

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: P828109

Luminaire Tested: **OHBL-36SE-W-UNV-L935-CD-UPL18**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P828109  
REPORT IS A COMBINATION OF REPORTS P826178 AND G3-2310-221-8  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-36SE-W-UNV-L935-CD-UPL18  
Description:  
Light Source: -  
Ballast/Driver: -

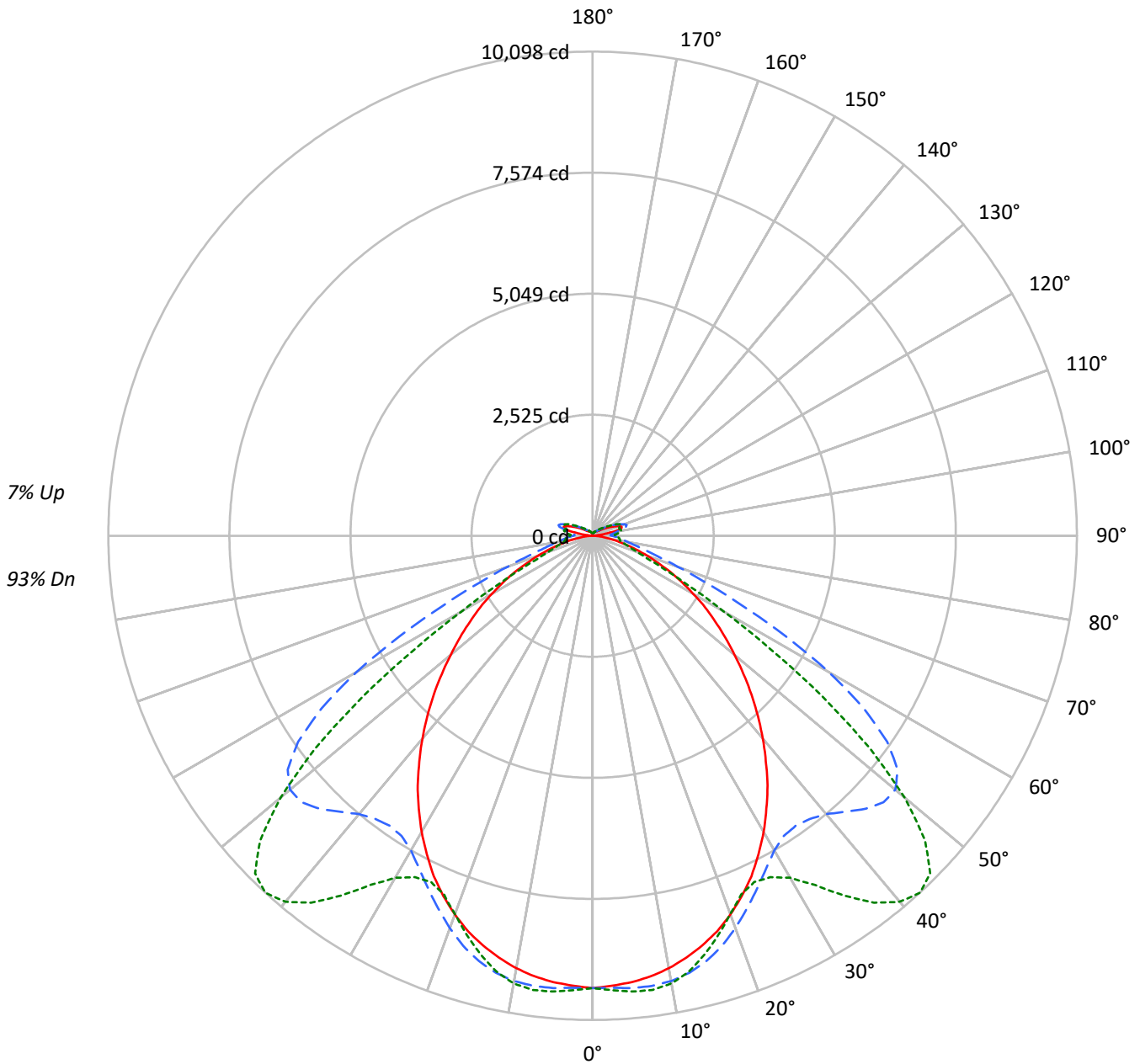
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29735.8 lumens  
Efficiency: N/A  
Efficacy: 133.2 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 223.3  
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	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	89	87	85	85	83	81	79																			
2	98	90	84	78	95	88	82	77	83	78	74	79	75	71	75	71	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	36	30	25	35	29	25	34	28	24	22																			

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

	0°	45°	90°
0°	14918	14918	14918
5°	14717	14904	15088
10°	14471	14888	15106
15°	14127	14649	14622
20°	13681	14151	13906
25°	13106	13548	13627
30°	12365	13102	14664
35°	11531	13351	17159
40°	10577	14469	19837
45°	9586	16424	21323
50°	8559	18176	19843
55°	7593	18170	15161
60°	6612	15390	9270
65°	5585	10642	5615
70°	4441	6893	4054
75°	3271	4953	3759
80°	2224	4370	4241
85°	1346	4842	6704



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	901.4	3.0
10°-20°	2552.6	8.6
20°-30°	3735.3	12.6
30°-40°	4851.0	16.3
40°-50°	5923.7	19.9
50°-60°	5216.8	17.5
60°-70°	2718.5	9.1
70°-80°	1165.8	3.9
80°-90°	563.6	1.9
90°-100°	405.7	1.4
100°-110°	659.0	2.2
110°-120°	522.4	1.8
120°-130°	257.0	0.9
130°-140°	128.5	0.4
140°-150°	72.0	0.2
150°-160°	39.0	0.1
160°-170°	17.9	0.1
170°-180°	5.5	0.0
0°-30°	7189.3	24.2
0°-40°	12040.3	40.5
0°-60°	23180.8	78.0
0°-90°	27628.7	92.9
90°-120°	1587.2	5.3
90°-150°	2044.6	6.9
90°-180°	2107.0	7.1
0°-180°	29735.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	9433	9433	9433	9433	9433	
5°	9346	9417	9468	9551	9541	886
15°	8843	9091	9179	9109	9036	2490
25°	7835	8255	8114	7962	7970	3596
35°	6360	7032	7384	8611	9162	3964
45°	4683	5892	8053	9750	9954	3611
55°	3118	5161	7500	6576	5845	2798
65°	1789	3576	3433	1909	1642	1770
75°	720	1673	1103	755	716	786
85°	153	596	562	550	556	170
90°	5	237	399	461	475	13
95°	36	194	403	485	515	103
105°	626	683	713	598	573	594
115°	440	473	550	571	574	444
125°	223	239	293	313	313	208
135°	136	138	163	187	190	107
145°	106	104	108	121	126	67
155°	88	90	86	87	87	39
165°	62	62	62	63	63	18
175°	56	56	57	57	57	5
180°	56	56	56	56	56	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	9433.0	9433.0	9433.0	9433.0	9433.0
2.5°	9392.3	9433.0	9435.1	9492.1	9485.9
5°	9345.5	9416.8	9467.7	9551.1	9540.9
7.5°	9268.2	9380.1	9469.7	9561.2	9553.1
10°	9158.2	9310.9	9429.0	9504.2	9479.8
12.5°	9015.8	9217.3	9333.3	9349.6	9302.8
15°	8842.8	9091.2	9178.7	9109.4	9036.2
17.5°	8647.5	8938.5	8969.0	8818.4	8726.8
20°	8403.2	8735.0	8704.4	8496.8	8395.1
22.5°	8132.6	8511.1	8413.4	8195.7	8098.0
25°	7835.4	8254.7	8114.3	7961.6	7969.8
27.5°	7487.4	7963.7	7827.3	7896.5	8026.8
30°	7133.2	7658.3	7574.9	7977.9	8234.3
32.5°	6744.6	7344.9	7420.2	8216.0	8635.2
35°	6359.9	7031.5	7383.6	8610.8	9162.3
37.5°	5934.6	6714.1	7442.7	9066.7	9644.7
40°	5521.4	6404.7	7576.9	9475.8	9964.2
42.5°	5100.2	6127.9	7802.8	9718.0	10098.5
45°	4682.9	5891.8	8053.2	9750.5	9954.0
47.5°	4265.8	5692.4	8226.2	9492.1	9398.4
50°	3862.8	5515.3	8238.4	8871.3	8488.8
52.5°	3486.2	5352.5	8014.5	7882.3	7288.0
55°	3117.9	5161.2	7499.6	6575.7	5845.0
57.5°	2782.1	4896.7	6705.9	5171.4	4373.6
60°	2425.9	4538.4	5680.2	3783.4	3154.5
62.5°	2098.2	4092.8	4530.3	2633.5	2267.2
65°	1788.9	3575.8	3433.3	1909.0	1642.4
67.5°	1461.2	3040.6	2533.8	1392.1	1221.1
70°	1204.8	2544.0	1886.6	1082.8	983.0
72.5°	942.3	2071.8	1410.4	879.2	824.2
75°	720.4	1672.9	1103.1	755.1	716.4
77.5°	531.2	1322.8	887.3	667.5	630.9
80°	372.4	1042.0	742.8	596.3	582.1
82.5°	250.3	805.9	632.9	567.8	569.8
85°	152.7	596.3	561.7	549.5	555.6
87.5°	73.3	423.3	482.3	500.7	506.8
90°	5.3	236.6	398.8	460.8	475.2
92.5°	10.8	192.3	371.5	441.9	458.8
95°	35.8	194.5	402.6	485.2	515.3
97.5°	166.6	281.3	462.9	552.5	571.9
100°	341.1	441.2	531.1	596.2	607.3
102.5°	530.2	602.7	590.0	598.1	597.2
105°	625.7	682.9	713.0	597.5	573.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	513.9	553.8	629.3	644.5	627.8
115°	439.8	473.2	549.7	571.2	574.4
117.5°	378.4	403.3	472.2	494.9	497.8
120°	318.4	340.5	402.9	424.8	425.2
122.5°	268.4	286.1	345.2	365.1	365.5
125°	222.6	238.7	293.3	312.9	313.2
127.5°	188.9	198.4	250.7	270.2	270.6
130°	165.6	171.4	213.0	234.2	239.1
132.5°	149.8	152.2	185.7	206.9	212.7
135°	135.6	138.1	162.6	186.6	189.5
137.5°	124.8	127.2	144.8	166.8	171.8
140°	115.6	118.1	128.7	150.7	153.6
142.5°	110.1	110.6	119.2	136.2	139.2
145°	106.2	103.9	108.4	121.4	125.5
147.5°	100.4	100.1	101.8	111.6	113.6
150°	95.4	97.1	94.8	99.6	104.5
152.5°	92.1	92.9	90.6	91.4	95.4
155°	87.9	89.6	86.4	87.2	87.2
157.5°	69.2	70.0	70.8	71.7	71.7
160°	66.7	66.7	67.5	68.3	68.3
162.5°	64.2	64.2	65.0	65.8	65.8
165°	61.7	62.5	62.5	63.3	63.3
167.5°	60.0	60.0	60.8	60.8	61.7
170°	58.3	58.3	59.2	59.2	59.2
172.5°	56.7	57.5	57.5	57.5	57.5
175°	55.8	55.8	56.7	56.7	56.7
177.5°	55.0	55.8	55.8	55.8	55.8
180°	55.8	55.8	55.8	55.8	55.8



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	633.5	686.4	745.9	652.3	583.8
110°	581.0	632.4	703.1	685.7	632.3



(END OF REPORT)