

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: P830337

Luminaire Tested: **OHBL-36HE-MFL-UNV-L840-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P830337  
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-36HE-MFL-UNV-L840-CD  
Description: 36000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND MEDIUM FROSTED LENS  
Light Source: -  
Ballast/Driver: -

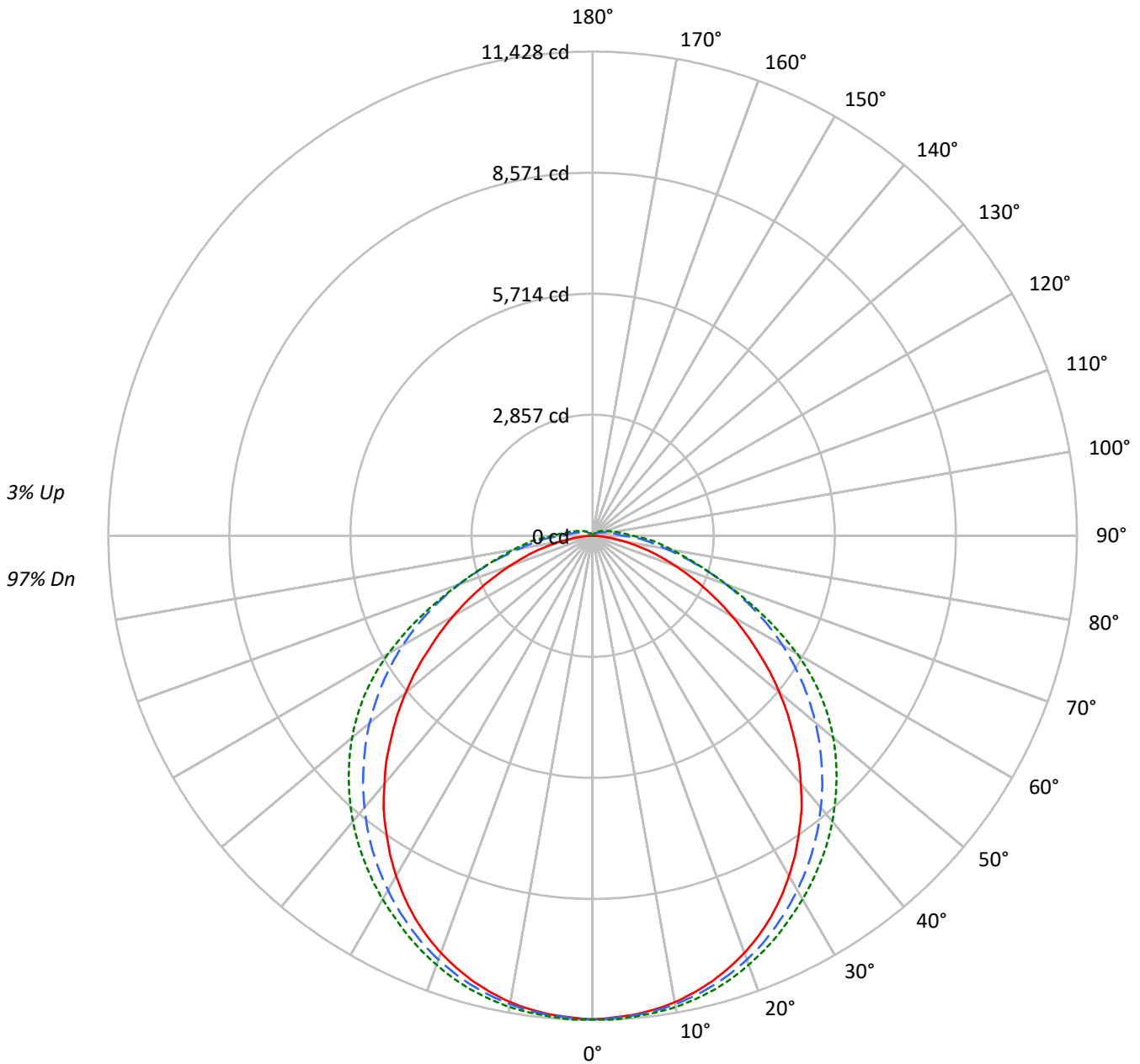
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 34170.0 lumens  
Efficiency: N/A  
Efficacy: 161.2 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): 212  
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	86	84	82	80
2	98	89	82	76	95	87	80	75	83	77	73	79	74	71	75	72	68	75	72	68	66
3	89	78	70	63	86	76	69	62	73	66	61	70	64	59	67	62	58	67	62	58	56
4	81	69	60	53	79	68	59	53	65	57	52	62	56	51	59	54	50	59	54	50	47
5	75	62	53	46	72	60	52	46	58	50	45	56	49	44	53	48	43	53	48	43	41
6	69	56	47	40	67	54	46	40	52	45	39	50	44	39	48	43	38	48	43	38	36
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	44	38	34	44	38	34	32
8	60	46	37	31	58	45	37	31	43	36	31	42	35	31	41	35	30	41	35	30	28
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	37	32	27	37	32	27	25
10	52	39	31	26	51	38	31	26	37	30	25	36	29	25	35	29	25	35	29	25	23

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

	0°	45°	90°
0°	18056	18056	18056
5°	17941	17885	17940
10°	17815	17727	17846
15°	17616	17539	17723
20°	17352	17308	17542
25°	16999	17020	17359
30°	16510	16707	17176
35°	15919	16376	17017
40°	15209	15992	16861
45°	14371	15574	16662
50°	13455	15153	16420
55°	12329	14636	16011
60°	11175	14028	15195
65°	9916	13251	13853
70°	8551	12261	12401
75°	7170	11117	11419
80°	5436	10290	11329
85°	3439	10695	12660



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1081.8	3.2
10°-20°	3103.7	9.1
20°-30°	4693.8	13.7
30°-40°	5634.9	16.5
40°-50°	5819.9	17.0
50°-60°	5236.1	15.3
60°-70°	3944.3	11.5
70°-80°	2381.7	7.0
80°-90°	1164.8	3.4
90°-100°	490.3	1.4
100°-110°	279.9	0.8
110°-120°	164.3	0.5
120°-130°	92.9	0.3
130°-140°	48.9	0.1
140°-150°	23.8	0.1
150°-160°	8.8	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	8879.3	26.0
0°-40°	14514.2	42.5
0°-60°	25570.2	74.8
0°-90°	33061.0	96.8
90°-120°	934.5	2.7
90°-150°	1100.1	3.2
90°-180°	1109.0	3.2
0°-180°	34170.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	11417	11417	11417	11417	11417	
5°	11345	11375	11361	11406	11392	###
15°	10886	10940	10990	11082	11093	3069
25°	9942	10051	10193	10353	10378	4573
35°	8500	8698	9056	9330	9386	5314
45°	6709	7047	7637	8053	8140	5179
55°	4753	5245	6041	6497	6575	4261
65°	2900	3493	4275	4488	4437	2882
75°	1366	1962	2476	2540	2515	1458
85°	285	752	1241	1411	1436	329
90°	0	293	710	894	930	18
95°	14	198	531	676	701	12
105°	20	115	307	402	419	20
115°	22	64	190	254	266	23
125°	22	31	115	165	173	20
135°	20	25	59	101	112	15
145°	28	25	28	50	59	17
155°	28	31	28	25	28	9
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°	11417.3	11417.3	11417.3	<i>11417.3</i>	11417.3
2.5°	<i>11383.8</i>	<i>11411.7</i>	<i>11394.9</i>	<i>11431.3</i>	<i>11428.5</i>
5°	11344.6	11375.4	11361.4	<i>11406.1</i>	11392.1
7.5°	11277.6	11311.1	11308.3	<i>11358.6</i>	11353.0
10°	11179.8	11216.1	11227.3	<i>11294.3</i>	11294.3
12.5°	11045.6	11093.2	11121.1	<i>11202.1</i>	11204.9
15°	10886.4	10939.5	10989.8	<i>11082.0</i>	11093.2
17.5°	10693.6	10760.6	10830.5	<i>10936.7</i>	10950.6
20°	10475.6	10551.1	10646.1	<i>10757.8</i>	10774.6
22.5°	10224.1	10313.6	10436.5	<i>10567.8</i>	10587.4
25°	9941.9	10050.9	10193.4	<i>10352.7</i>	10377.8
27.5°	9620.6	9746.3	9939.1	<i>10118.0</i>	10140.3
30°	9271.3	9419.4	9659.7	<i>9872.1</i>	9908.4
32.5°	8902.5	9072.9	9369.1	<i>9606.6</i>	9656.9
35°	8500.1	8698.5	9056.1	<i>9330.0</i>	9385.9
37.5°	8103.3	8321.3	8726.4	<i>9039.4</i>	9106.4
40°	7639.5	7910.5	8374.4	<i>8720.8</i>	8801.9
42.5°	7203.6	7497.0	8022.3	<i>8399.5</i>	8477.7
45°	6709.0	7047.1	7636.7	<i>8053.0</i>	8139.6
47.5°	6245.1	6611.2	7265.0	<i>7695.4</i>	7784.8
50°	5756.1	6158.5	6868.3	<i>7318.1</i>	7410.3
52.5°	5267.2	5700.3	6457.5	<i>6924.1</i>	7010.8
55°	4753.0	5244.8	6041.2	<i>6496.6</i>	6574.9
57.5°	4275.2	4794.9	5613.6	<i>6046.7</i>	6094.2
60°	3803.0	4342.3	5177.7	<i>5557.8</i>	5574.5
62.5°	3341.9	3909.1	4730.7	<i>5032.4</i>	5010.1
65°	2900.4	3492.8	4275.2	<i>4487.6</i>	4437.3
67.5°	2475.7	3087.6	3808.6	<i>3945.5</i>	3878.4
70°	2073.3	2693.7	3355.9	<i>3425.7</i>	3364.3
72.5°	1718.5	2319.2	2897.6	<i>2956.3</i>	2911.6
75°	1366.4	1961.6	2475.7	<i>2540.0</i>	2514.8
77.5°	1036.7	1615.1	2087.3	<i>2171.1</i>	2176.7
80°	746.1	1299.3	1749.2	<i>1880.5</i>	1897.3
82.5°	491.8	1008.7	1467.0	<i>1634.6</i>	1659.8
85°	285.0	751.7	1240.6	<i>1411.1</i>	1436.2
87.5°	122.9	542.1	997.5	<i>1151.2</i>	1182.0
90°	0.0	293.4	709.7	<i>894.2</i>	930.5
92.5°	8.4	243.1	609.1	<i>776.8</i>	807.5
95°	14.0	198.4	530.9	<i>676.2</i>	701.4
97.5°	16.8	167.7	461.1	<i>589.6</i>	614.7
100°	16.8	145.3	399.6	<i>516.9</i>	539.3
102.5°	16.8	128.5	349.3	<i>452.7</i>	472.2
105°	19.6	114.6	307.4	<i>402.4</i>	419.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	22.4	75.4	212.4	285.0	296.2
115°	22.4	64.3	190.0	254.3	265.5
117.5°	25.1	55.9	167.7	229.1	237.5
120°	25.1	47.5	148.1	204.0	215.2
122.5°	25.1	39.1	131.3	184.4	192.8
125°	22.4	30.7	114.6	164.9	173.2
127.5°	19.6	25.1	97.8	148.1	156.5
130°	19.6	22.4	83.8	131.3	139.7
132.5°	19.6	25.1	69.9	114.6	125.7
135°	19.6	25.1	58.7	100.6	111.8
137.5°	19.6	25.1	47.5	86.6	97.8
140°	22.4	25.1	39.1	72.7	83.8
142.5°	25.1	25.1	30.7	61.5	69.9
145°	27.9	25.1	27.9	50.3	58.7
147.5°	27.9	27.9	27.9	39.1	47.5
150°	27.9	30.7	27.9	30.7	39.1
152.5°	27.9	30.7	27.9	25.1	30.7
155°	27.9	30.7	27.9	25.1	27.9
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°	19.6	100.6	271.0	357.7	371.6
110°	19.6	89.4	240.3	318.5	332.5



(END OF REPORT)