	2.2
90°-180°	999.0	2.2
0°-180°	45547.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	15212	15212	15212	15212	15212	
5°	15071	15186	15268	15402	15386	###
15°	14260	14660	14802	14690	14572	4015
25°	12636	13312	13085	12839	12852	5799
35°	10256	11339	11907	13886	14775	6392
45°	7552	9501	12987	15724	16052	5823
55°	5028	8323	12094	10604	9426	4513
65°	2885	5766	5537	3078	2648	2854
75°	1162	2698	1779	1218	1155	1267
85°	246	962	906	886	896	274
90°	3	348	597	683	699	17
95°	7	204	476	558	574	5
105°	13	115	308	371	377	14
115°	20	66	190	233	240	20
125°	23	33	112	144	148	20
135°	20	20	52	89	92	15
145°	26	20	23	43	49	15
155°	26	26	20	20	20	8
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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CATALOG NUMBER: OHBL-48HE-W-UNV-L730-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	15211.9	15211.9	15211.9	15211.9	15211.9
2.5°	15146.2	15211.9	15215.1	15307.0	15297.2
5°	15070.7	15185.6	15267.7	15402.2	15385.8
7.5°	14946.0	15126.5	15270.9	15418.6	15405.5
10°	14768.8	15014.9	15205.3	15326.7	15287.4
12.5°	14539.1	14864.0	15051.1	15077.3	15001.8
15°	14260.1	14660.5	14801.6	14690.0	14571.9
17.5°	13945.0	14414.4	14463.6	14220.7	14073.0
20°	13551.2	14086.2	14036.9	13702.2	13538.1
22.5°	13114.7	13725.1	13567.6	13216.4	13058.9
25°	12635.5	13311.6	13085.2	12839.0	12852.1
27.5°	12074.3	12842.3	12622.4	12734.0	12944.0
30°	11503.3	12350.0	12215.4	12865.3	13278.8
32.5°	10876.4	11844.6	11966.0	13249.3	13925.3
35°	10256.1	11339.2	11906.9	13886.0	14775.4
37.5°	9570.2	10827.2	12002.1	14621.1	15553.2
40°	8903.9	10328.3	12218.7	15280.8	16068.5
42.5°	8224.6	9882.0	12583.0	15671.3	16285.1
45°	7551.8	9501.3	12986.7	15723.9	16052.0
47.5°	6879.0	9179.6	13265.7	15307.0	15156.1
50°	6229.2	8894.1	13285.4	14306.0	13689.0
52.5°	5622.0	8631.5	12924.3	12711.0	11752.7
55°	5028.0	8323.0	12094.0	10604.0	9425.8
57.5°	4486.4	7896.4	10814.0	8339.5	7052.9
60°	3912.1	7318.8	9159.9	6101.2	5087.0
62.5°	3383.7	6600.0	7305.6	4246.9	3656.1
65°	2884.8	5766.4	5536.7	3078.5	2648.5
67.5°	2356.4	4903.2	4086.0	2244.9	1969.2
70°	1942.9	4102.4	3042.4	1746.0	1585.2
72.5°	1519.5	3341.0	2274.4	1417.8	1329.2
75°	1161.8	2697.8	1778.8	1217.6	1155.2
77.5°	856.6	2133.3	1430.9	1076.5	1017.4
80°	600.6	1680.4	1197.9	961.6	938.6
82.5°	403.7	1299.7	1020.7	915.7	918.9
85°	246.1	961.6	905.8	886.1	896.0
87.5°	118.2	682.6	777.8	807.4	817.2
90°	3.3	347.9	597.3	682.6	699.1
92.5°	0.0	265.8	525.1	610.4	626.9
95°	6.6	203.5	475.9	557.9	574.3
97.5°	6.6	167.4	426.7	512.0	521.8
100°	9.8	144.4	380.7	462.8	472.6
102.5°	9.8	128.0	341.3	413.5	420.1
105°	13.1	114.9	308.5	370.9	377.4



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CATALOG NUMBER: OHBL-48HE-W-UNV-L730-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	19.7	78.8	216.6	262.6	269.1
115°	19.7	65.6	190.4	233.0	239.6
117.5°	23.0	59.1	167.4	206.8	210.0
120°	23.0	49.2	144.4	183.8	187.1
122.5°	23.0	39.4	128.0	164.1	167.4
125°	23.0	32.8	111.6	144.4	147.7
127.5°	19.7	23.0	95.2	128.0	131.3
130°	19.7	19.7	78.8	111.6	118.2
132.5°	19.7	19.7	65.6	98.5	105.0
135°	19.7	19.7	52.5	88.6	91.9
137.5°	19.7	19.7	42.7	75.5	82.0
140°	19.7	19.7	32.8	65.6	68.9
142.5°	23.0	19.7	29.5	55.8	59.1
145°	26.3	19.7	23.0	42.7	49.2
147.5°	26.3	23.0	23.0	36.1	39.4
150°	26.3	26.3	19.7	26.3	32.8
152.5°	26.3	26.3	19.7	19.7	26.3
155°	26.3	26.3	19.7	19.7	19.7
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°	16.4	101.7	275.7	331.5	338.0
110°	16.4	88.6	242.9	295.4	301.9



(END OF REPORT)