

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: P828642

Luminaire Tested: **OHBL-24HE-W-UNV-L950-CD-UPL12**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P828642  
REPORT IS A COMBINATION OF REPORTS P826076 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-24HE-W-UNV-L950-CD-UPL12  
Description:  
Light Source: -  
Ballast/Driver: -

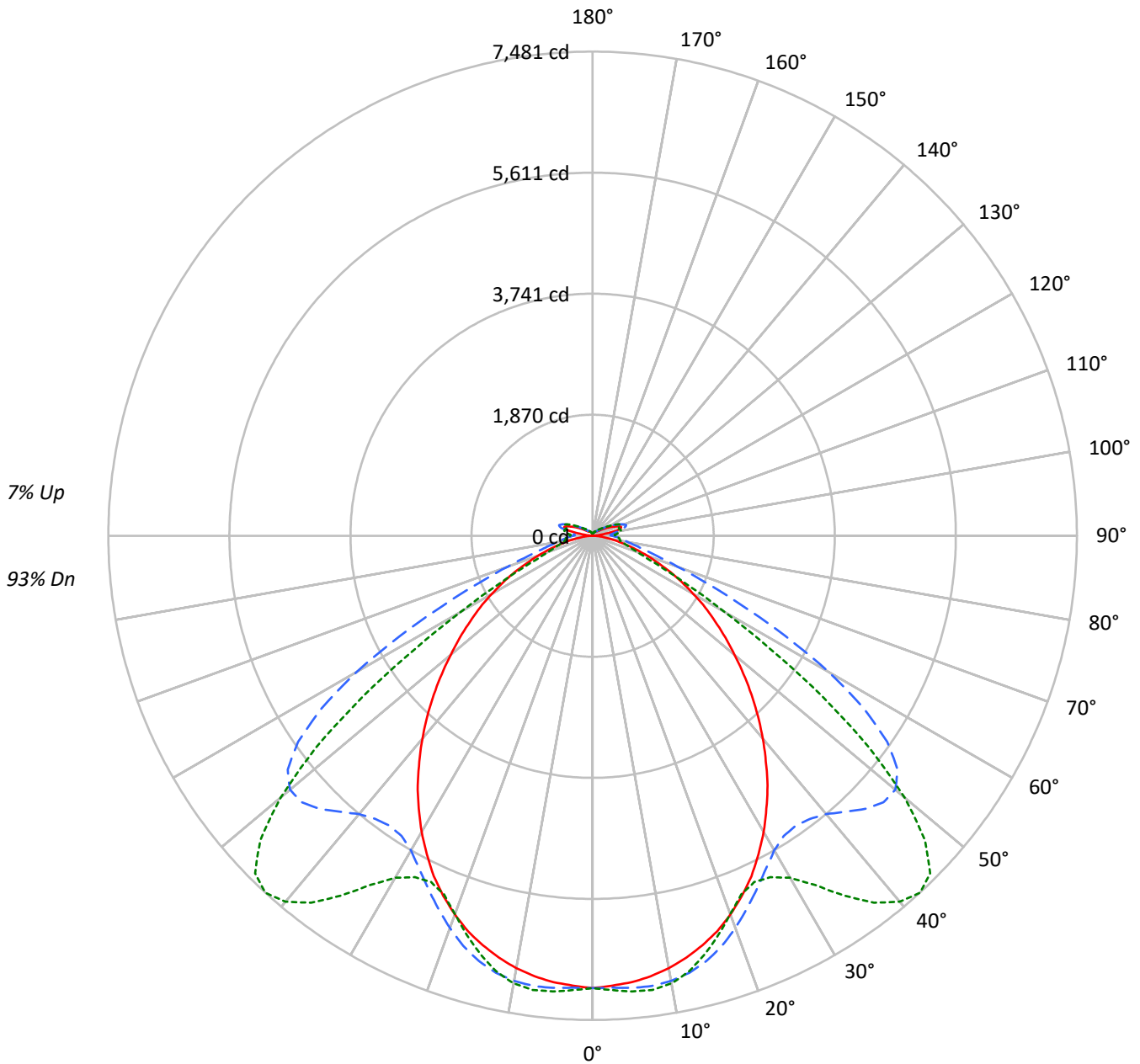
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22005.9 lumens  
Efficiency: N/A  
Efficacy: 155.6 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: Direct  
  
Input Watts (W): 141.4  
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: P828642

CATALOG NUMBER: OHBL-24HE-W-UNV-L950-CD-UPL12

### 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	114	114	114	114	107	107	107	101	101	101	96	96	96	93																			
1	108	103	99	95	104	100	96	93	95	92	89	90	87	85	85	83	81	79																			
2	98	90	84	78	95	88	82	77	83	78	74	79	75	71	75	72	69	66																			
3	90	79	71	65	86	77	70	64	73	67	62	70	64	60	66	62	58	56																			
4	82	70	62	55	79	68	60	54	65	58	53	62	56	51	59	54	50	48																			
5	75	63	54	47	73	61	53	47	58	51	45	55	49	44	53	48	43	41																			
6	69	56	47	41	67	55	47	41	52	45	40	50	44	39	48	42	38	36																			
7	64	51	42	36	62	50	41	36	47	40	35	45	39	34	43	38	33	31																			
8	59	46	38	32	58	45	37	32	43	36	31	41	35	30	40	34	30	28																			
9	55	42	34	28	54	41	34	28	40	33	28	38	32	27	37	31	27	25																			
10	52	39	31	26	50	38	30	25	37	30	25	35	29	25	34	28	24	22																			

**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



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	667.8	3.0
10°-20°	1890.9	8.6
20°-30°	2767.1	12.6
30°-40°	3593.6	16.3
40°-50°	4388.3	19.9
50°-60°	3864.6	17.6
60°-70°	2013.9	9.2
70°-80°	863.6	3.9
80°-90°	417.5	1.9
90°-100°	298.3	1.4
100°-110°	481.0	2.2
110°-120°	380.7	1.7
120°-130°	187.1	0.9
130°-140°	93.6	0.4
140°-150°	52.5	0.2
150°-160°	28.4	0.1
160°-170°	13.1	0.1
170°-180°	4.0	0.0
0°-30°	5325.8	24.2
0°-40°	8919.4	40.5
0°-60°	17172.3	78.0
0°-90°	20467.2	93.0
90°-120°	1160.0	5.3
90°-150°	1493.2	6.8
90°-180°	1539.0	7.0
0°-180°	22005.9	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°	4	176	295	341	352	10
95°	25	144	293	357	380	74
105°	456	497	521	439	420	432
115°	322	343	401	418	416	322
125°	164	174	214	227	230	152
135°	98	100	119	136	138	78
145°	77	76	78	88	92	48
155°	64	65	63	64	64	28
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°	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°	4.1	175.5	295.3	340.6	351.6
92.5°	7.8	142.2	274.2	327.3	339.3
95°	24.8	143.9	293.4	357.2	380.4
97.5°	120.4	204.7	340.3	405.6	418.8
100°	244.5	324.6	389.6	436.9	445.8
102.5°	386.2	435.2	431.5	438.6	437.3
105°	455.5	497.1	520.8	439.0	420.3



TEST NUMBER: P828642

CATALOG NUMBER: OHBL-24HE-W-UNV-L950-CD-UPL12

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	372.5	402.2	462.9	470.1	458.4
115°	322.0	343.2	401.3	418.3	416.1
117.5°	273.1	293.2	345.5	361.0	360.8
120°	230.5	247.8	293.3	307.9	309.3
122.5°	195.7	207.6	250.9	264.9	267.3
125°	163.5	174.1	213.9	227.2	229.5
127.5°	136.9	143.5	182.8	197.0	198.6
130°	120.3	123.8	155.3	171.3	174.2
132.5°	108.2	110.8	135.4	151.3	155.2
135°	97.7	100.3	118.9	136.3	137.9
137.5°	90.8	92.5	105.6	121.6	125.5
140°	83.8	86.4	94.2	110.2	111.6
142.5°	80.1	80.3	86.6	99.6	101.9
145°	77.3	76.0	78.3	88.2	92.2
147.5°	72.9	73.1	74.9	80.9	83.3
150°	70.3	71.2	69.0	72.9	75.9
152.5°	66.9	67.7	65.6	66.4	69.5
155°	64.3	65.1	62.9	63.8	63.8
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°	459.7	500.6	544.9	476.5	423.9
110°	421.4	460.6	512.4	500.9	459.5



(END OF REPORT)