

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: P828412

Luminaire Tested: **OHBL-48HE-MCL-UNV-L940-CD-UPL24**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P828412  
REPORT IS A COMBINATION OF REPORTS P826252 AND G3-2310-221-6  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-48HE-MCL-UNV-L940-CD-UPL24  
Description:  
Light Source: -  
Ballast/Driver: -

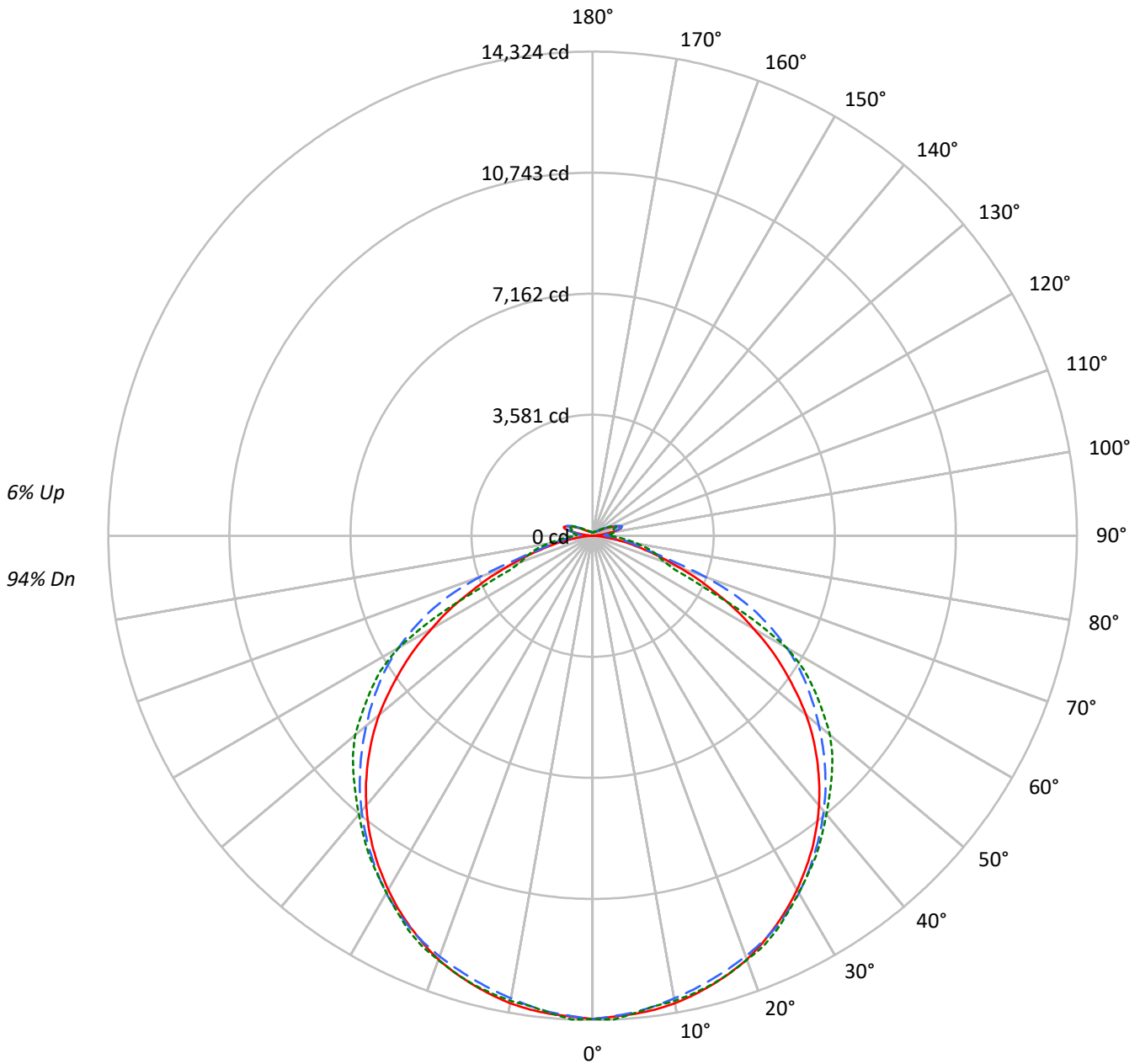
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 42510.1 lumens  
Efficiency: N/A  
Efficacy: 150.0 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 283.4  
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									
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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	94																			
1	108	103	99	95	104	100	97	93	95	92	89	90	88	85	86	84	82	79																			
2	98	90	84	78	95	88	82	77	83	78	74	79	75	71	75	72	69	67																			
3	90	79	71	65	87	77	70	64	73	67	62	70	65	60	67	62	59	56																			
4	82	70	62	55	79	69	61	54	65	58	53	62	56	52	60	55	50	48																			
5	75	63	54	47	73	61	53	47	59	51	46	56	50	45	54	48	44	42																			
6	70	56	48	41	67	55	47	41	53	46	40	51	44	39	48	43	38	36																			
7	64	51	43	36	62	50	42	36	48	41	35	46	40	35	44	38	34	32																			
8	60	47	38	32	58	46	38	32	44	37	32	42	36	31	41	35	31	29																			
9	56	43	35	29	54	42	34	29	40	33	28	39	33	28	37	32	28	26																			
10	52	39	32	26	51	39	31	26	37	30	26	36	30	25	35	29	25	23																			

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

	0°	45°	90°
0°	22608	22608	22608
5°	22365	22280	22421
10°	22190	21942	22266
15°	21954	21690	22212
20°	21716	21531	22114
25°	21354	21371	22022
30°	20964	21119	21714
35°	20515	20718	21601
40°	19957	20304	21415
45°	19222	19826	21422
50°	18265	19281	21424
55°	16827	18745	20825
60°	14993	17960	19486
65°	12661	16504	12544
70°	9981	12884	9293
75°	7246	7648	9740
80°	4777	6360	9819
85°	2423	5827	10324



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1347.9	3.2
10°-20°	3865.3	9.1
20°-30°	5903.5	13.9
30°-40°	7162.9	16.8
40°-50°	7507.4	17.7
50°-60°	6802.9	16.0
60°-70°	4561.1	10.7
70°-80°	2048.1	4.8
80°-90°	748.6	1.8
90°-100°	425.3	1.0
100°-110°	805.4	1.9
110°-120°	653.2	1.5
120°-130°	317.2	0.7
130°-140°	164.2	0.4
140°-150°	97.0	0.2
150°-160°	58.7	0.1
160°-170°	31.7	0.1
170°-180°	9.7	0.0
0°-30°	11116.7	26.2
0°-40°	18279.6	43.0
0°-60°	32589.9	76.7
0°-90°	39947.6	94.0
90°-120°	1883.9	4.4
90°-150°	2462.3	5.8
90°-180°	2562.0	6.0
0°-180°	42510.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	14296	14296	14296	14296	14296	
5°	14202	14252	14153	14196	14178	###
15°	13742	13688	13591	13711	13727	3880
25°	12766	12710	12799	12917	12880	5884
35°	11315	11342	11458	11580	11534	7072
45°	9390	9544	9721	9969	10000	7234
55°	6910	7243	7737	8047	8028	6168
65°	4056	4690	5325	4494	3669	4041
75°	1596	2315	1703	1742	1856	1744
85°	275	527	676	816	856	335
90°	6	205	390	492	519	20
95°	48	206	389	490	524	146
105°	880	910	852	665	629	837
115°	618	632	668	682	681	622
125°	308	326	353	358	358	290
135°	192	198	206	218	222	152
145°	145	150	153	156	159	93
155°	122	125	127	128	126	57
165°	110	111	112	112	112	31
175°	101	102	100	99	99	10
180°	99	99	99	99	99	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	14295.6	14295.6	14295.6	14295.6	14295.6
2.5°	14237.7	14297.7	14223.2	14303.8	14324.5
5°	14202.5	14252.2	14152.9	14196.4	14177.8
7.5°	14138.5	14155.0	14037.2	14072.3	14035.1
10°	14043.4	14035.1	13896.6	13964.8	13973.1
12.5°	13902.9	13878.0	13754.0	13857.4	13859.5
15°	13741.6	13687.8	13590.7	13710.6	13727.1
17.5°	13555.6	13485.3	13421.2	13576.2	13551.4
20°	13338.5	13255.8	13243.5	13412.9	13350.9
22.5°	13069.8	13005.8	13034.7	13195.9	13156.6
25°	12766.0	12710.1	12799.0	12916.9	12879.7
27.5°	12445.6	12412.5	12513.8	12604.8	12532.4
30°	12094.1	12075.5	12210.0	12284.4	12193.4
32.5°	11711.8	11718.0	11846.2	11947.4	11862.7
35°	11315.0	11341.8	11457.5	11579.5	11534.1
37.5°	10878.7	10938.7	11054.5	11193.0	11145.4
40°	10417.9	10504.6	10632.8	10800.2	10756.9
42.5°	9919.7	10029.2	10194.6	10380.6	10376.5
45°	9390.5	9543.5	9721.3	9969.3	10000.3
47.5°	8840.7	9012.2	9237.6	9568.2	9615.8
50°	8243.3	8458.3	8739.4	9136.3	9165.2
52.5°	7577.7	7871.3	8243.3	8623.7	8588.5
55°	6910.1	7242.9	7736.9	8047.0	8028.4
57.5°	6244.5	6618.6	7218.0	7439.2	7437.1
60°	5500.4	5973.7	6629.0	6796.4	6631.0
62.5°	4812.0	5320.6	6000.6	5878.7	5312.3
65°	4055.5	4690.0	5324.7	4493.7	3669.0
67.5°	3383.7	4045.2	4522.7	3077.8	2635.5
70°	2707.8	3437.4	3526.4	2284.0	2253.1
72.5°	2108.4	2885.6	2432.9	1955.4	2054.6
75°	1595.8	2315.1	1703.2	1742.5	1856.2
77.5°	1163.8	1777.7	1324.9	1527.5	1620.6
80°	800.0	1258.8	1081.1	1283.6	1347.7
82.5°	502.3	830.9	866.1	1033.5	1099.7
85°	274.9	527.1	675.9	816.5	855.7
87.5°	113.7	318.3	516.8	630.4	663.5
90°	6.4	205.3	390.2	492.1	518.9
92.5°	16.9	173.5	347.9	442.1	467.9
95°	48.2	206.1	389.3	489.7	524.0
97.5°	238.1	339.9	472.6	571.4	608.4
100°	486.1	581.8	578.7	637.3	651.3
102.5°	749.9	795.2	677.9	651.1	650.4
105°	880.3	910.0	851.6	665.1	628.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	716.9	741.9	769.3	767.9	744.2
115°	618.2	632.5	667.6	682.5	681.4
117.5°	531.2	536.3	570.7	582.3	587.3
120°	442.5	454.2	488.9	494.9	491.8
122.5°	373.9	384.3	412.3	420.9	417.7
125°	308.3	326.0	352.8	358.1	357.6
127.5°	265.2	276.5	301.7	308.8	310.0
130°	233.0	242.1	261.1	270.2	271.1
132.5°	210.8	218.9	231.2	242.9	242.1
135°	192.5	198.1	206.2	218.2	222.1
137.5°	179.8	182.4	187.6	200.6	202.6
140°	166.8	170.2	172.5	182.5	185.5
142.5°	153.4	158.9	160.3	168.2	170.3
145°	144.7	150.2	152.8	155.8	158.7
147.5°	138.9	142.4	144.2	145.9	148.0
150°	132.9	134.6	137.2	138.1	138.9
152.5°	126.8	128.5	131.1	132.0	132.0
155°	121.5	125.4	127.1	128.0	125.9
157.5°	117.2	121.0	122.8	123.6	123.6
160°	113.7	116.7	118.4	119.3	119.3
162.5°	112.3	113.2	114.1	114.9	114.9
165°	109.7	110.6	111.5	111.5	111.5
167.5°	107.1	109.1	108.0	108.9	108.9
170°	104.5	105.4	105.4	104.2	104.2
172.5°	102.8	103.6	103.6	101.6	102.4
175°	101.0	101.9	99.8	98.6	98.6
177.5°	103.0	101.0	98.9	96.9	94.8
180°	98.9	98.9	98.9	98.9	98.9



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	885.9	918.3	912.5	755.8	653.8
110°	820.1	848.6	861.2	812.8	731.7



(END OF REPORT)