

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: P828360

Luminaire Tested: **OHBL-24SE-W-UNV-L940-CD-UPL12**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P828360  
REPORT IS A COMBINATION OF REPORTS P826082 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-24SE-W-UNV-L940-CD-UPL12  
Description:  
Light Source: -  
Ballast/Driver: -

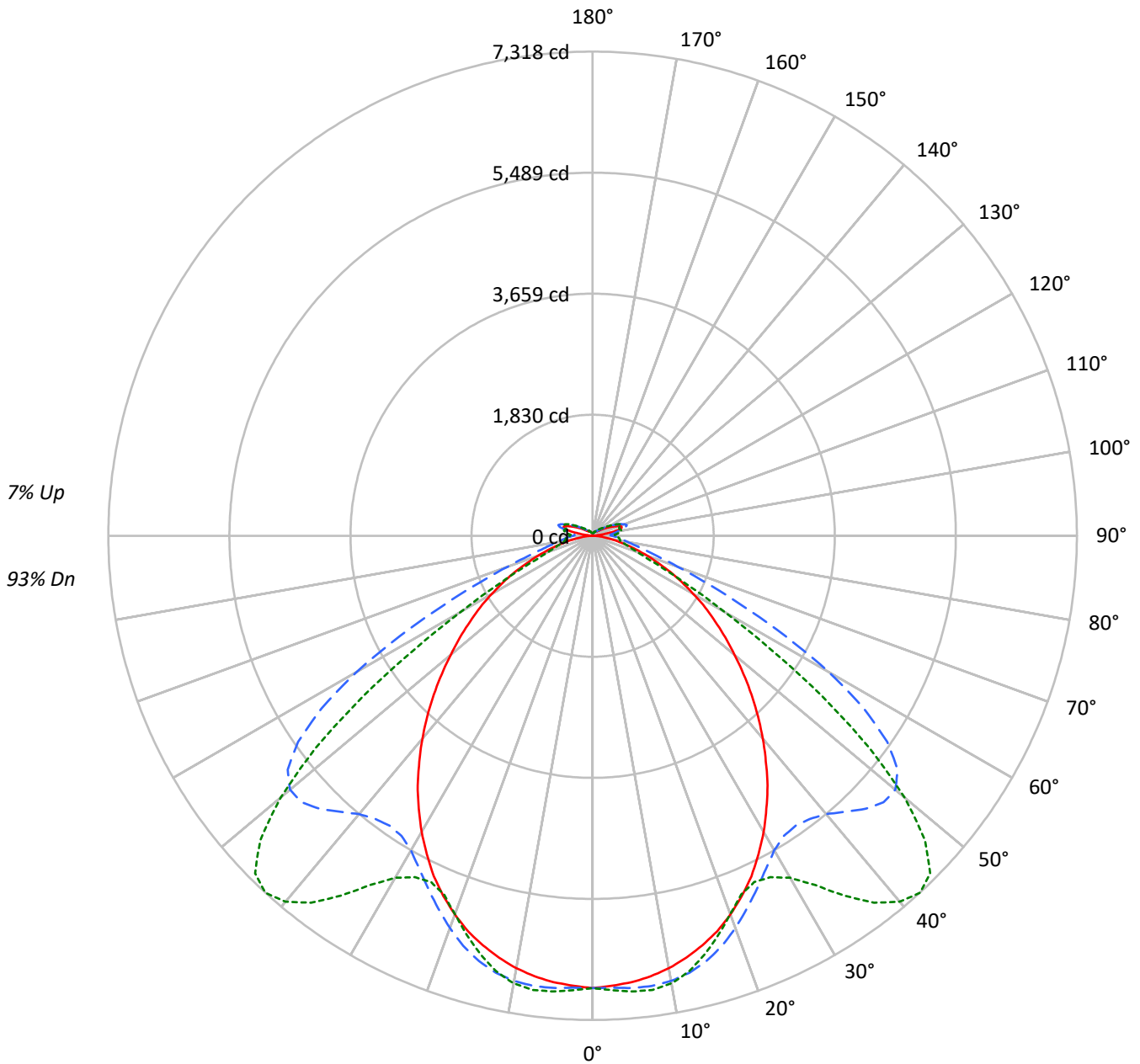
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21550.4 lumens  
Efficiency: N/A  
Efficacy: 147.2 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 146.4  
Input Voltage (V): NR  
Input Current (Ain): 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				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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	96	96	96	96	96	93
1	108	103	99	95	104	100	96	93	95	92	89	89	87	85	85	83	81	81	81	81	79
2	98	90	84	78	95	88	82	77	83	78	74	79	75	71	75	71	69	69	69	69	66
3	90	79	71	65	86	77	70	64	73	67	62	70	64	60	66	62	58	58	58	58	56
4	82	70	62	55	79	68	60	54	65	58	53	62	56	51	59	54	50	50	50	50	48
5	75	63	54	47	73	61	53	47	58	51	45	55	49	44	53	48	43	43	43	43	41
6	69	56	47	41	67	55	47	41	52	45	40	50	44	39	48	42	38	38	38	38	36
7	64	51	42	36	62	50	41	36	47	40	35	45	39	34	43	38	33	33	33	33	31
8	59	46	38	32	58	45	37	32	43	36	31	41	35	30	40	34	30	30	30	30	28
9	55	42	34	28	54	41	34	28	40	33	28	38	32	27	37	31	27	27	27	27	25
10	52	39	31	26	50	38	30	25	36	30	25	35	29	25	34	28	24	24	24	24	22

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

	0°	45°	90°
0°	11675	11675	11675
5°	11511	11659	11809
10°	11311	11641	11822
15°	11035	11449	11444
20°	10680	11055	10883
25°	10224	10579	10665
30°	9638	10225	11476
35°	8981	10413	13430
40°	8230	11278	15525
45°	7452	12793	16688
50°	6646	14145	15530
55°	5887	14127	11866
60°	5119	11952	7255
65°	4314	8252	4395
70°	3420	5334	3173
75°	2509	3822	2942
80°	1694	3356	3319
85°	1011	3685	5246



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	653.2	3.0
10°-20°	1849.8	8.6
20°-30°	2706.8	12.6
30°-40°	3515.4	16.3
40°-50°	4292.7	19.9
50°-60°	3780.4	17.5
60°-70°	1970.0	9.1
70°-80°	844.8	3.9
80°-90°	408.4	1.9
90°-100°	294.1	1.4
100°-110°	478.4	2.2
110°-120°	379.2	1.8
120°-130°	186.2	0.9
130°-140°	93.2	0.4
140°-150°	52.3	0.2
150°-160°	28.4	0.1
160°-170°	13.1	0.1
170°-180°	4.0	0.0
0°-30°	5209.8	24.2
0°-40°	8725.2	40.5
0°-60°	16798.4	77.9
0°-90°	20021.6	92.9
90°-120°	1151.6	5.3
90°-150°	1483.4	6.9
90°-180°	1529.0	7.1
0°-180°	21550.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6836	6836	6836	6836	6836	
5°	6772	6824	6861	6921	6914	642
15°	6408	6588	6651	6601	6548	1804
25°	5678	5982	5880	5770	5775	2606
35°	4609	5096	5351	6240	6640	2873
45°	3394	4270	5836	7066	7213	2617
55°	2259	3740	5435	4765	4236	2028
65°	1296	2591	2488	1383	1190	1283
75°	522	1212	799	547	519	569
85°	111	432	407	398	403	123
90°	4	172	289	334	345	9
95°	25	142	289	352	375	74
105°	455	496	518	435	417	431
115°	322	342	399	416	414	322
125°	163	174	213	226	228	151
135°	98	100	118	136	137	77
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°	6835.8	6835.8	6835.8	6835.8	6835.8
2.5°	6806.3	6835.8	6837.3	6878.6	6874.2
5°	6772.4	6824.0	6860.9	6921.3	6914.0
7.5°	6716.4	6797.5	6862.4	6928.7	6922.8
10°	6636.7	6747.3	6832.9	6887.4	6869.7
12.5°	6533.4	6679.5	6763.5	6775.3	6741.4
15°	6408.1	6588.0	6651.4	6601.3	6548.2
17.5°	6266.5	6477.4	6499.5	6390.4	6324.1
20°	6089.5	6329.9	6307.8	6157.4	6083.7
22.5°	5893.4	6167.7	6096.9	5939.1	5868.3
25°	5678.1	5981.9	5880.1	5769.5	5775.4
27.5°	5425.9	5770.9	5672.2	5722.3	5816.7
30°	5169.3	5549.8	5489.3	5781.3	5967.2
32.5°	4887.6	5322.7	5377.2	5953.9	6257.7
35°	4608.8	5095.6	5350.6	6240.0	6639.7
37.5°	4300.6	4865.4	5393.4	6570.3	6989.2
40°	4001.2	4641.3	5490.8	6866.8	7220.7
42.5°	3695.9	4440.7	5654.4	7042.2	7318.0
45°	3393.5	4269.6	5835.9	7065.9	7213.3
47.5°	3091.2	4125.1	5961.3	6878.6	6810.7
50°	2799.2	3996.7	5970.0	6428.8	6151.5
52.5°	2526.3	3878.8	5807.9	5712.0	5281.4
55°	2259.4	3740.2	5434.7	4765.2	4235.7
57.5°	2016.1	3548.5	4859.5	3747.6	3169.4
60°	1758.0	3288.8	4116.2	2741.7	2285.9
62.5°	1520.6	2965.8	3282.9	1908.4	1643.0
65°	1296.3	2591.3	2488.0	1383.4	1190.2
67.5°	1058.9	2203.3	1836.2	1008.8	884.9
70°	873.1	1843.6	1367.2	784.6	712.3
72.5°	682.9	1501.4	1022.0	637.1	597.3
75°	522.1	1212.3	799.4	547.1	519.1
77.5°	384.9	958.6	643.0	483.8	457.2
80°	269.9	755.1	538.3	432.1	421.8
82.5°	181.4	584.0	458.6	411.5	413.0
85°	110.6	432.1	407.1	398.2	402.6
87.5°	53.1	306.7	349.5	362.8	367.3
90°	4.1	172.0	289.3	333.7	344.6
92.5°	7.8	139.5	269.0	321.3	333.0
95°	24.7	141.9	288.7	351.6	374.6
97.5°	120.3	203.0	336.0	400.5	413.6
100°	244.4	323.1	385.9	432.3	441.1
102.5°	386.1	434.0	428.1	434.5	433.1
105°	455.4	495.9	517.8	435.3	416.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	372.3	401.4	460.8	467.5	455.7
115°	321.9	342.5	399.4	415.9	413.7
117.5°	272.9	292.6	343.9	359.0	358.7
120°	230.3	247.3	291.8	306.0	307.5
122.5°	195.5	207.3	249.7	263.3	265.6
125°	163.4	173.9	212.8	225.7	228.1
127.5°	136.7	143.4	181.9	195.8	197.3
130°	120.2	123.6	154.5	170.2	173.1
132.5°	108.0	110.6	134.7	150.3	154.2
135°	97.6	100.2	118.3	135.5	136.9
137.5°	90.6	92.3	105.3	120.9	124.7
140°	83.6	86.2	93.9	109.5	110.9
142.5°	79.9	80.2	86.3	98.9	101.3
145°	77.0	75.8	78.2	87.9	91.6
147.5°	72.7	72.9	74.7	80.6	82.9
150°	70.1	70.9	68.9	72.7	75.6
152.5°	66.6	67.5	65.4	66.3	69.2
155°	64.0	64.9	62.8	63.6	63.6
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°	459.5	499.6	542.1	473.2	420.6
110°	421.2	459.8	509.9	497.9	456.5



(END OF REPORT)