

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: P828291

Luminaire Tested: **OHBL-18HE-A-UNV-L940-CD-UPL12**

Issue Date: 5/3/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P828291  
REPORT IS A COMBINATION OF REPORTS P826059 AND G3-2310-221-12  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-18HE-A-UNV-L940-CD-UPL12  
Description:  
Light Source: -  
Ballast/Driver: -

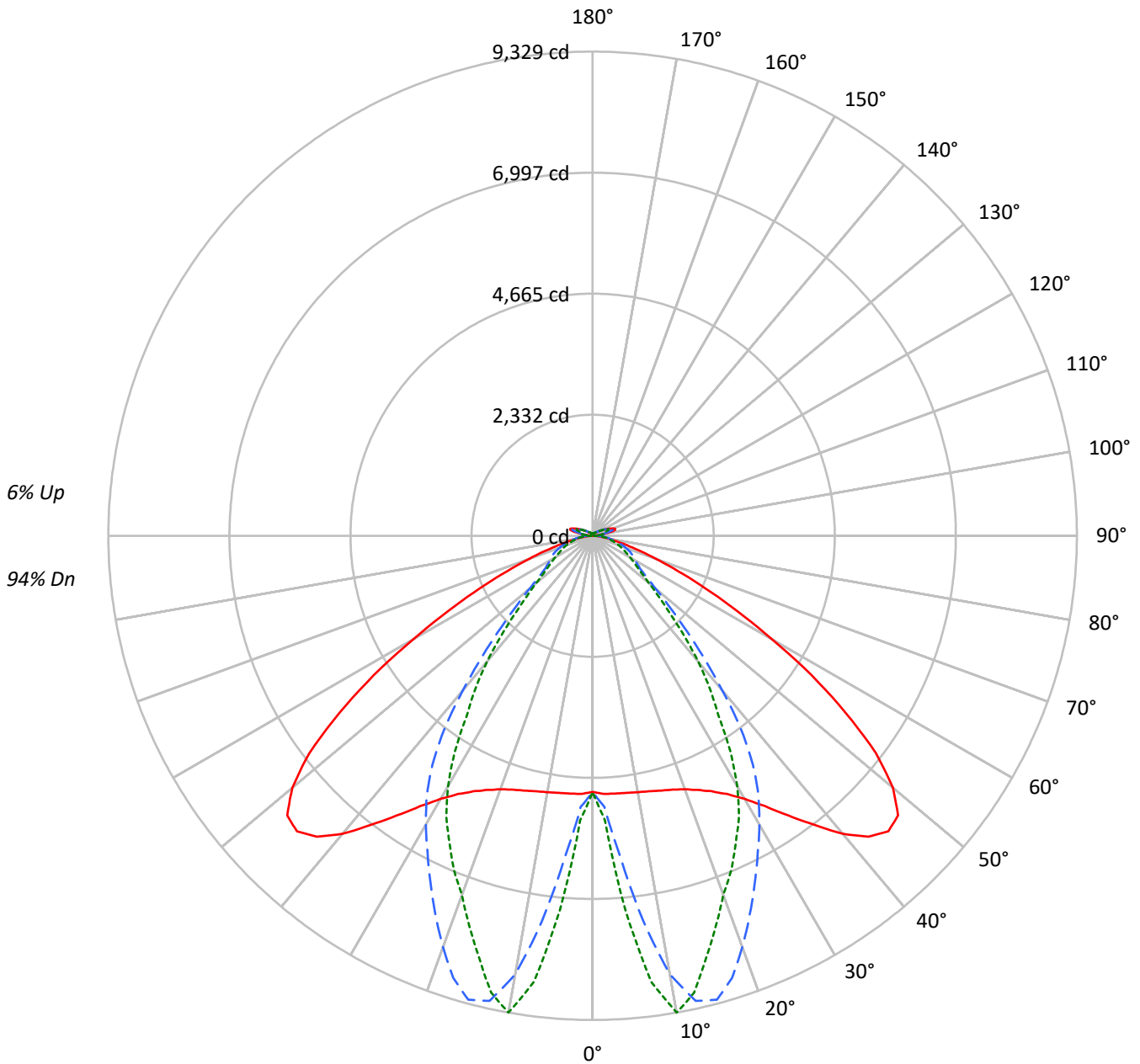
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16924.0 lumens  
Efficiency: N/A  
Efficacy: 151.9 lumens/watt  
Spacing Criteria (0/90/45): 2.18 / 1.37 / 1.3  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 111.4  
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	96	96	96	94																			
1	109	105	102	98	106	102	99	96	97	94	92	92	90	88	87	86	84	82																			
2	101	94	88	83	98	92	86	82	87	83	79	83	79	76	79	76	74	71																			
3	93	84	77	72	90	82	76	71	78	73	69	75	71	67	72	68	65	63																			
4	86	76	68	63	84	74	67	62	71	65	60	68	63	59	65	61	57	55																			
5	80	69	61	55	78	67	60	55	65	58	53	62	57	52	60	55	51	49																			
6	75	63	55	49	72	62	54	49	59	53	48	57	51	47	55	50	46	44																			
7	70	57	50	44	68	56	49	44	54	48	43	52	47	42	51	46	42	40																			
8	65	53	45	40	63	52	45	40	50	44	39	48	43	38	47	42	38	36																			
9	61	49	41	36	59	48	41	36	46	40	36	45	39	35	44	38	35	33																			
10	57	45	38	33	56	45	38	33	43	37	33	42	36	32	41	35	32	30																			

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

	0°	45°	90°
0°	8431	8431	8431
5°	8475	10605	12360
10°	8550	14620	16054
15°	8754	15927	14735
20°	9116	14778	13168
25°	9781	13290	12045
30°	10906	11967	10711
35°	12821	10474	8535
40°	15416	7977	6793
45°	17684	5434	4835
50°	17928	3728	3576
55°	15518	2934	2921
60°	11592	2745	2628
65°	7946	2754	2490
70°	5080	2656	2411
75°	3055	2458	2307
80°	1797	2161	2380
85°	865	1855	2207



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	644.5	3.8
10°-20°	2274.7	13.4
20°-30°	3351.8	19.8
30°-40°	3522.3	20.8
40°-50°	2695.2	15.9
50°-60°	1627.4	9.6
60°-70°	993.1	5.9
70°-80°	542.1	3.2
80°-90°	193.0	1.1
90°-100°	103.4	0.6
100°-110°	359.9	2.1
110°-120°	309.1	1.8
120°-130°	148.1	0.9
130°-140°	74.1	0.4
140°-150°	43.1	0.3
150°-160°	25.2	0.1
160°-170°	13.1	0.1
170°-180°	4.0	0.0
0°-30°	6271.0	37.1
0°-40°	9793.2	57.9
0°-60°	14115.8	83.4
0°-90°	15844.0	93.6
90°-120°	772.4	4.6
90°-150°	1037.8	6.1
90°-180°	1080.0	6.4
0°-180°	16924.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4936	4936	4936	4936	4936	
5°	4986	5349	6240	6968	7237	477
15°	5083	7917	9253	8634	8432	1445
25°	5432	9189	7387	6688	6523	2539
35°	6580	7358	5382	4482	4220	4174
45°	8053	4199	2479	2181	2090	6085
55°	5956	1424	1128	1046	1043	5263
65°	2388	901	830	710	674	2446
75°	636	560	514	424	407	731
85°	95	174	205	187	169	117
90°	3	16	21	27	30	7
95°	22	50	75	101	116	71
105°	450	444	379	269	247	425
115°	313	313	314	311	306	313
125°	153	159	163	161	162	143
135°	89	91	95	96	96	71
145°	65	67	68	69	70	41
155°	52	53	54	55	55	24
165°	45	45	46	46	46	13
175°	41	41	41	41	41	4
180°	40	40	40	40	40	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4936.5	4936.5	4936.5	4936.5	4936.5
2.5°	4977.0	5027.8	5228.1	5435.9	5486.5
5°	4986.1	5349.3	6240.4	6967.9	7236.8
7.5°	4996.7	5870.3	7494.6	8385.4	8670.5
10°	5016.8	6529.1	8581.4	9220.9	9328.7
12.5°	5041.8	7227.1	9179.4	9156.1	9020.2
15°	5083.3	7917.3	9253.1	8634.5	8431.5
17.5°	5126.9	8501.4	8931.8	8066.8	7890.0
20°	5197.8	8934.9	8432.0	7562.2	7361.2
22.5°	5300.0	9173.3	7907.9	7105.7	6974.7
25°	5431.9	9188.7	7387.3	6688.1	6523.0
27.5°	5608.7	8975.6	6888.3	6278.9	6104.5
30°	5849.2	8567.4	6424.8	5785.5	5569.1
32.5°	6175.8	7980.0	5946.7	5189.7	4947.1
35°	6579.7	7358.5	5381.8	4481.9	4219.8
37.5°	7020.4	6668.4	4696.1	3855.0	3702.4
40°	7494.6	5957.3	3883.5	3268.5	3159.2
42.5°	7864.6	5184.2	3128.5	2716.1	2600.0
45°	8053.2	4198.8	2479.0	2181.4	2089.8
47.5°	7979.8	3259.4	1965.3	1733.3	1705.8
50°	7551.1	2406.7	1573.3	1427.8	1416.4
52.5°	6881.0	1793.8	1299.6	1209.6	1189.9
55°	5955.6	1423.8	1128.5	1045.9	1042.8
57.5°	5000.3	1209.6	1024.4	960.4	938.2
60°	3981.2	1078.5	945.4	873.2	828.1
62.5°	3120.7	986.9	887.4	789.4	747.3
65°	2387.7	901.4	830.2	710.4	674.3
67.5°	1779.8	819.9	760.4	627.5	606.3
70°	1296.8	736.2	680.8	558.0	541.3
72.5°	924.2	652.9	601.2	492.8	474.4
75°	635.7	560.5	514.2	424.2	407.1
77.5°	428.9	466.4	428.5	362.2	355.0
80°	286.4	369.9	346.6	306.9	302.5
82.5°	173.8	268.4	273.5	249.6	237.5
85°	94.6	173.8	204.9	186.7	169.4
87.5°	37.0	96.3	141.2	126.8	119.4
90°	2.6	15.6	20.9	27.0	30.4
92.5°	7.8	20.0	33.0	47.0	51.3
95°	21.7	50.4	74.8	100.9	116.5
97.5°	117.4	127.8	144.3	170.4	179.1
100°	240.0	258.2	214.8	224.3	228.7
102.5°	381.7	376.5	274.7	248.7	244.3
105°	449.5	444.3	379.1	268.7	246.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	363.4	366.0	363.4	349.5	334.7
115°	313.0	313.0	313.9	311.3	306.0
117.5°	262.6	266.0	268.7	266.0	264.3
120°	220.0	225.2	226.9	223.4	223.4
122.5°	185.2	189.5	192.1	189.5	190.4
125°	153.0	159.1	162.6	160.8	161.7
127.5°	127.8	133.0	139.1	138.2	138.2
130°	111.3	114.8	119.1	120.0	120.0
132.5°	99.1	101.7	105.2	106.1	106.9
135°	88.7	91.3	94.8	95.6	95.6
137.5°	81.7	83.5	86.1	86.9	87.8
140°	74.8	77.4	79.1	80.0	80.0
142.5°	69.6	71.3	73.0	73.9	74.8
145°	65.2	66.9	67.8	68.7	69.6
147.5°	60.9	62.6	64.3	64.3	65.2
150°	58.3	59.1	60.0	60.9	60.9
152.5°	54.8	55.6	56.5	57.4	57.4
155°	52.2	53.0	53.9	54.8	54.8
157.5°	49.6	51.3	51.3	52.2	52.2
160°	47.8	48.7	49.6	49.6	49.6
162.5°	46.1	47.0	47.0	47.8	47.8
165°	45.2	45.2	46.1	46.1	46.1
167.5°	43.5	43.5	44.3	44.3	44.3
170°	42.6	42.6	42.6	43.5	43.5
172.5°	41.7	41.7	41.7	41.7	41.7
175°	40.9	40.9	40.9	40.9	40.9
177.5°	40.0	40.9	40.9	40.9	40.9
180°	40.0	40.0	40.0	40.0	40.0



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	452.1	453.8	418.2	324.3	268.7
110°	413.9	419.9	400.8	365.2	320.8



(END OF REPORT)