

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: P830413

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

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P830413  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-1)  
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  
Description: 36000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 4000K LEDS AND MEDIUM FROSTED LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

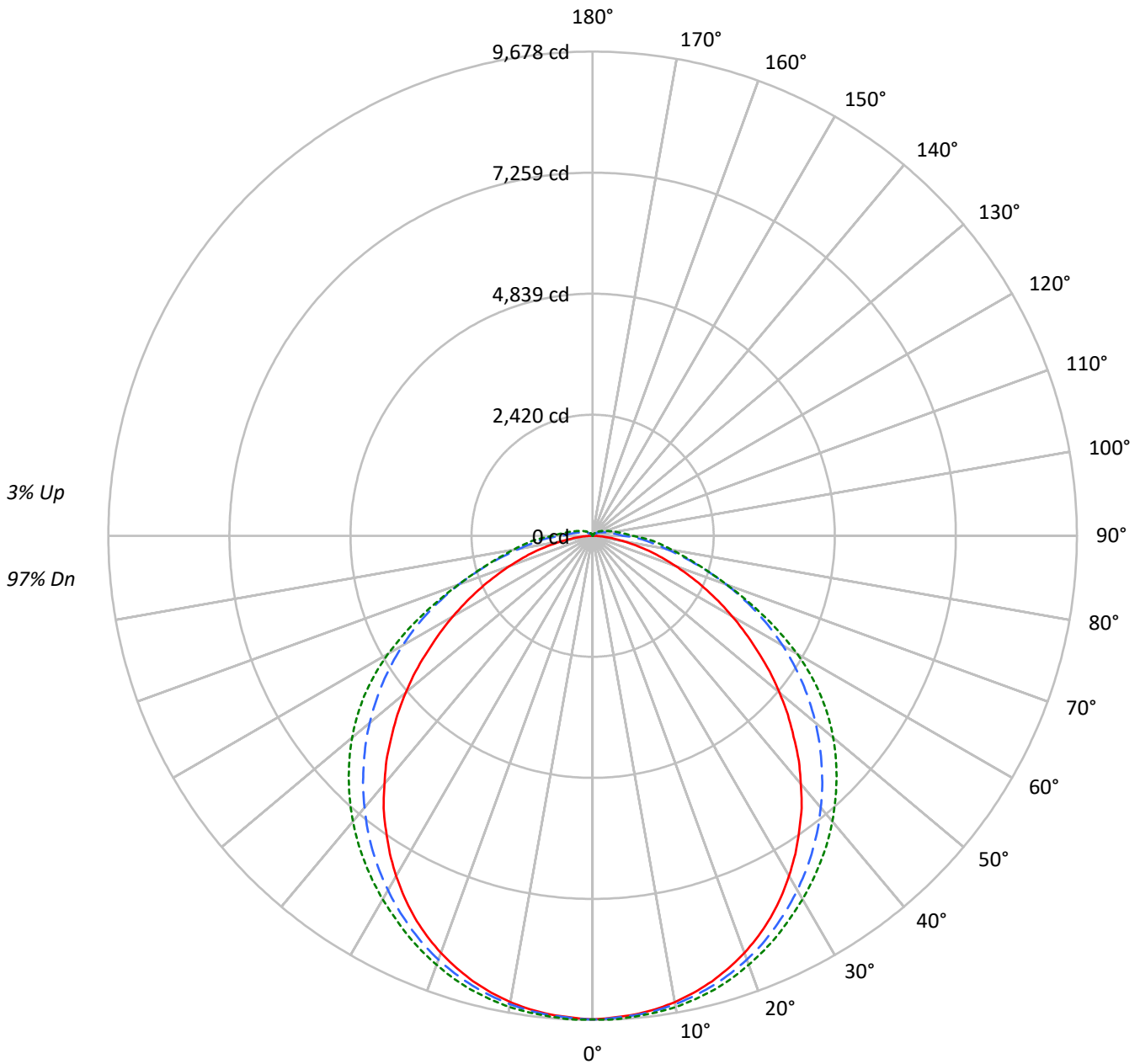
Lumens per Lamp: N/A  
Luminaire Lumens: 28937.0 lumens  
Efficiency: N/A  
Efficacy: 137.1 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 211  
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				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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	99	97
1	107	102	98	94	104	100	96	92	95	91	88	90	88	85	86	84	82	82	82	82	80
2	98	89	82	76	95	87	80	75	83	77	73	79	74	71	75	72	68	68	68	68	66
3	89	78	70	63	86	76	69	62	73	66	61	70	64	59	67	62	58	58	58	58	56
4	81	69	60	53	79	68	59	53	65	57	52	62	56	51	59	54	50	50	50	50	47
5	75	62	53	46	72	60	52	46	58	50	45	56	49	44	53	48	43	43	43	43	41
6	69	56	47	40	67	54	46	40	52	45	39	50	44	39	48	43	38	38	38	38	36
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	44	38	34	34	34	34	32
8	60	46	37	31	58	45	37	31	43	36	31	42	35	31	41	35	30	30	30	30	28
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	37	32	27	27	27	27	25
10	52	39	31	26	51	38	31	26	37	30	25	36	29	25	35	29	25	25	25	25	23

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

	0°	45°	90°
0°	15291	15291	15291
5°	15193	15146	15192
10°	15086	15013	15113
15°	14918	14853	15009
20°	14694	14657	14856
25°	14396	14413	14701
30°	13982	14149	14545
35°	13481	13868	14411
40°	12880	13543	14279
45°	12170	13189	14110
50°	11395	12832	13905
55°	10441	12395	13559
60°	9464	11880	12868
65°	8397	11222	11732
70°	7242	10383	10501
75°	6071	9415	9671
80°	4603	8714	9594
85°	2913	9057	10721



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	916.2	3.2
10°-20°	2628.4	9.1
20°-30°	3974.9	13.7
30°-40°	4771.9	16.5
40°-50°	4928.6	17.0
50°-60°	4434.2	15.3
60°-70°	3340.2	11.5
70°-80°	2016.9	7.0
80°-90°	986.4	3.4
90°-100°	415.2	1.4
100°-110°	237.0	0.8
110°-120°	139.1	0.5
120°-130°	78.7	0.3
130°-140°	41.4	0.1
140°-150°	20.2	0.1
150°-160°	7.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	7519.4	26.0
0°-40°	12291.4	42.5
0°-60°	21654.2	74.8
0°-90°	27997.9	96.8
90°-120°	791.4	2.7
90°-150°	931.6	3.2
90°-180°	939.0	3.2
0°-180°	28937.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	9669	9669	9669	9669	9669	
5°	9607	9633	9621	9659	9648	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°	0	248	601	757	788	15
95°	12	168	450	573	594	10
105°	17	97	260	341	355	17
115°	19	54	161	215	225	19
125°	19	26	97	140	147	17
135°	17	21	50	85	95	13
145°	24	21	24	43	50	14
155°	24	26	24	21	24	7
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	9668.8	9668.8	9668.8	9668.8	9668.8
2.5°	9640.4	9664.0	9649.8	9680.6	9678.2
5°	9607.2	9633.3	9621.4	9659.3	9647.5
7.5°	9550.5	9578.9	9576.5	9619.1	9614.3
10°	9467.6	9498.4	9507.9	9564.7	9564.7
12.5°	9354.1	9394.3	9417.9	9486.6	9488.9
15°	9219.2	9264.1	9306.7	9384.8	9394.3
17.5°	9055.9	9112.7	9171.8	9261.8	9273.6
20°	8871.3	8935.2	9015.7	9110.3	9124.5
22.5°	8658.4	8734.1	8838.2	8949.4	8966.0
25°	8419.4	8511.6	8632.3	8767.2	8788.5
27.5°	8147.2	8253.7	8417.0	8568.4	8587.4
30°	7851.4	7976.9	8180.4	8360.2	8391.0
32.5°	7539.1	7683.4	7934.3	8135.4	8178.0
35°	7198.3	7366.3	7669.2	7901.1	7948.5
37.5°	6862.3	7046.9	7390.0	7655.0	7711.8
40°	6469.5	6699.0	7091.9	7385.3	7453.9
42.5°	6100.4	6348.8	6793.7	7113.1	7179.4
45°	5681.5	5967.9	6467.1	6819.7	6893.1
47.5°	5288.7	5598.7	6152.4	6516.8	6592.6
50°	4874.6	5215.4	5816.4	6197.4	6275.5
52.5°	4460.5	4827.3	5468.6	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°	3220.6	3677.3	4384.8	4706.6	4720.8
62.5°	2830.1	3310.5	4006.2	4261.7	4242.8
65°	2456.2	2957.9	3620.5	3800.3	3757.7
67.5°	2096.6	2614.8	3225.3	3341.2	3284.4
70°	1755.8	2281.1	2841.9	2901.1	2849.0
72.5°	1455.3	1964.0	2453.9	2503.6	2465.7
75°	1157.1	1661.2	2096.6	2151.0	2129.7
77.5°	877.9	1367.7	1767.6	1838.6	1843.4
80°	631.8	1100.3	1481.3	1592.5	1606.7
82.5°	416.5	854.2	1242.3	1384.3	1405.6
85°	241.4	636.5	1050.6	1195.0	1216.3
87.5°	104.1	459.1	844.8	974.9	1001.0
90°	0.0	248.5	601.0	757.2	788.0
92.5°	7.1	205.9	515.9	657.8	683.9
95°	11.8	168.0	449.6	572.6	593.9
97.5°	14.2	142.0	390.4	499.3	520.6
100°	14.2	123.0	338.4	437.8	456.7
102.5°	14.2	108.9	295.8	383.3	399.9
105°	16.6	97.0	260.3	340.7	354.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	18.9	63.9	179.8	241.4	250.8
115°	18.9	54.4	160.9	215.3	224.8
117.5°	21.3	47.3	142.0	194.0	201.1
120°	21.3	40.2	125.4	172.7	182.2
122.5°	21.3	33.1	111.2	156.2	163.3
125°	18.9	26.0	97.0	139.6	146.7
127.5°	16.6	21.3	82.8	125.4	132.5
130°	16.6	18.9	71.0	111.2	118.3
132.5°	16.6	21.3	59.2	97.0	106.5
135°	16.6	21.3	49.7	85.2	94.7
137.5°	16.6	21.3	40.2	73.4	82.8
140°	18.9	21.3	33.1	61.5	71.0
142.5°	21.3	21.3	26.0	52.1	59.2
145°	23.7	21.3	23.7	42.6	49.7
147.5°	23.7	23.7	23.7	33.1	40.2
150°	23.7	26.0	23.7	26.0	33.1
152.5°	23.7	26.0	23.7	21.3	26.0
155°	23.7	26.0	23.7	21.3	23.7
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	16.6	85.2	229.5	302.9	314.7
110°	16.6	75.7	203.5	269.8	281.6



(END OF REPORT)