

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: P828343

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

Issue Date: 5/3/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P828343  
REPORT IS A COMBINATION OF REPORTS P826244 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-W-UNV-L940-CD-UPL24  
Description:  
Light Source: -  
Ballast/Driver: -

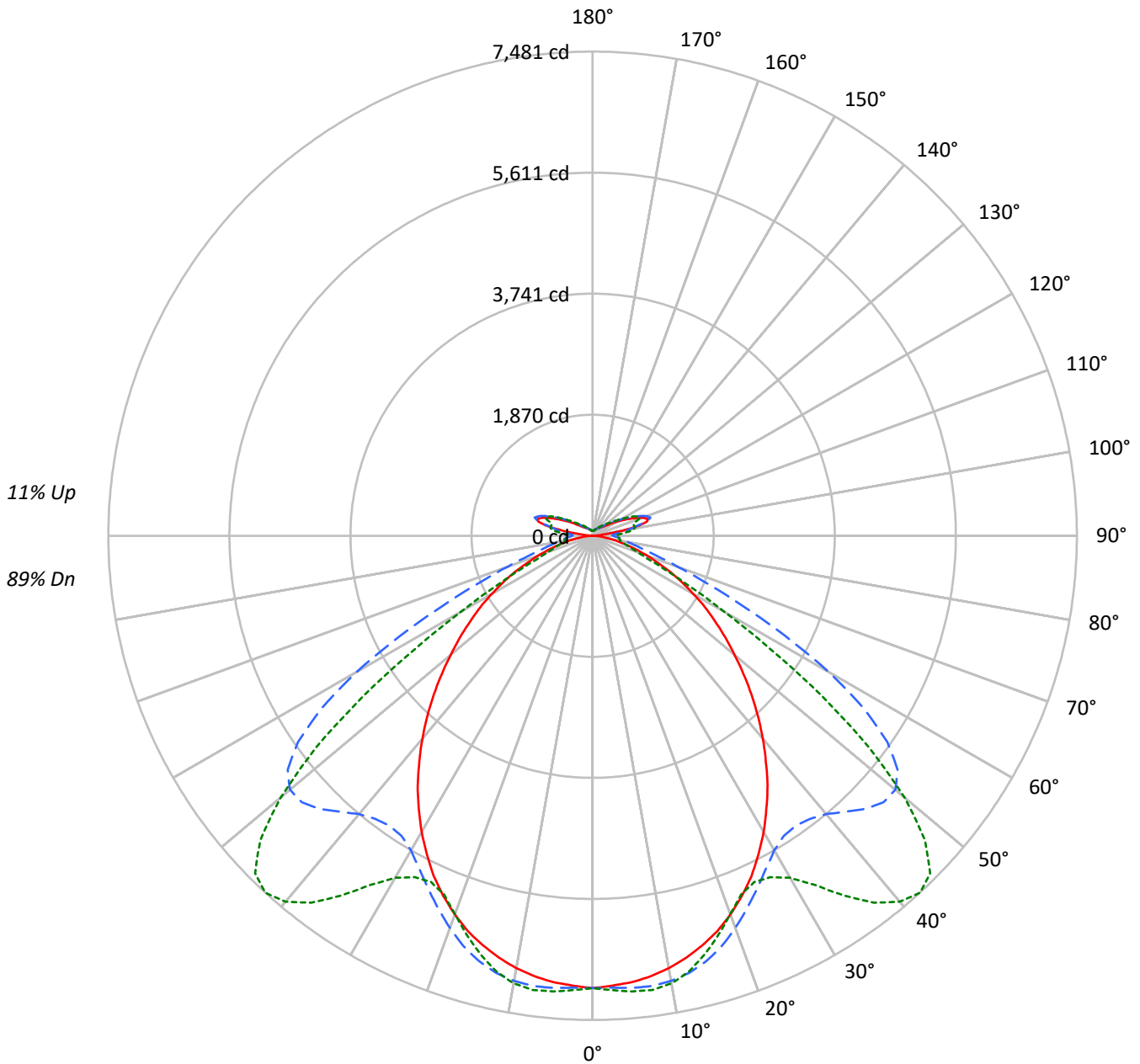
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23027.5 lumens  
Efficiency: N/A  
Efficacy: 153.1 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')  
CIE Type: Semi-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

TEST NUMBER: P828343

CATALOG NUMBER: OHBL-24HE-W-UNV-L940-CD-UPL24

### Luminous Intensity Polar Plot





TEST NUMBER: P828343

CATALOG NUMBER: OHBL-24HE-W-UNV-L940-CD-UPL24

**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	116	116	116	116	112	112	112	112	105	105	105	98	98	98	92	92	92	89																			
1	107	102	98	94	103	99	95	92	93	90	87	87	84	82	82	80	78	75																			
2	97	89	83	77	94	87	81	76	81	76	72	76	72	69	72	69	66	63																			
3	89	79	71	64	85	76	69	63	72	66	61	67	62	58	64	59	56	53																			
4	81	70	61	55	78	67	60	54	64	57	52	60	54	50	57	52	48	46																			
5	74	62	53	47	72	60	52	46	57	50	44	54	48	43	51	46	42	39																			
6	69	56	47	41	66	54	46	40	51	44	39	48	42	38	46	41	36	34																			
7	63	50	42	36	61	49	41	35	46	39	34	44	38	33	42	36	32	30																			
8	59	46	37	31	57	44	37	31	42	35	30	40	34	29	38	33	29	27																			
9	55	42	34	28	53	41	33	28	39	32	27	37	31	26	35	30	26	24																			
10	51	38	31	25	50	37	30	25	36	29	24	34	28	24	32	27	23	21																			

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

	0°	45°	90°
0°	11051	11051	11051
5°	10902	11041	11177
10°	10720	11029	11191
15°	10466	10852	10832
20°	10135	10483	10301
25°	9709	10037	10095
30°	9160	9706	10863
35°	8542	9891	12712
40°	7835	10719	14695
45°	7101	12167	15796
50°	6340	13464	14699
55°	5624	13460	11232
60°	4898	11401	6867
65°	4137	7883	4160
70°	3290	5106	3003
75°	2423	3669	2785
80°	1647	3237	3142
85°	997	3587	4966



TEST NUMBER: P828343

CATALOG NUMBER: OHBL-24HE-W-UNV-L940-CD-UPL24

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	667.8	2.9
10°-20°	1890.9	8.2
20°-30°	2767.1	12.0
30°-40°	3593.6	15.6
40°-50°	4388.3	19.1
50°-60°	3864.6	16.8
60°-70°	2013.9	8.7
70°-80°	863.6	3.8
80°-90°	420.1	1.8
90°-100°	396.4	1.7
100°-110°	820.9	3.6
110°-120°	671.9	2.9
120°-130°	326.9	1.4
130°-140°	163.6	0.7
140°-150°	92.9	0.4
150°-160°	52.0	0.2
160°-170°	25.2	0.1
170°-180°	7.7	0.0
0°-30°	5325.8	23.1
0°-40°	8919.4	38.7
0°-60°	17172.3	74.6
0°-90°	20469.8	88.9
90°-120°	1889.3	8.2
90°-150°	2472.7	10.7
90°-180°	2558.0	11.1
0°-180°	23027.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6988	6988	6988	6988	6988	
5°	6923	6976	7014	7075	7068	657
15°	6551	6735	6800	6748	6694	1844
25°	5804	6115	6011	5898	5904	2664
35°	4711	5209	5470	6379	6787	2937
45°	3469	4365	5966	7223	7374	2675
55°	2310	3823	5556	4871	4330	2073
65°	1325	2649	2543	1414	1217	1311
75°	534	1239	817	559	531	582
85°	113	442	416	407	412	126
90°	6	189	315	368	381	11
95°	49	190	368	454	488	145
105°	878	915	876	693	653	834
115°	611	638	695	713	711	616
125°	304	325	367	381	380	285
135°	183	186	208	226	229	144
145°	138	139	143	153	156	87
155°	113	115	113	114	114	51
165°	87	88	89	89	89	25
175°	78	79	79	80	80	8
180°	78	78	78	78	78	



TEST NUMBER: P828343

CATALOG NUMBER: OHBL-24HE-W-UNV-L940-CD-UPL24

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6988.0	6988.0	6988.0	6988.0	6988.0
2.5°	6957.8	6988.0	6989.5	7031.7	7027.2
5°	6923.1	6975.9	7013.5	7075.4	7067.9
7.5°	6865.8	6948.8	7015.1	7082.9	7076.9
10°	6784.4	6897.5	6984.9	7040.8	7022.7
12.5°	6678.9	6828.2	6914.1	6926.2	6891.5
15°	6550.7	6734.7	6799.5	6748.3	6693.9
17.5°	6406.0	6621.6	6644.2	6532.7	6464.8
20°	6225.0	6470.8	6448.2	6294.4	6219.0
22.5°	6024.6	6305.0	6232.6	6071.3	5998.9
25°	5804.5	6115.1	6011.0	5898.0	5904.0
27.5°	5546.6	5899.4	5798.4	5849.7	5946.1
30°	5284.3	5673.3	5611.5	5910.0	6099.9
32.5°	4996.3	5441.1	5496.9	6086.4	6396.9
35°	4711.4	5208.9	5469.8	6378.9	6787.4
37.5°	4396.3	4973.7	5513.5	6716.5	7144.7
40°	4090.2	4744.6	5613.0	7019.6	7381.5
42.5°	3778.2	4539.5	5780.3	7199.0	7481.0
45°	3469.1	4364.6	5965.8	7223.2	7373.9
47.5°	3160.0	4216.9	6093.9	7031.7	6962.3
50°	2861.5	4085.7	6103.0	6571.9	6288.4
52.5°	2582.6	3965.1	5937.1	5839.1	5398.9
55°	2309.7	3823.4	5555.7	4871.2	4330.0
57.5°	2060.9	3627.4	4967.7	3830.9	3239.9
60°	1797.1	3362.1	4207.9	2802.7	2336.9
62.5°	1554.4	3031.9	3356.1	1950.9	1679.5
65°	1325.2	2648.9	2543.4	1414.2	1216.7
67.5°	1082.5	2252.5	1877.0	1031.2	904.6
70°	892.6	1884.5	1397.6	802.1	728.2
72.5°	698.1	1534.8	1044.8	651.3	610.6
75°	533.7	1239.3	817.1	559.3	530.7
77.5°	393.5	980.0	657.3	494.5	467.4
80°	275.9	771.9	550.3	441.8	431.2
82.5°	185.5	597.0	468.9	420.6	422.1
85°	113.1	441.8	416.1	407.1	411.6
87.5°	54.3	313.6	357.3	370.9	375.4
90°	5.8	189.4	315.3	367.5	381.2
92.5°	14.8	161.3	303.8	369.1	387.9
95°	49.1	190.0	368.1	454.5	488.2
97.5°	236.9	329.9	468.1	564.7	597.9
100°	484.5	575.8	586.1	647.3	659.6
102.5°	746.2	796.1	694.1	671.6	667.7
105°	878.1	915.3	875.5	692.9	653.3



TEST NUMBER: P828343

CATALOG NUMBER: OHBL-24HE-W-UNV-L940-CD-UPL24

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	711.6	749.1	798.5	799.6	774.8
115°	610.7	637.9	695.2	713.0	710.9
117.5°	525.2	542.7	595.9	613.1	615.6
120°	436.5	458.2	509.8	523.5	519.8
122.5°	367.9	385.9	431.8	446.6	442.9
125°	304.4	324.6	366.9	381.1	379.9
127.5°	257.7	270.5	312.4	328.3	329.0
130°	225.5	232.5	268.3	284.3	288.1
132.5°	201.2	207.3	234.5	253.0	255.2
135°	182.9	186.4	207.5	225.9	229.2
137.5°	168.2	170.8	186.5	204.2	207.3
140°	155.1	158.6	168.9	185.8	188.1
142.5°	145.3	147.3	155.3	169.1	170.6
145°	138.2	138.6	142.7	152.6	156.5
147.5°	130.3	132.2	134.0	141.8	143.3
150°	124.2	126.0	125.5	129.5	133.3
152.5°	118.2	119.9	119.5	120.3	123.4
155°	112.9	114.7	113.4	114.2	114.2
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°	883.1	925.8	937.9	786.1	683.0
110°	815.3	856.2	888.0	845.2	762.9



(END OF REPORT)