

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: P828695

Luminaire Tested: **OHBL-36HE-NL-UNV-L950-CD-UPL18**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P828695  
REPORT IS A COMBINATION OF REPORTS P826171 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-36HE-NL-UNV-L950-CD-UPL18  
Description:  
Light Source: -  
Ballast/Driver: -

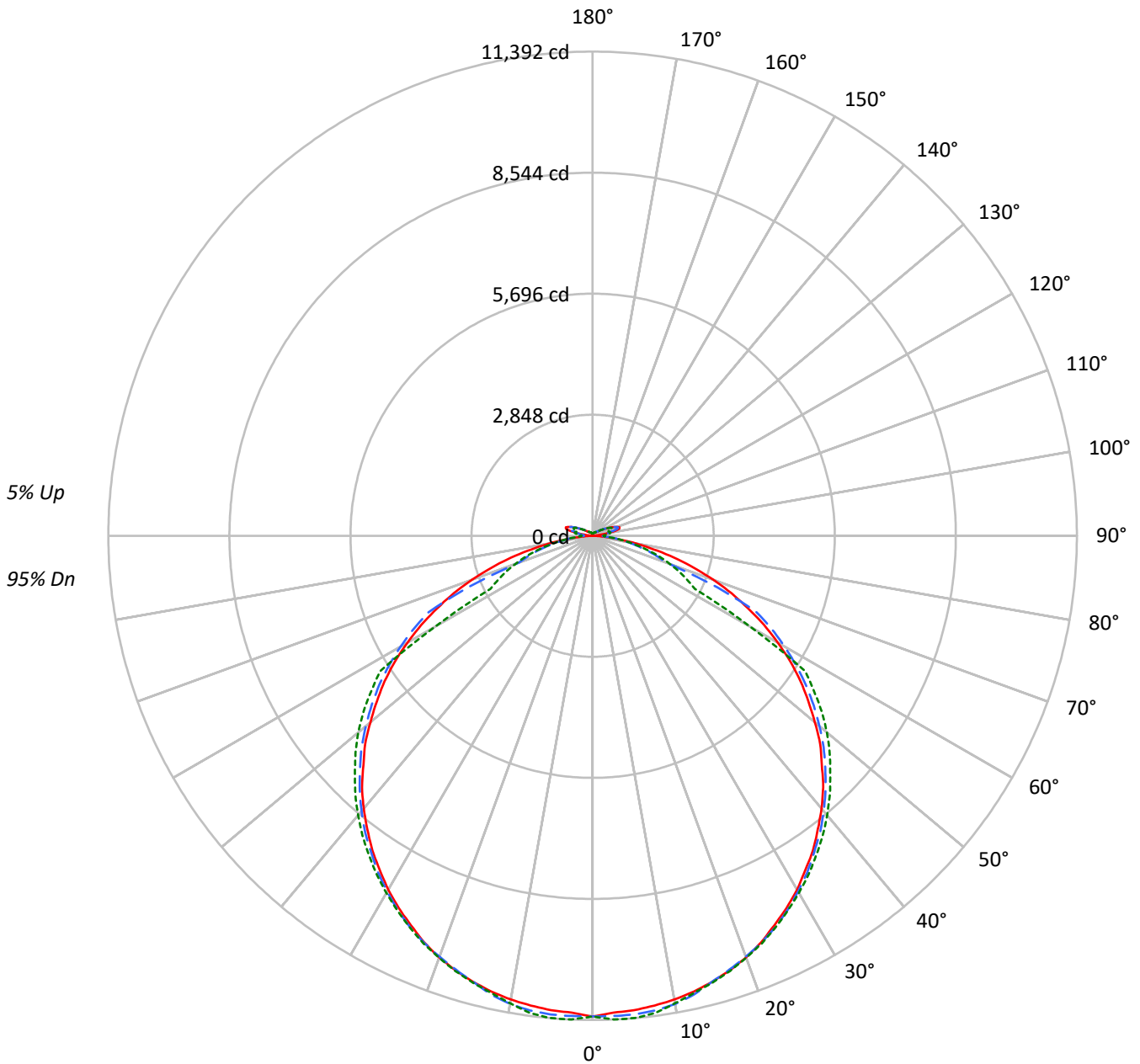
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33308.4 lumens  
Efficiency: N/A  
Efficacy: 148.5 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): 224.3  
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	118	118	118	118	114	114	114	114	108	108	108	103	103	103	97	97	97	95																			
1	108	104	99	96	105	101	97	94	96	93	90	91	88	86	86	85	83	80																			
2	99	91	84	79	95	88	82	77	84	79	75	80	76	72	76	73	70	67																			
3	90	80	72	65	87	78	70	65	74	68	63	71	65	61	67	63	59	57																			
4	82	71	62	56	80	69	61	55	66	59	54	63	57	52	60	55	51	49																			
5	76	63	54	48	73	62	53	47	59	52	46	56	50	45	54	49	44	42																			
6	70	57	48	42	68	56	47	41	53	46	41	51	45	40	49	43	39	37																			
7	65	51	43	37	63	50	42	36	48	41	36	46	40	35	45	39	35	33																			
8	60	47	38	33	58	46	38	32	44	37	32	43	36	31	41	35	31	29																			
9	56	43	35	29	55	42	34	29	41	34	29	39	33	28	38	32	28	26																			
10	53	40	32	27	51	39	31	26	38	31	26	36	30	26	35	29	25	24																			

**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	3.2
10°-20°	3076.4	9.2
20°-30°	4681.0	14.1
30°-40°	5691.4	17.1
40°-50°	5984.2	18.0
50°-60°	5464.3	16.4
60°-70°	3502.9	10.5
70°-80°	1654.7	5.0
80°-90°	462.7	1.4
90°-100°	270.4	0.8
100°-110°	550.3	1.7
110°-120°	453.4	1.4
120°-130°	213.3	0.6
130°-140°	106.6	0.3
140°-150°	61.9	0.2
150°-160°	36.1	0.1
160°-170°	18.7	0.1
170°-180°	5.7	0.0
0°-30°	8831.7	26.5
0°-40°	14523.1	43.6
0°-60°	25971.7	78.0
0°-90°	31592.0	94.8
90°-120°	1274.1	3.8
90°-150°	1655.8	5.0
90°-180°	1716.0	5.2
0°-180°	33308.4	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°	4	133	212	255	256	14
95°	39	129	243	322	343	107
105°	654	660	576	415	384	621
115°	456	465	470	459	446	457
125°	217	228	234	233	231	204
135°	129	131	136	137	138	102
145°	94	96	98	99	99	59
155°	75	76	77	78	78	35
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°	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°	3.5	132.9	212.1	255.4	<i>255.9</i>
92.5°	11.3	115.9	206.7	264.7	<i>273.4</i>
95°	39.0	128.9	243.3	321.9	<i>342.7</i>
97.5°	173.5	226.8	300.2	384.0	<i>401.9</i>
100°	353.5	400.6	369.3	421.8	<i>429.1</i>
102.5°	556.8	573.7	432.4	419.9	<i>416.8</i>
105°	654.2	660.0	576.0	415.2	<i>383.7</i>



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	535.4	542.9	538.3	518.5	482.7
115°	455.9	465.1	470.1	459.0	446.2
117.5°	379.9	382.6	384.3	382.6	383.4
120°	317.3	323.4	326.9	324.3	322.6
122.5°	265.2	273.0	277.4	274.7	273.0
125°	217.4	227.8	233.9	233.0	231.3
127.5°	184.3	192.1	200.0	199.1	197.4
130°	160.0	166.1	171.3	172.2	173.0
132.5°	143.5	146.1	151.3	152.2	153.9
135°	128.7	131.3	135.6	137.4	138.2
137.5°	117.4	120.0	123.5	125.2	126.1
140°	107.8	110.4	113.0	114.8	115.6
142.5°	100.0	102.6	105.2	106.1	106.9
145°	93.9	95.6	98.2	99.1	99.1
147.5°	87.8	89.6	91.3	93.0	93.0
150°	82.6	84.3	86.1	86.9	87.8
152.5°	79.1	80.0	81.7	82.6	82.6
155°	74.8	76.5	77.4	78.2	78.2
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°	660.3	670.1	627.7	483.8	396.3
110°	607.6	620.3	600.2	540.3	466.2



(END OF REPORT)