

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: P828696

Luminaire Tested: **OHBL-36HE-NL-UNV-L950-CD-UPL36**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P828696  
REPORT IS A COMBINATION OF REPORTS P826315 AND G3-2310-221-2  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-36HE-NL-UNV-L950-CD-UPL36  
Description:  
Light Source: -  
Ballast/Driver: -

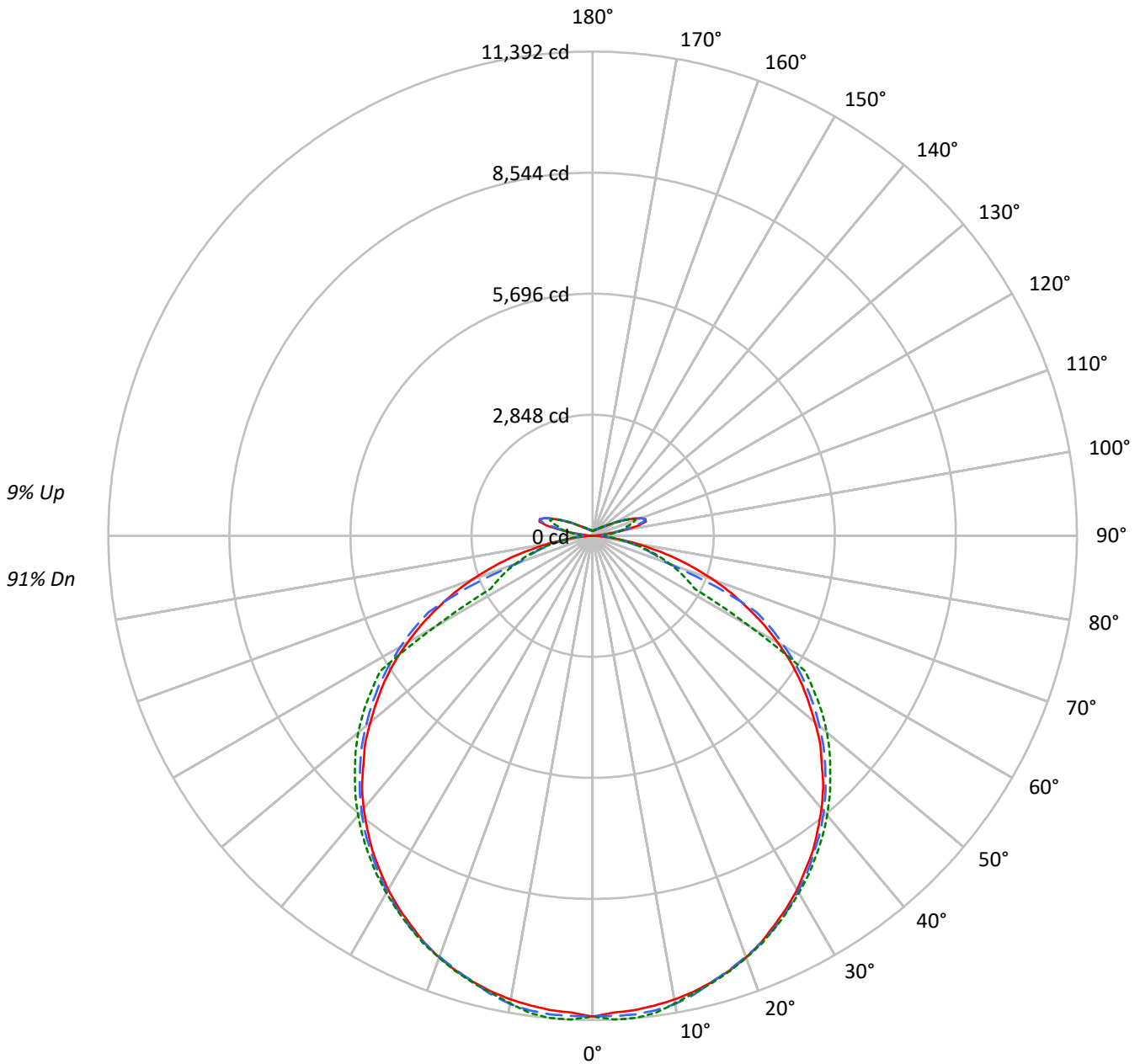
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 34866.5 lumens  
Efficiency: N/A  
Efficacy: 144.8 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.1')  
CIE Type: Direct  
  
Input Watts (W): 240.8  
Input Voltage (V): NR  
Input Current (Ain): 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	106	106	106	99	99	99	93	93	93	91																			
1	107	103	99	95	103	99	96	92	93	91	88	88	86	84	83	81	79	77																			
2	98	90	83	78	94	87	81	76	82	77	73	77	73	70	73	70	67	64																			
3	89	79	71	65	86	77	69	64	72	66	61	68	63	59	65	61	57	54																			
4	82	70	61	55	79	68	60	54	64	58	52	61	55	51	58	53	49	47																			
5	75	62	54	47	72	61	53	47	58	51	45	55	49	44	52	47	43	40																			
6	69	56	47	41	67	55	47	41	52	45	40	49	43	38	47	42	37	35																			
7	64	51	42	36	62	50	42	36	47	40	35	45	39	34	43	37	33	31																			
8	60	46	38	32	58	45	37	32	43	36	31	41	35	30	39	34	30	28																			
9	56	42	34	29	54	41	34	29	40	33	28	38	32	27	36	31	27	25																			
10	52	39	31	26	50	38	31	26	37	30	25	35	29	25	34	28	24	23																			

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

	0°	45°	90°
0°	17885	17885	17885
5°	17700	17857	18041
10°	17619	17779	17855
15°	17528	17513	17699
20°	17412	17371	17611
25°	17197	17266	17530
30°	17015	17080	17454
35°	16794	16859	17386
40°	16526	16650	17334
45°	16150	16356	17226
50°	15748	16025	17158
55°	15259	15604	16866
60°	14520	14978	13030
65°	13456	14173	8679
70°	12085	7297	8298
75°	10063	6609	7736
80°	7105	5549	6774
85°	2884	4482	5860



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1074.4	3.1
10°-20°	3076.4	8.8
20°-30°	4681.0	13.4
30°-40°	5691.4	16.3
40°-50°	5984.2	17.2
50°-60°	5464.3	15.7
60°-70°	3502.9	10.0
70°-80°	1654.7	4.7
80°-90°	465.5	1.3
90°-100°	360.7	1.0
100°-110°	1116.7	3.2
110°-120°	905.9	2.6
120°-130°	424.4	1.2
130°-140°	214.9	0.6
140°-150°	125.6	0.4
150°-160°	73.7	0.2
160°-170°	38.3	0.1
170°-180°	11.7	0.0
0°-30°	8831.7	25.3
0°-40°	14523.1	41.7
0°-60°	25971.7	74.5
0°-90°	31594.8	90.6
90°-120°	2383.3	6.8
90°-150°	3148.1	9.0
90°-180°	3272.0	9.4
0°-180°	34866.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	11309	11309	11309	11309	11309	
5°	11204	11248	11305	11367	11391	###
15°	10865	10946	10863	10879	10887	3067
25°	10111	10126	10162	10178	10170	4665
35°	9037	8984	9087	9198	9172	5648
45°	7622	7608	7737	7920	7906	5891
55°	5973	5927	6128	6332	6348	5327
65°	4024	4024	4258	2443	2451	3990
75°	1988	2026	1316	1385	1391	2096
85°	260	329	411	444	421	384
90°	7	154	237	279	276	16
95°	60	165	275	359	373	204
105°	1294	1303	1237	928	839	1231
115°	905	897	910	910	890	912
125°	441	456	467	459	450	415
135°	261	267	274	276	277	206
145°	190	194	198	201	202	121
155°	153	156	158	160	160	72
165°	131	133	134	135	136	38
175°	120	120	121	121	122	12
180°	118	118	118	118	118	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	11309.3	11309.3	11309.3	11309.3	<i>11309.3</i>
2.5°	<i>11229.8</i>	<i>11267.7</i>	<i>11309.3</i>	<i>11362.9</i>	<i>11392.5</i>
5°	11204.0	11247.7	11305.3	11366.9	<i>11390.6</i>
7.5°	11148.5	11209.9	11265.6	11309.3	<i>11323.1</i>
10°	11079.0	11152.5	11184.3	11180.3	<i>11170.4</i>
12.5°	10985.8	11063.2	11053.4	11007.6	<i>11015.6</i>
15°	10864.8	10946.0	10862.8	10878.6	<i>10886.6</i>
17.5°	10721.8	10801.3	10704.0	10735.7	<i>10737.8</i>
20°	10555.2	10614.7	10539.3	10565.1	<i>10565.1</i>
22.5°	10354.8	10396.4	10364.7	10382.6	<i>10386.6</i>
25°	10110.7	10126.4	10162.2	10178.2	<i>10170.2</i>
27.5°	9876.6	9856.7	9926.2	9963.8	<i>9943.8</i>
30°	9616.6	9584.8	9666.1	9727.7	<i>9704.0</i>
32.5°	9318.8	9299.1	9392.3	9465.7	<i>9451.8</i>
35°	9037.1	8983.5	9086.7	9197.9	<i>9171.9</i>
37.5°	8703.7	8671.9	8789.0	8906.2	<i>8892.3</i>
40°	8378.2	8324.7	8457.6	8596.5	<i>8582.6</i>
42.5°	8029.1	7965.4	8110.4	8277.2	<i>8261.2</i>
45°	7622.1	7608.2	7737.2	7919.8	<i>7905.9</i>
47.5°	7261.2	7191.6	7372.1	7548.8	<i>7564.8</i>
50°	6824.4	6798.7	6963.5	7177.7	<i>7193.5</i>
52.5°	6397.9	6380.0	6552.5	6768.9	<i>6796.6</i>
55°	5973.1	5927.4	6127.8	6332.3	<i>6348.2</i>
57.5°	5518.8	5471.2	5675.6	5897.8	<i>5931.4</i>
60°	5032.4	4986.9	5211.0	5417.5	<i>4308.3</i>
62.5°	4546.2	4514.6	4748.8	3363.6	<i>2710.8</i>
65°	4024.4	4024.4	4258.5	2442.8	<i>2450.8</i>
67.5°	3536.4	3504.6	3175.2	2194.7	<i>2194.7</i>
70°	3012.4	3024.4	1829.5	1923.0	<i>1924.9</i>
72.5°	2486.5	2530.2	1579.7	1654.9	<i>1658.9</i>
75°	1988.3	2026.2	1315.6	1385.2	<i>1391.0</i>
77.5°	1460.6	1123.1	1057.6	1111.4	<i>1113.3</i>
80°	1025.9	708.4	809.7	861.2	<i>855.3</i>
82.5°	599.2	496.0	593.3	631.1	<i>629.0</i>
85°	259.9	329.4	410.7	444.5	<i>420.6</i>
87.5°	83.2	204.4	255.9	275.9	<i>273.8</i>
90°	7.0	153.7	237.4	278.8	<i>275.9</i>
92.5°	21.7	139.4	225.8	282.0	<i>289.1</i>
95°	59.8	165.4	274.6	359.3	<i>373.2</i>
97.5°	329.2	391.1	396.7	501.4	<i>526.3</i>
100°	702.2	750.1	617.1	659.1	<i>678.6</i>
102.5°	1103.7	1136.3	914.0	788.6	<i>764.6</i>
105°	1294.1	1303.4	1236.8	928.1	<i>839.3</i>



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1064.0	1070.6	1066.9	1057.6	1015.7
115°	905.4	897.2	910.0	910.2	889.6
117.5°	766.0	757.3	764.2	760.8	751.2
120°	644.3	644.3	653.0	640.8	633.8
122.5°	533.8	546.0	552.1	543.4	532.1
125°	440.8	456.5	466.9	459.1	450.4
127.5°	378.2	383.4	395.6	391.2	391.2
130°	325.2	332.1	341.7	343.4	341.7
132.5°	288.7	295.6	304.3	306.9	309.5
135°	260.8	266.9	273.9	276.5	277.4
137.5°	238.2	243.4	248.7	253.0	253.9
140°	219.1	224.3	229.5	233.0	233.0
142.5°	203.5	208.7	213.0	215.6	215.6
145°	189.5	193.9	198.2	200.8	201.7
147.5°	179.1	182.6	186.9	187.8	188.7
150°	169.5	172.2	175.6	177.4	178.2
152.5°	160.8	163.5	166.9	167.8	168.7
155°	153.0	155.6	158.2	160.0	160.0
157.5°	146.1	148.7	151.3	152.2	152.2
160°	140.8	142.6	145.2	145.2	146.1
162.5°	135.6	137.4	139.1	140.0	140.8
165°	131.3	133.0	133.9	134.8	135.6
167.5°	127.8	128.7	129.5	130.4	130.4
170°	124.3	125.2	126.1	126.1	126.9
172.5°	121.7	122.6	123.5	123.5	123.5
175°	120.0	120.0	120.9	120.9	121.7
177.5°	118.2	119.1	119.1	119.1	120.0
180°	118.2	118.2	118.2	118.2	118.2



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	1306.3	1318.7	1295.4	1134.2	971.0
110°	1208.4	1225.5	1211.4	1154.1	1071.3



(END OF REPORT)