

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: P830313

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

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P830313  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-200-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-36HE-A-UNV-L840-CD  
Description: 36000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND AISLE LENS  
Light Source: -  
Ballast/Driver: -

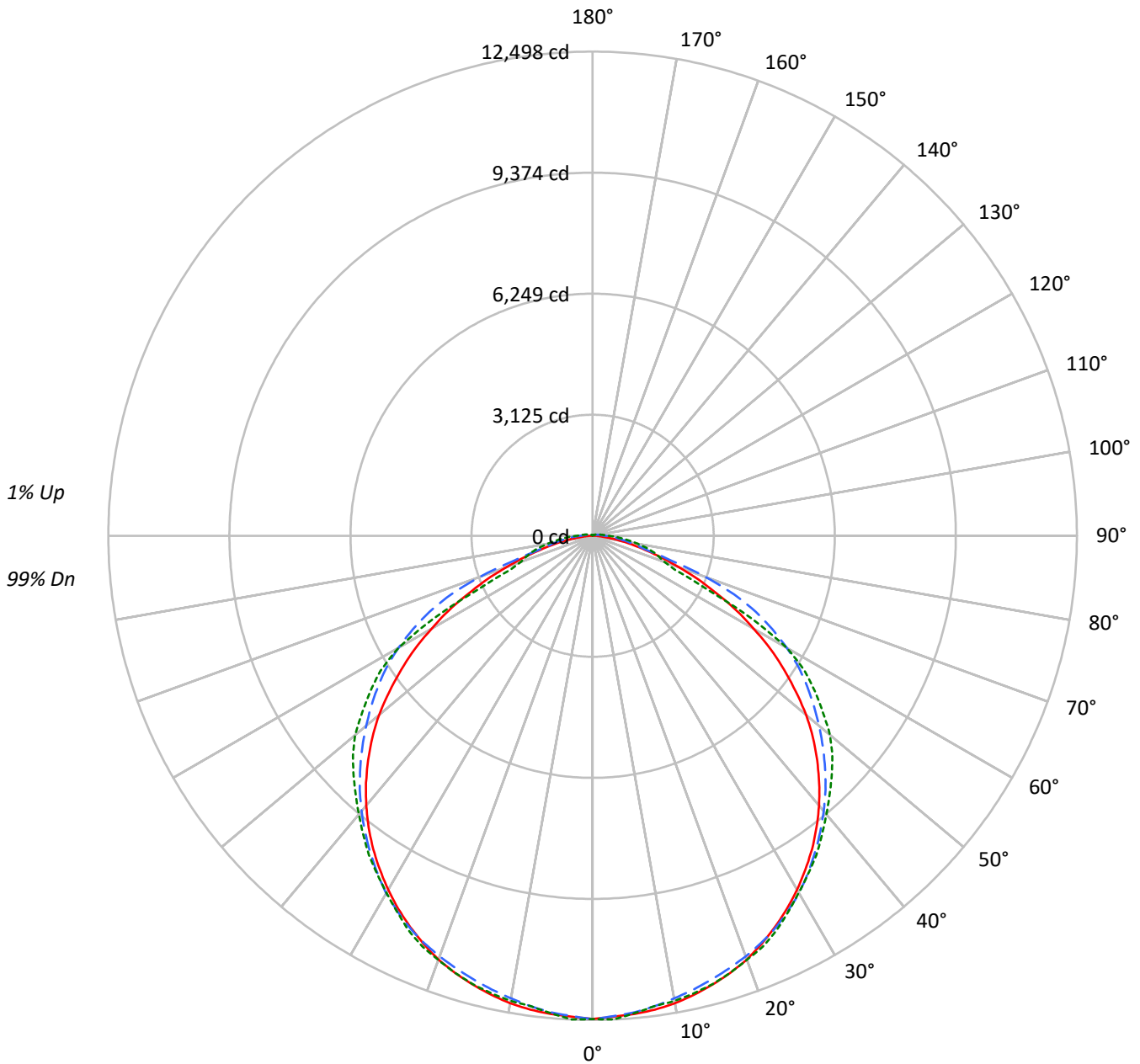
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 35254.9 lumens  
Efficiency: N/A  
Efficacy: 166.3 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39  
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									
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	119	119	119	119	116	116	116	116	110	110	110	106	106	106	101	101	101				99																
1	109	104	100	96	106	102	98	95	97	94	91	93	91	88	90	87	86				83																
2	99	91	84	79	96	89	83	78	85	80	76	82	78	74	79	75	72				70																
3	91	80	72	66	88	79	71	65	75	69	64	72	67	63	70	65	61				59																
4	83	71	62	56	81	70	62	55	67	60	54	65	59	54	62	57	53				51																
5	76	64	55	48	74	62	54	48	60	53	47	58	52	46	56	50	46				44																
6	70	57	48	42	68	56	48	42	54	47	41	52	46	41	51	45	40				38																
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36				34																
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	42	36	32				30																
9	57	43	35	30	55	43	35	29	41	34	29	40	34	29	39	33	29				27																
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	36	30	26				24																

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

	0°	45°	90°
0°	19726	19726	19726
5°	19597	19440	19480
10°	19525	19145	19264
15°	19401	18925	19135
20°	19277	18786	18966
25°	19045	18646	18798
30°	18792	18426	18442
35°	18490	18077	18246
40°	18096	17716	17979
45°	17551	17298	17861
50°	16813	16823	17719
55°	15639	16355	17058
60°	14103	15671	15770
65°	12098	14400	9995
70°	9744	11241	7246
75°	7305	6673	7354
80°	5085	5548	7021
85°	2895	5085	6582



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1176.1	3.3
10°-20°	3372.5	9.6
20°-30°	5150.9	14.6
30°-40°	6249.8	17.7
40°-50°	6550.4	18.6
50°-60°	5935.7	16.8
60°-70°	3979.6	11.3
70°-80°	1787.0	5.1
80°-90°	648.5	1.8
90°-100°	195.2	0.6
100°-110°	92.1	0.3
110°-120°	46.1	0.1
120°-130°	25.5	0.1
130°-140°	17.5	0.0
140°-150°	11.8	0.0
150°-160°	8.7	0.0
160°-170°	5.6	0.0
170°-180°	1.8	0.0
0°-30°	9699.6	27.5
0°-40°	15949.4	45.2
0°-60°	28435.5	80.7
0°-90°	34850.6	98.9
90°-120°	333.4	0.9
90°-150°	388.2	1.1
90°-180°	404.0	1.1
0°-180°	35254.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	12473	12473	12473	12473	12473	
5°	12392	12435	12349	12387	12370	###
15°	11990	11943	11858	11963	11977	3385
25°	11139	11090	11168	11270	11238	5134
35°	9873	9896	9997	10103	10064	6171
45°	8194	8327	8482	8698	8726	6312
55°	6029	6320	6751	7021	7005	5382
65°	3538	4092	4646	3921	3201	3526
75°	1392	2020	1486	1520	1620	1522
85°	240	460	590	712	747	293
90°	2	153	305	382	400	14
95°	2	96	209	254	262	2
105°	7	42	103	124	130	8
115°	14	22	52	67	70	13
125°	13	14	32	38	40	13
135°	16	18	20	29	31	13
145°	16	18	18	20	22	11
155°	18	20	20	20	18	8
165°	20	20	20	20	20	6
175°	20	20	18	16	16	2
180°	18	18	18	18	18	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	12473.2	12473.2	12473.2	12473.2	12473.2
2.5°	12422.7	12475.1	12410.1	12480.5	12498.5
5°	12392.1	12435.4	12348.8	12386.7	12370.4
7.5°	12336.2	12350.6	12247.8	12278.5	12246.0
10°	12253.2	12246.0	12125.2	12184.7	12191.9
12.5°	12130.6	12108.9	12000.7	12090.9	12092.7
15°	11989.9	11943.0	11858.2	11962.8	11977.3
17.5°	11827.6	11766.3	11710.4	11845.6	11824.0
20°	11638.2	11566.1	11555.2	11703.1	11649.0
22.5°	11403.8	11347.8	11373.1	11513.8	11479.5
25°	11138.6	11089.9	11167.5	11270.3	11237.8
27.5°	10859.1	10830.2	10918.6	10998.0	10934.8
30°	10552.5	10536.3	10653.5	10718.4	10639.1
32.5°	10218.8	10224.2	10336.1	10424.4	10350.5
35°	9872.6	9896.0	9997.0	10103.4	10063.7
37.5°	9492.0	9544.3	9645.3	9766.1	9724.7
40°	9089.8	9165.6	9277.4	9423.5	9385.6
42.5°	8655.2	8750.8	8895.0	9057.4	9053.7
45°	8193.5	8326.9	8482.0	8698.4	8725.5
47.5°	7713.7	7863.4	8060.0	8348.6	8390.0
50°	7192.5	7380.1	7625.3	7971.6	7996.9
52.5°	6611.8	6867.9	7192.5	7524.3	7493.7
55°	6029.2	6319.6	6750.6	7021.2	7004.9
57.5°	5448.5	5774.9	6297.9	6490.9	6489.1
60°	4799.2	5212.2	5783.9	5930.0	5785.7
62.5°	4198.6	4642.3	5235.7	5129.3	4635.1
65°	3538.5	4092.2	4645.9	3920.9	3201.3
67.5°	2952.4	3529.5	3946.1	2685.5	2299.5
70°	2362.6	2999.3	3076.8	1992.9	1965.9
72.5°	1839.6	2517.7	2122.8	1706.1	1792.7
75°	1392.3	2020.0	1486.1	1520.4	1619.6
77.5°	1015.4	1551.0	1156.1	1332.8	1414.0
80°	698.0	1098.4	943.2	1120.0	1175.9
82.5°	438.3	725.0	755.7	901.8	959.5
85°	239.9	459.9	589.8	712.4	746.7
87.5°	99.2	277.7	450.9	550.1	578.9
90°	1.8	153.3	304.8	382.3	400.4
92.5°	1.8	117.2	248.9	308.4	321.0
95°	1.8	95.6	209.2	254.3	261.5
97.5°	3.6	75.7	174.9	211.0	218.2
100°	5.4	63.1	146.1	176.7	182.2
102.5°	7.2	50.5	122.6	147.9	153.3
105°	7.2	41.5	102.8	124.4	129.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	12.6	25.2	61.3	77.6	81.2
115°	14.4	21.6	52.3	66.7	70.3
117.5°	14.4	18.0	45.1	55.9	59.5
120°	14.4	16.2	39.7	48.7	50.5
122.5°	14.4	14.4	34.3	43.3	45.1
125°	12.6	14.4	32.5	37.9	39.7
127.5°	14.4	14.4	28.9	34.3	36.1
130°	14.4	16.2	25.2	32.5	32.5
132.5°	16.2	18.0	23.4	30.7	30.7
135°	16.2	18.0	19.8	28.9	30.7
137.5°	18.0	18.0	18.0	27.1	28.9
140°	18.0	18.0	16.2	23.4	25.2
142.5°	16.2	18.0	16.2	21.6	23.4
145°	16.2	18.0	18.0	19.8	21.6
147.5°	18.0	18.0	18.0	18.0	19.8
150°	18.0	18.0	18.0	18.0	18.0
152.5°	18.0	18.0	18.0	18.0	18.0
155°	18.0	19.8	19.8	19.8	18.0
157.5°	18.0	19.8	19.8	19.8	19.8
160°	18.0	19.8	19.8	19.8	19.8
162.5°	19.8	19.8	19.8	19.8	19.8
165°	19.8	19.8	19.8	19.8	19.8
167.5°	19.8	21.6	19.8	19.8	19.8
170°	19.8	19.8	19.8	18.0	18.0
172.5°	19.8	19.8	19.8	18.0	18.0
175°	19.8	19.8	18.0	16.2	16.2
177.5°	21.6	19.8	18.0	16.2	14.4
180°	18.0	18.0	18.0	18.0	18.0



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	9.0	34.3	88.4	106.4	110.0
110°	10.8	28.9	73.9	90.2	93.8



(END OF REPORT)