

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: P828403

Luminaire Tested: **OHBL-36SE-MFL-UNV-L940-CD-UPL18**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P828403  
REPORT IS A COMBINATION OF REPORTS P826175 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-MFL-UNV-L940-CD-UPL18  
Description:  
Light Source: -  
Ballast/Driver: -

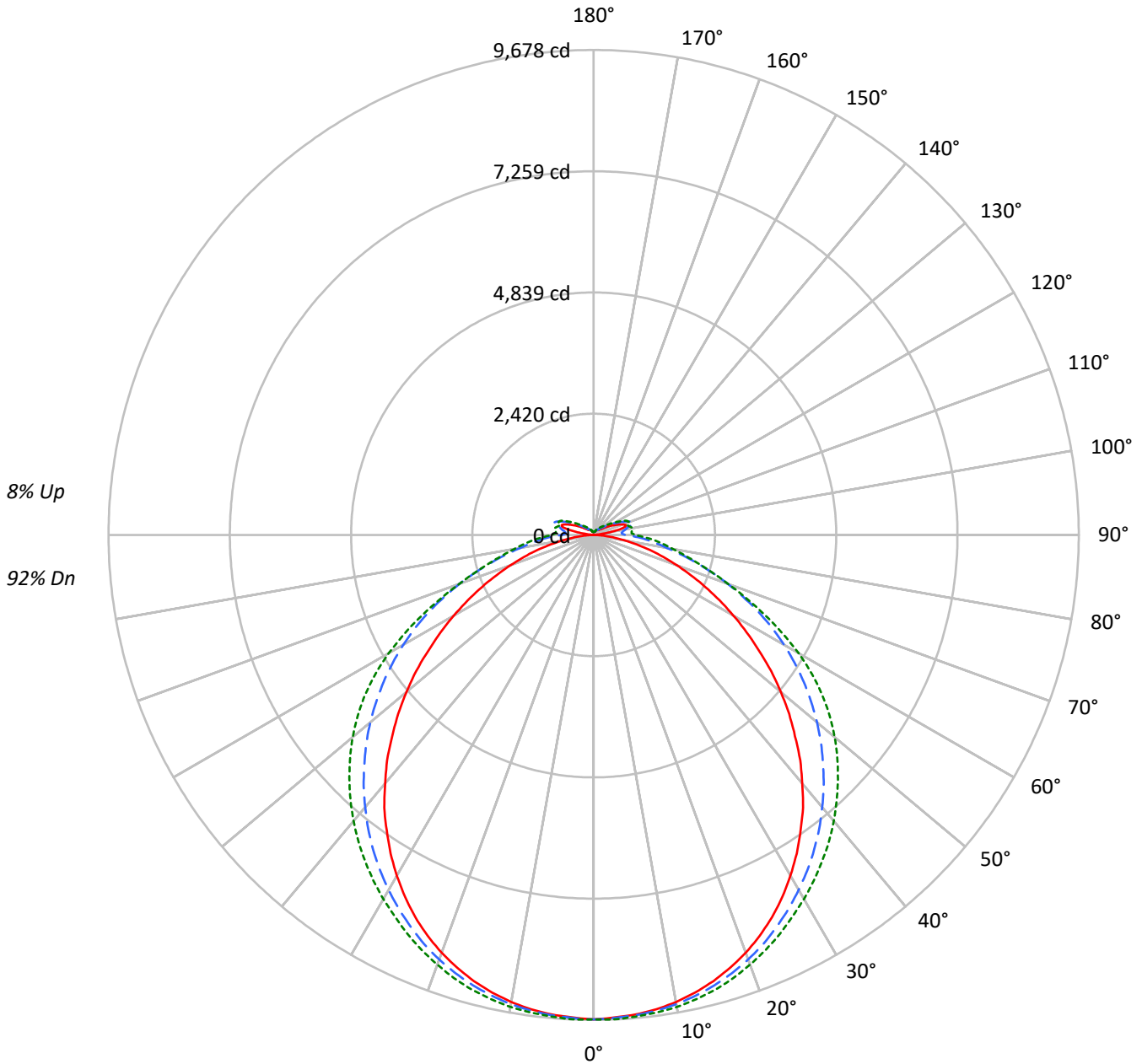
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30493.1 lumens  
Efficiency: N/A  
Efficacy: 136.6 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38  
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	113	113	113	113	107	107	107	100	100	100	95	95	95	92																			
1	106	101	97	93	103	98	94	91	92	89	86	87	85	82	82	80	78	76																			
2	97	88	81	75	93	86	79	74	81	75	71	76	72	68	72	68	65	63																			
3	88	77	69	63	85	75	68	61	71	65	59	67	62	57	64	59	55	53																			
4	80	68	60	53	78	67	58	52	63	56	50	60	54	49	57	52	47	45																			
5	74	61	52	45	71	59	51	45	56	49	44	54	47	42	51	46	41	39																			
6	68	55	46	40	66	54	45	39	51	44	38	48	42	37	46	41	36	34																			
7	63	50	41	35	61	49	40	34	46	39	34	44	38	33	42	36	32	30																			
8	59	45	37	31	57	44	36	31	42	35	30	40	34	29	39	33	29	27																			
9	55	42	33	28	53	41	33	28	39	32	27	37	31	26	36	30	26	24																			
10	51	38	30	25	50	38	30	25	36	29	25	35	28	24	33	28	24	22																			

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

	0°	45°	90°
0°	15291	15291	15291
5°	15129	15146	15257
10°	14959	15012	15241
15°	14729	14853	15201
20°	14443	14657	15114
25°	14083	14413	15027
30°	13610	14149	14943
35°	13051	13868	14886
40°	12393	13542	14839
45°	11630	13189	14766
50°	10801	12832	14669
55°	9802	12395	14443
60°	8778	11880	13872
65°	7669	11222	12847
70°	6472	10384	11750
75°	5254	9415	11175
80°	3773	8714	11706
85°	2128	9057	14675



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	916.2	3.0
10°-20°	2628.3	8.6
20°-30°	3974.9	13.0
30°-40°	4771.9	15.6
40°-50°	4928.6	16.2
50°-60°	4434.2	14.5
60°-70°	3340.2	11.0
70°-80°	2017.0	6.6
80°-90°	990.3	3.2
90°-100°	564.1	1.8
100°-110°	754.0	2.5
110°-120°	583.3	1.9
120°-130°	292.0	1.0
130°-140°	148.0	0.5
140°-150°	82.0	0.3
150°-160°	43.6	0.1
160°-170°	18.7	0.1
170°-180°	5.7	0.0
0°-30°	7519.4	24.7
0°-40°	12291.3	40.3
0°-60°	21654.1	71.0
0°-90°	28001.7	91.8
90°-120°	1901.4	6.2
90°-150°	2423.5	7.9
90°-180°	2491.0	8.2
0°-180°	30493.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	9669	9669	9669	9669	9669	
5°	9607	9633	9621	9659	9647	913
15°	9219	9264	9307	9385	9394	2599
25°	8419	8512	8632	8767	8788	3873
35°	7198	7366	7669	7901	7948	4500
45°	5682	5968	6467	6820	6893	4386
55°	4025	4442	5116	5502	5568	3609
65°	2456	2958	3620	3800	3758	2440
75°	1157	1661	2097	2151	2130	1234
85°	241	636	1051	1195	1216	279
90°	4	270	631	796	831	18
95°	45	239	562	718	760	114
105°	661	735	805	724	709	628
115°	465	506	611	660	669	469
125°	236	254	331	373	378	222
135°	145	153	185	223	233	115
145°	118	117	122	142	149	74
155°	98	102	101	100	102	42
165°	64	65	65	66	66	18
175°	58	58	59	59	59	6
180°	58	58	58	58	58	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	9668.7	9668.7	9668.7	9668.7	9668.7
2.5°	9640.3	9664.0	9649.8	9680.6	9678.2
5°	9607.2	9633.3	9621.4	9659.3	9647.4
7.5°	9550.4	9578.8	9576.4	9619.0	9614.3
10°	9467.6	9498.3	9507.8	9564.6	9564.6
12.5°	9354.0	9394.3	9417.9	9486.5	9488.9
15°	9219.2	9264.1	9306.7	9384.8	9394.3
17.5°	9055.9	9112.6	9171.8	9261.8	9273.6
20°	8871.3	8935.2	9015.6	9110.3	9124.5
22.5°	8658.3	8734.0	8838.2	8949.4	8966.0
25°	8419.4	8511.6	8632.3	8767.1	8788.4
27.5°	8147.2	8253.6	8416.9	8568.4	8587.3
30°	7851.4	7976.8	8180.3	8360.1	8390.9
32.5°	7539.0	7683.4	7934.2	8135.4	8177.9
35°	7198.3	7366.3	7669.2	7901.1	7948.5
37.5°	6862.3	7046.8	7389.9	7655.0	7711.8
40°	6469.4	6699.0	7091.8	7385.2	7453.8
42.5°	6100.4	6348.8	6793.7	7113.1	7179.4
45°	5681.5	5967.8	6467.1	6819.7	6893.0
47.5°	5288.7	5598.7	6152.4	6516.8	6592.6
50°	4874.6	5215.4	5816.4	6197.3	6275.5
52.5°	4460.5	4827.2	5468.5	5863.7	5937.1
55°	4025.1	4441.6	5116.0	5501.7	5567.9
57.5°	3620.5	4060.6	4753.9	5120.7	5160.9
60°	3220.5	3677.2	4384.8	4706.6	4720.7
62.5°	2830.1	3310.5	4006.1	4261.8	4242.8
65°	2456.3	2957.8	3620.5	3800.3	3757.7
67.5°	2096.6	2614.8	3225.3	3341.2	3284.4
70°	1755.8	2281.2	2842.0	2901.1	2849.0
72.5°	1455.3	1964.1	2453.8	2503.6	2465.7
75°	1157.1	1661.2	2096.6	2151.0	2129.7
77.5°	877.9	1367.7	1767.7	1838.6	1843.3
80°	631.8	1100.4	1481.3	1592.6	1606.7
82.5°	416.5	854.2	1242.3	1384.3	1405.5
85°	241.4	636.5	1050.6	1195.0	1216.3
87.5°	104.2	459.1	844.8	974.9	1000.9
90°	3.5	270.2	630.6	796.3	831.4
92.5°	18.4	234.6	563.7	723.9	756.9
95°	44.9	239.3	561.7	717.8	760.0
97.5°	183.7	327.2	597.4	744.5	779.7
100°	363.7	489.9	646.2	760.3	784.5
102.5°	561.1	654.9	690.5	739.8	751.2
105°	660.9	735.2	804.6	724.2	708.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	542.4	590.8	696.3	743.9	731.6
115°	465.0	505.7	611.3	660.5	669.1
117.5°	401.2	429.9	526.3	576.6	584.5
120°	338.6	363.7	452.3	497.1	504.8
122.5°	286.5	306.1	388.6	430.9	436.3
125°	236.3	253.8	330.9	372.6	377.9
127.5°	200.9	213.4	282.8	324.5	329.9
130°	176.6	185.0	242.2	283.4	291.4
132.5°	160.1	167.4	210.4	249.2	260.4
135°	145.3	152.6	185.4	222.6	232.9
137.5°	134.0	141.3	163.7	198.6	208.9
140°	126.8	131.7	146.2	176.3	186.6
142.5°	121.3	123.9	131.2	158.2	166.1
145°	117.5	116.9	121.9	141.7	148.8
147.5°	111.5	113.2	114.9	126.2	133.3
150°	106.2	110.3	109.7	112.9	120.9
152.5°	102.8	106.0	105.4	103.9	108.6
155°	98.4	102.5	101.0	99.6	101.9
157.5°	72.2	73.0	73.9	74.8	74.8
160°	69.6	69.6	70.4	71.3	71.3
162.5°	66.9	66.9	67.8	68.7	68.7
165°	64.3	65.2	65.2	66.1	66.1
167.5°	62.6	62.6	63.5	63.5	64.3
170°	60.9	60.9	61.7	61.7	61.7
172.5°	59.1	60.0	60.0	60.0	60.0
175°	58.3	58.3	59.1	59.1	59.1
177.5°	57.4	58.3	58.3	58.3	58.3
180°	58.3	58.3	58.3	58.3	58.3



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	667.0	735.6	829.4	768.9	705.1
110°	612.2	678.3	780.0	794.1	745.9



(END OF REPORT)