

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: P830547

Luminaire Tested: **OHBL-48SE-MFL-UNV-L730-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P830547  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-48SE-MFL-UNV-L730-CD  
Description: 48000 LUMEN OHBL SE LED LUMINAIRE WITH 70CRI, 3000K LEDS AND MEDIUM FROSTED LENS  
Light Source: -  
Ballast/Driver: -

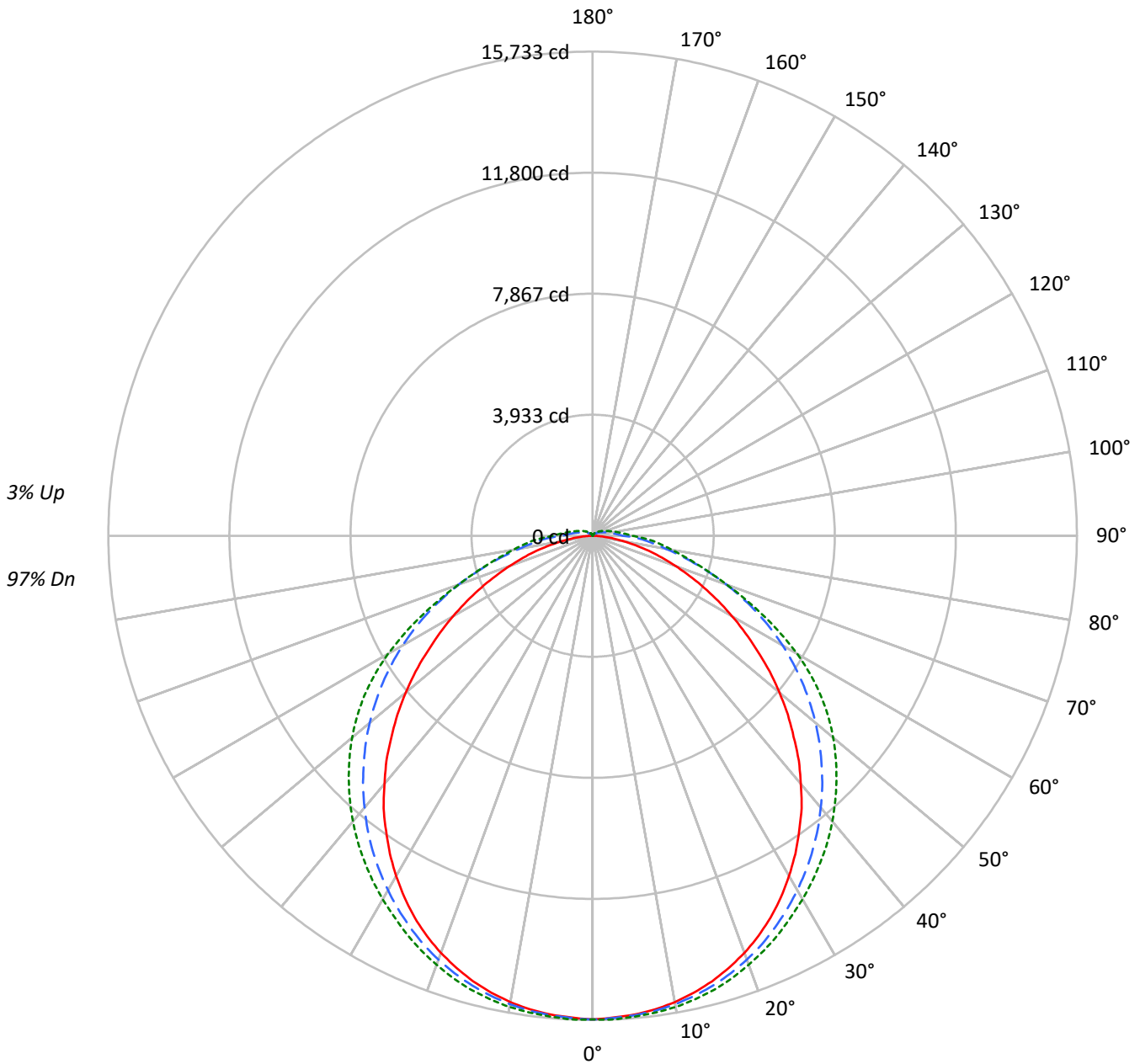
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 47040.0 lumens  
Efficiency: N/A  
Efficacy: 162.9 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 288.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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					
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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	99	97					
1	107	102	98	94	104	100	96	92	95	91	88	90	88	85	86	84	82	82	82	82	80					
2	98	89	82	76	95	87	80	75	83	77	73	79	74	71	75	72	68	68	68	68	66					
3	89	78	70	63	86	76	69	62	73	66	61	70	64	59	67	62	58	58	58	58	56					
4	81	69	60	53	79	68	59	53	65	57	52	62	56	51	59	54	50	50	50	50	47					
5	75	62	53	46	72	60	52	46	58	50	45	56	49	44	53	48	43	43	43	43	41					
6	69	56	47	40	67	54	46	40	52	45	39	50	44	39	48	43	38	38	38	38	36					
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	44	38	34	34	34	34	32					
8	60	46	37	31	58	45	37	31	43	36	31	42	35	31	41	35	30	30	30	30	28					
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	37	32	27	27	27	27	25					
10	52	39	31	26	51	38	31	26	37	30	25	36	29	25	35	29	25	25	25	25	23					

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	26845	26845	26845
5°	26674	26579	26655
10°	26487	26333	26499
15°	26191	26041	26299
20°	25798	25686	26013
25°	25273	25246	25724
30°	24547	24769	25433
35°	23668	24264	25178
40°	22612	23680	24925
45°	21367	23045	24605
50°	20005	22403	24220
55°	18330	21619	23584
60°	16615	20696	22344
65°	14743	19520	20327
70°	12713	18025	18143
75°	10659	16295	16636
80°	8082	15010	16392
85°	5113	15462	18079



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1489.3	3.2
10°-20°	4272.7	9.1
20°-30°	6461.6	13.7
30°-40°	7757.3	16.5
40°-50°	8012.0	17.0
50°-60°	7208.3	15.3
60°-70°	5429.9	11.5
70°-80°	3278.7	7.0
80°-90°	1603.6	3.4
90°-100°	675.0	1.4
100°-110°	385.3	0.8
110°-120°	226.2	0.5
120°-130°	127.9	0.3
130°-140°	67.3	0.1
140°-150°	32.8	0.1
150°-160°	12.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	12223.6	26.0
0°-40°	19980.9	42.5
0°-60°	35201.1	74.8
0°-90°	45513.3	96.8
90°-120°	1286.4	2.7
90°-150°	1514.5	3.2
90°-180°	1527.0	3.2
0°-180°	47040.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	15718	15718	15718	15718	15718	
5°	15618	15660	15641	15702	15683	###
15°	14987	15060	15129	15256	15271	4225
25°	13686	13836	14033	14252	14287	6295
35°	11702	11975	12467	12844	12921	7315
45°	9236	9701	10513	11086	11205	7130
55°	6543	7220	8316	8944	9051	5867
65°	3993	4808	5885	6178	6108	3967
75°	1881	2700	3408	3497	3462	2007
85°	392	1035	1708	1943	1977	453
90°	0	404	977	1231	1281	25
95°	19	273	731	931	966	16
105°	27	158	423	554	577	27
115°	31	88	262	350	365	31
125°	31	42	158	227	238	28
135°	27	35	81	138	154	21
145°	38	35	38	69	81	23
155°	38	42	38	35	38	12
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-48SE-MFL-UNV-L730-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	15717.6	15717.6	15717.6	15717.6	15717.6
2.5°	15671.4	15709.9	15686.8	15736.8	15732.9
5°	15617.5	15659.9	15640.6	15702.2	15682.9
7.5°	15525.2	15571.4	15567.5	15636.8	15629.1
10°	15390.6	15440.6	15456.0	15548.3	15548.3
12.5°	15206.0	15271.3	15309.8	15421.4	15425.2
15°	14986.7	15059.8	15129.0	15256.0	15271.3
17.5°	14721.3	14813.6	14909.8	15055.9	15075.2
20°	14421.2	14525.1	14655.9	14809.7	14832.8
22.5°	14075.0	14198.1	14367.4	14548.2	14575.1
25°	13686.5	13836.5	14032.7	14252.0	14286.6
27.5°	13244.1	13417.2	13682.7	13928.9	13959.6
30°	12763.3	12967.2	13298.0	13590.3	13640.4
32.5°	12255.5	12490.2	12897.9	13224.9	13294.1
35°	11701.6	11974.7	12467.1	12844.1	12921.0
37.5°	11155.4	11455.4	12013.2	12444.0	12536.4
40°	10516.8	10890.0	11528.5	12005.5	12117.1
42.5°	9916.8	10320.7	11043.8	11563.1	11670.8
45°	9235.9	9701.3	10513.0	11086.2	11205.4
47.5°	8597.3	9101.3	10001.4	10593.8	10716.9
50°	7924.2	8478.1	9455.2	10074.5	10201.4
52.5°	7251.0	7847.2	8889.7	9532.1	9651.3
55°	6543.2	7220.2	8316.5	8943.5	9051.3
57.5°	5885.4	6600.9	7728.0	8324.2	8389.6
60°	5235.3	5977.8	7127.9	7651.1	7674.1
62.5°	4600.6	5381.5	6512.4	6927.9	6897.1
65°	3992.9	4808.4	5885.4	6177.8	6108.5
67.5°	3408.2	4250.6	5243.0	5431.5	5339.2
70°	2854.2	3708.2	4619.9	4716.0	4631.4
72.5°	2365.7	3192.7	3989.0	4069.8	4008.2
75°	1881.0	2700.4	3408.2	3496.6	3462.0
77.5°	1427.1	2223.4	2873.5	2988.9	2996.6
80°	1027.1	1788.7	2408.0	2588.8	2611.9
82.5°	677.0	1388.7	2019.5	2250.3	2284.9
85°	392.4	1034.8	1707.9	1942.6	1977.2
87.5°	169.3	746.3	1373.3	1584.8	1627.1
90°	0.0	403.9	977.1	1230.9	1280.9
92.5°	11.5	334.7	838.6	1069.4	1111.7
95°	19.2	273.1	730.9	930.9	965.5
97.5°	23.1	230.8	634.7	811.7	846.3
100°	23.1	200.0	550.1	711.6	742.4
102.5°	23.1	176.9	480.8	623.2	650.1
105°	26.9	157.7	423.1	553.9	577.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	30.8	103.9	292.3	392.4	407.7
115°	30.8	88.5	261.6	350.0	365.4
117.5°	34.6	76.9	230.8	315.4	327.0
120°	34.6	65.4	203.9	280.8	296.2
122.5°	34.6	53.9	180.8	253.9	265.4
125°	30.8	42.3	157.7	227.0	238.5
127.5°	26.9	34.6	134.6	203.9	215.4
130°	26.9	30.8	115.4	180.8	192.3
132.5°	26.9	34.6	96.2	157.7	173.1
135°	26.9	34.6	80.8	138.5	153.9
137.5°	26.9	34.6	65.4	119.2	134.6
140°	30.8	34.6	53.9	100.0	115.4
142.5°	34.6	34.6	42.3	84.6	96.2
145°	38.5	34.6	38.5	69.2	80.8
147.5°	38.5	38.5	38.5	53.9	65.4
150°	38.5	42.3	38.5	42.3	53.9
152.5°	38.5	42.3	38.5	34.6	42.3
155°	38.5	42.3	38.5	34.6	38.5
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°	26.9	138.5	373.1	492.4	511.6
110°	26.9	123.1	330.8	438.5	457.8



(END OF REPORT)