

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: P828340

Luminaire Tested: **OHBL-24HE-NL-UNV-L940-CD-UPL24**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P828340  
REPORT IS A COMBINATION OF REPORTS P826243 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-24HE-NL-UNV-L940-CD-UPL24  
Description:  
Light Source: -  
Ballast/Driver: -

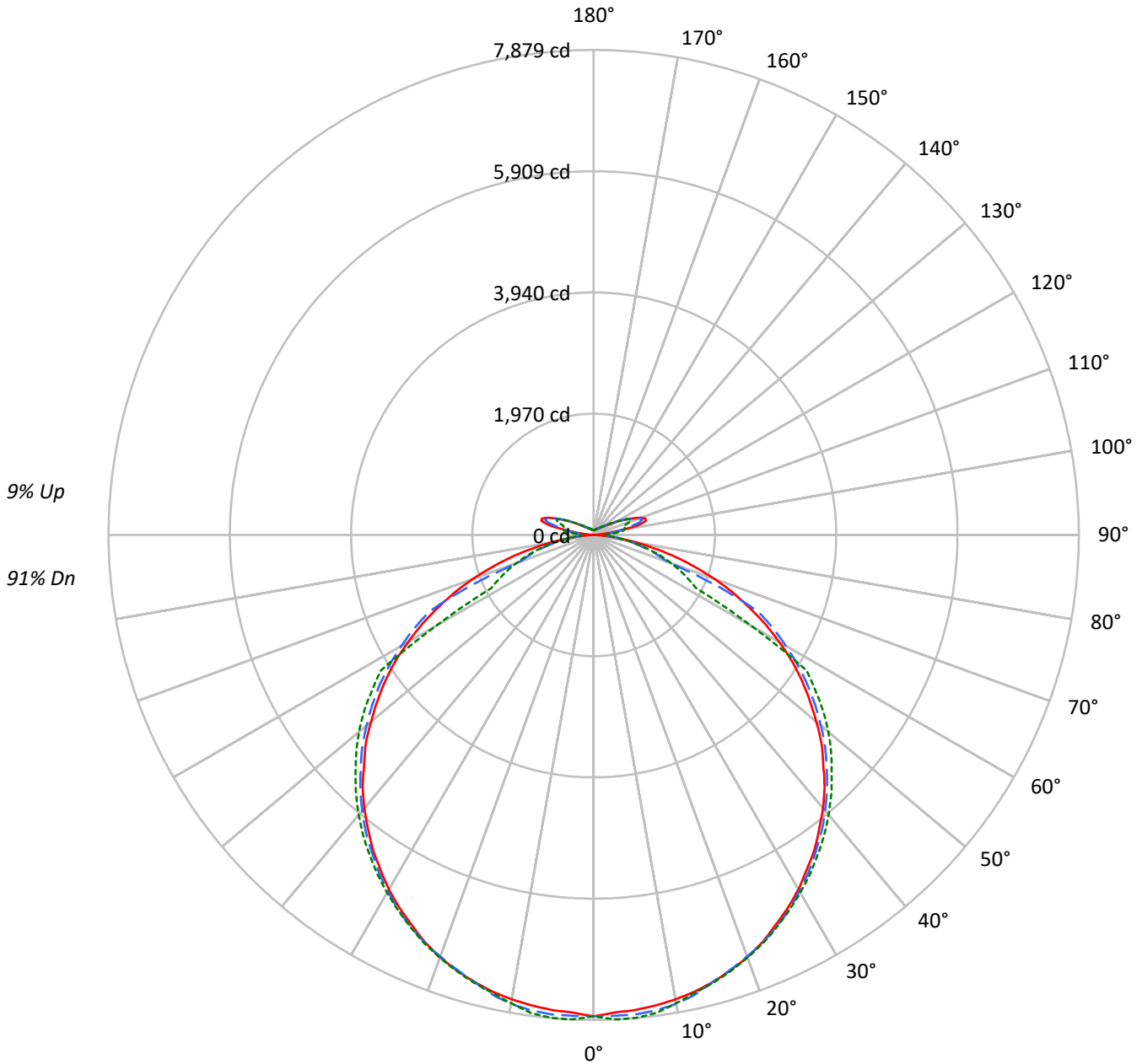
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24063.0 lumens  
Efficiency: N/A  
Efficacy: 160.0 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): 150.4  
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	117	117	117	117	113	113	113	113	106	106	106	100	100	100	94	94	94	91																			
1	107	103	99	95	104	99	96	93	94	91	88	88	86	84	83	81	80	77																			
2	98	90	83	78	94	87	81	76	82	77	73	78	74	70	73	70	67	65																			
3	89	79	71	65	86	77	70	64	72	66	61	69	63	59	65	61	57	55																			
4	82	70	61	55	79	68	60	54	64	58	52	61	55	51	58	53	49	47																			
5	75	63	54	47	72	61	53	47	58	51	45	55	49	44	52	47	43	40																			
6	69	56	47	41	67	55	47	41	52	45	40	50	43	39	47	42	38	35																			
7	64	51	42	36	62	50	42	36	47	40	35	45	39	34	43	37	33	31																			
8	60	46	38	32	58	45	37	32	43	36	31	41	35	30	39	34	30	28																			
9	56	42	34	29	54	42	34	29	40	33	28	38	32	27	36	31	27	25																			
10	52	39	31	26	50	38	31	26	37	30	25	35	29	25	34	28	24	23																			

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

	0°	45°	90°
0°	12369	12369	12369
5°	12241	12349	12476
10°	12185	12295	12348
15°	12121	12111	12240
20°	12042	12013	12179
25°	11893	11940	12123
30°	11767	11812	12071
35°	11614	11659	12023
40°	11429	11515	11987
45°	11169	11311	11913
50°	10891	11082	11866
55°	10552	10791	11664
60°	10042	10358	9011
65°	9306	9802	6002
70°	8357	5046	5738
75°	6959	4571	5350
80°	4914	3838	4684
85°	1994	3099	4053



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	743.0	3.1
10°-20°	2127.5	8.8
20°-30°	3237.2	13.5
30°-40°	3936.0	16.4
40°-50°	4138.5	17.2
50°-60°	3778.9	15.7
60°-70°	2422.5	10.1
70°-80°	1144.4	4.8
80°-90°	322.7	1.3
90°-100°	285.6	1.2
100°-110°	722.8	3.0
110°-120°	606.7	2.5
120°-130°	288.0	1.2
130°-140°	144.1	0.6
140°-150°	83.5	0.3
150°-160°	48.7	0.2
160°-170°	25.2	0.1
170°-180°	7.7	0.0
0°-30°	6107.7	25.4
0°-40°	10043.7	41.7
0°-60°	17961.1	74.6
0°-90°	21850.6	90.8
90°-120°	1615.1	6.7
90°-150°	2130.8	8.9
90°-180°	2212.0	9.2
0°-180°	24063.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7821	7821	7821	7821	7821	
5°	7748	7779	7818	7861	7877	737
15°	7514	7570	7512	7523	7529	2121
25°	6992	7003	7028	7039	7033	3226
35°	6250	6213	6284	6361	6343	3906
45°	5271	5262	5351	5477	5468	4074
55°	4131	4099	4238	4379	4390	3684
65°	2783	2783	2945	1689	1695	2759
75°	1375	1401	910	958	962	1450
85°	180	228	284	307	291	266
90°	4	106	167	204	207	11
95°	50	136	240	320	346	145
105°	879	878	756	544	500	834
115°	608	617	621	616	602	612
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°	7821.1	7821.1	7821.1	7821.1	7821.1
2.5°	7766.2	7792.3	7821.1	7858.2	7878.6
5°	7748.3	7778.6	7818.4	7860.9	7877.3
7.5°	7710.0	7752.4	7790.9	7821.1	7830.7
10°	7661.9	7712.8	7734.7	7731.9	7725.1
12.5°	7597.4	7650.9	7644.2	7612.5	7618.0
15°	7513.7	7569.9	7512.3	7523.3	7528.8
17.5°	7414.9	7469.8	7402.5	7424.4	7425.9
20°	7299.7	7340.8	7288.6	7306.5	7306.5
22.5°	7161.0	7189.8	7167.9	7180.2	7183.0
25°	6992.2	7003.1	7027.8	7038.8	7033.3
27.5°	6830.4	6816.5	6864.6	6890.6	6876.9
30°	6650.5	6628.6	6684.7	6727.3	6710.9
32.5°	6444.6	6430.9	6495.4	6546.1	6536.6
35°	6249.7	6212.7	6284.0	6360.9	6343.0
37.5°	6019.2	5997.3	6078.1	6159.2	6149.7
40°	5794.1	5757.0	5849.0	5945.1	5935.4
42.5°	5552.6	5508.6	5608.9	5724.2	5713.2
45°	5271.2	5261.6	5350.8	5477.1	5467.5
47.5°	5021.6	4973.5	5098.2	5220.5	5231.5
50°	4719.5	4701.8	4815.7	4963.9	4974.8
52.5°	4424.5	4412.2	4531.5	4681.2	4700.3
55°	4130.7	4099.3	4237.8	4379.2	4390.3
57.5°	3816.6	3783.6	3925.0	4078.7	4102.0
60°	3480.3	3448.7	3603.8	3746.6	2979.4
62.5°	3144.1	3122.1	3284.2	2326.2	1874.8
65°	2783.2	2783.2	2945.0	1689.3	1694.9
67.5°	2445.6	2423.7	2195.9	1517.8	1517.8
70°	2083.3	2091.5	1265.2	1329.9	1331.2
72.5°	1719.6	1749.8	1092.5	1144.5	1147.2
75°	1375.1	1401.2	909.9	958.0	962.0
77.5°	1010.1	776.8	731.4	768.6	769.9
80°	709.5	489.9	560.0	595.6	591.5
82.5°	414.4	343.1	410.3	436.5	435.0
85°	179.7	227.8	284.0	307.4	290.9
87.5°	57.6	141.4	176.9	190.8	189.3
90°	4.3	106.4	167.1	203.5	206.9
92.5°	14.8	99.5	172.4	226.0	238.6
95°	50.2	136.3	240.2	320.4	346.5
97.5°	236.7	281.8	336.6	425.6	457.0
100°	482.7	532.7	453.8	503.3	512.5
102.5°	748.5	756.5	563.3	525.6	520.0
105°	878.9	877.6	755.7	544.4	500.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	710.8	724.0	714.2	690.1	652.5
115°	608.5	617.3	621.4	615.6	602.1
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°	882.4	892.7	830.4	646.2	531.8
110°	816.0	827.9	792.8	720.5	625.6



(END OF REPORT)