

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: P828415

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

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P828415  
REPORT IS A COMBINATION OF REPORTS P826255 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-NL-UNV-L940-CD-UPL24  
Description:  
Light Source: -  
Ballast/Driver: -

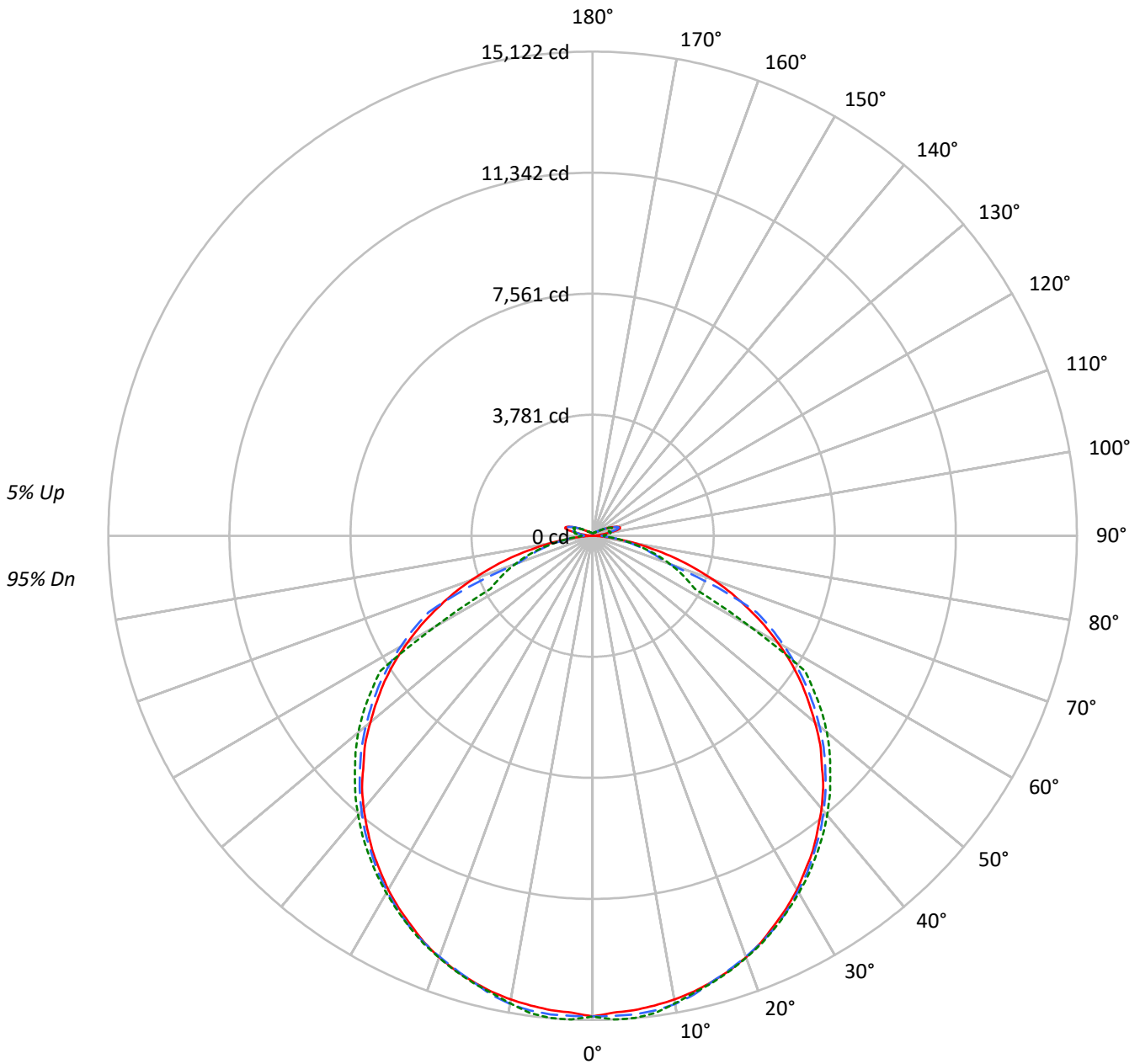
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 44251.5 lumens  
Efficiency: N/A  
Efficacy: 156.1 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.1')  
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					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	114	114	114	114	108	108	108	102	102	102	97	97	97	95				
1	108	104	99	96	105	101	97	94	96	93	90	91	88	86	86	84	83	80				
2	99	91	84	78	95	88	82	77	84	79	75	80	76	72	76	73	70	67				
3	90	80	72	65	87	78	70	65	74	68	63	71	65	61	67	63	59	57				
4	82	71	62	56	80	69	61	55	66	59	54	63	57	52	60	55	51	49				
5	76	63	54	48	73	62	53	47	59	52	46	56	50	45	54	49	44	42				
6	70	57	48	42	68	56	47	41	53	46	40	51	45	40	49	43	39	37				
7	65	51	43	37	63	50	42	36	48	41	36	46	40	35	45	39	35	33				
8	60	47	38	33	58	46	38	32	44	37	32	43	36	31	41	35	31	29				
9	56	43	35	29	55	42	34	29	41	34	29	39	33	28	38	32	28	26				
10	53	40	32	27	51	39	31	26	38	31	26	36	30	26	35	29	25	24				

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

	0°	45°	90°
0°	23741	23741	23741
5°	23495	23703	23947
10°	23387	23599	23700
15°	23266	23247	23493
20°	23112	23057	23377
25°	22827	22918	23270
30°	22586	22672	23168
35°	22292	22378	23077
40°	21937	22101	23009
45°	21437	21711	22866
50°	20903	21271	22775
55°	20254	20712	22388
60°	19274	19881	17296
65°	17862	18813	11520
70°	16041	9686	11014
75°	13358	8773	10269
80°	9430	7366	8991
85°	3829	5950	7780



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1426.2	3.2
10°-20°	4083.5	9.2
20°-30°	6213.4	14.0
30°-40°	7554.6	17.1
40°-50°	7943.3	18.0
50°-60°	7253.2	16.4
60°-70°	4649.7	10.5
70°-80°	2196.4	5.0
80°-90°	614.4	1.4
90°-100°	362.9	0.8
100°-110°	744.0	1.7
110°-120°	612.6	1.4
120°-130°	288.0	0.7
130°-140°	144.1	0.3
140°-150°	83.5	0.2
150°-160°	48.7	0.1
160°-170°	25.2	0.1
170°-180°	7.7	0.0
0°-30°	11723.1	26.5
0°-40°	19277.7	43.6
0°-60°	34474.3	77.9
0°-90°	41934.9	94.8
90°-120°	1719.4	3.9
90°-150°	2235.1	5.1
90°-180°	2317.0	5.2
0°-180°	44251.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	15012	15012	15012	15012	15012	
5°	14872	14930	15006	15088	15120	###
15°	14422	14530	14419	14440	14451	4071
25°	13421	13442	13489	13510	13500	6193
35°	11996	11924	12062	12209	12175	7497
45°	10118	10099	10270	10513	10494	7820
55°	7929	7868	8134	8405	8427	7071
65°	5342	5342	5653	3242	3253	5296
75°	2639	2690	1746	1839	1846	2782
85°	345	437	545	590	558	510
90°	4	177	283	341	342	18
95°	54	173	324	433	459	147
105°	885	892	776	565	520	841
115°	615	626	634	624	603	616
125°	294	310	316	315	312	276
135°	174	177	184	185	187	137
145°	126	130	132	133	134	80
155°	101	103	104	105	105	47
165°	87	88	89	89	89	25
175°	78	79	79	80	80	8
180°	78	78	78	78	78	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	15011.7	15011.7	15011.7	15011.7	15011.7
2.5°	14906.4	14956.5	15011.7	15082.9	15122.2
5°	14872.0	14930.0	15006.4	15088.2	15119.6
7.5°	14798.4	14879.8	14953.7	15011.7	15030.2
10°	14706.1	14803.7	14845.9	14840.5	14827.4
12.5°	14582.2	14685.2	14672.0	14611.3	14621.9
15°	14421.6	14529.5	14419.1	14440.1	14450.6
17.5°	14232.0	14337.4	14208.3	14250.4	14253.2
20°	14010.8	14089.8	13989.6	14024.0	14024.0
22.5°	13744.8	13800.0	13757.9	13781.7	13786.9
25°	13420.7	13441.7	13489.1	13510.3	13499.7
27.5°	13110.1	13083.6	13175.9	13225.8	13199.3
30°	12764.8	12722.7	12830.7	12912.4	12880.8
32.5°	12369.7	12343.4	12467.2	12564.6	12546.2
35°	11995.6	11924.5	12061.5	12209.0	12174.7
37.5°	11553.1	11511.0	11666.3	11821.9	11803.5
40°	11121.2	11050.0	11226.5	11410.8	11392.4
42.5°	10657.6	10573.1	10765.5	10987.0	10965.8
45°	10117.5	10099.0	10270.2	10512.6	10494.2
47.5°	9638.3	9546.0	9785.6	10020.1	10041.3
50°	9058.6	9024.5	9243.2	9527.6	9548.5
52.5°	8492.4	8468.7	8697.7	8984.9	9021.7
55°	7928.6	7868.0	8134.1	8405.4	8426.6
57.5°	7325.6	7262.3	7533.6	7828.7	7873.3
60°	6679.9	6619.4	6917.0	7191.2	5718.7
62.5°	6034.6	5992.6	6303.5	4464.9	3598.4
65°	5342.0	5342.0	5652.6	3242.5	3253.1
67.5°	4694.0	4652.0	4214.7	2913.2	2913.2
70°	3998.6	4014.5	2428.4	2552.6	2555.1
72.5°	3300.5	3358.5	2096.9	2196.7	2202.0
75°	2639.3	2689.5	1746.4	1838.6	1846.4
77.5°	1938.8	1490.9	1403.9	1475.3	1477.8
80°	1361.7	940.4	1074.8	1143.1	1135.3
82.5°	795.4	658.4	787.5	837.7	834.9
85°	345.0	437.2	545.2	590.1	558.4
87.5°	110.4	271.4	339.7	366.2	363.3
90°	4.3	177.1	283.2	340.9	342.0
92.5°	14.8	154.8	273.4	352.2	366.0
95°	53.9	172.9	323.6	432.8	458.9
97.5°	239.2	308.2	395.9	513.8	547.8
100°	485.2	554.1	493.0	566.4	577.0
102.5°	754.8	774.1	587.2	565.9	561.7
105°	885.2	891.5	775.9	564.6	519.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	718.4	734.2	728.1	700.3	653.7
115°	614.8	626.2	634.0	624.4	603.3
117.5°	514.7	515.6	519.1	518.2	519.1
120°	426.0	435.6	443.4	439.1	433.9
122.5°	357.3	367.8	373.0	371.3	366.0
125°	293.9	309.5	315.6	314.7	312.1
127.5°	248.7	260.0	268.7	269.5	268.7
130°	216.5	223.4	232.1	233.0	233.9
132.5°	192.1	198.2	204.3	207.8	206.9
135°	173.9	177.4	183.5	185.2	186.9
137.5°	159.1	161.7	166.9	169.5	169.5
140°	146.1	149.5	153.9	155.6	156.5
142.5°	134.8	138.2	141.7	143.5	143.5
145°	126.1	129.5	132.2	133.0	133.9
147.5°	118.2	121.7	123.5	125.2	125.2
150°	112.2	113.9	116.5	117.4	118.2
152.5°	106.1	107.8	110.4	111.3	111.3
155°	100.9	102.6	104.3	105.2	105.2
157.5°	96.5	98.2	100.0	100.9	100.9
160°	93.0	93.9	95.6	96.5	96.5
162.5°	89.6	90.4	91.3	92.2	92.2
165°	86.9	87.8	88.7	88.7	88.7
167.5°	84.3	84.3	85.2	86.1	86.1
170°	81.7	82.6	82.6	83.5	83.5
172.5°	80.0	80.9	80.9	80.9	81.7
175°	78.2	79.1	79.1	80.0	80.0
177.5°	78.2	78.2	78.2	78.2	78.2
180°	78.2	78.2	78.2	78.2	78.2



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	888.7	905.3	848.0	657.6	535.6
110°	823.6	839.3	807.9	730.7	626.8



(END OF REPORT)