

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: P827198

Luminaire Tested: **OHBL-36HE-W-UNV-L840-CD-UPL36**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P827198  
REPORT IS A COMBINATION OF REPORTS P826316 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-W-UNV-L840-CD-UPL36  
Description: 36000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND WIDE LENS AND 3600 LUMEN UPLIGHT MODULE  
Light Source: -  
Ballast/Driver: -

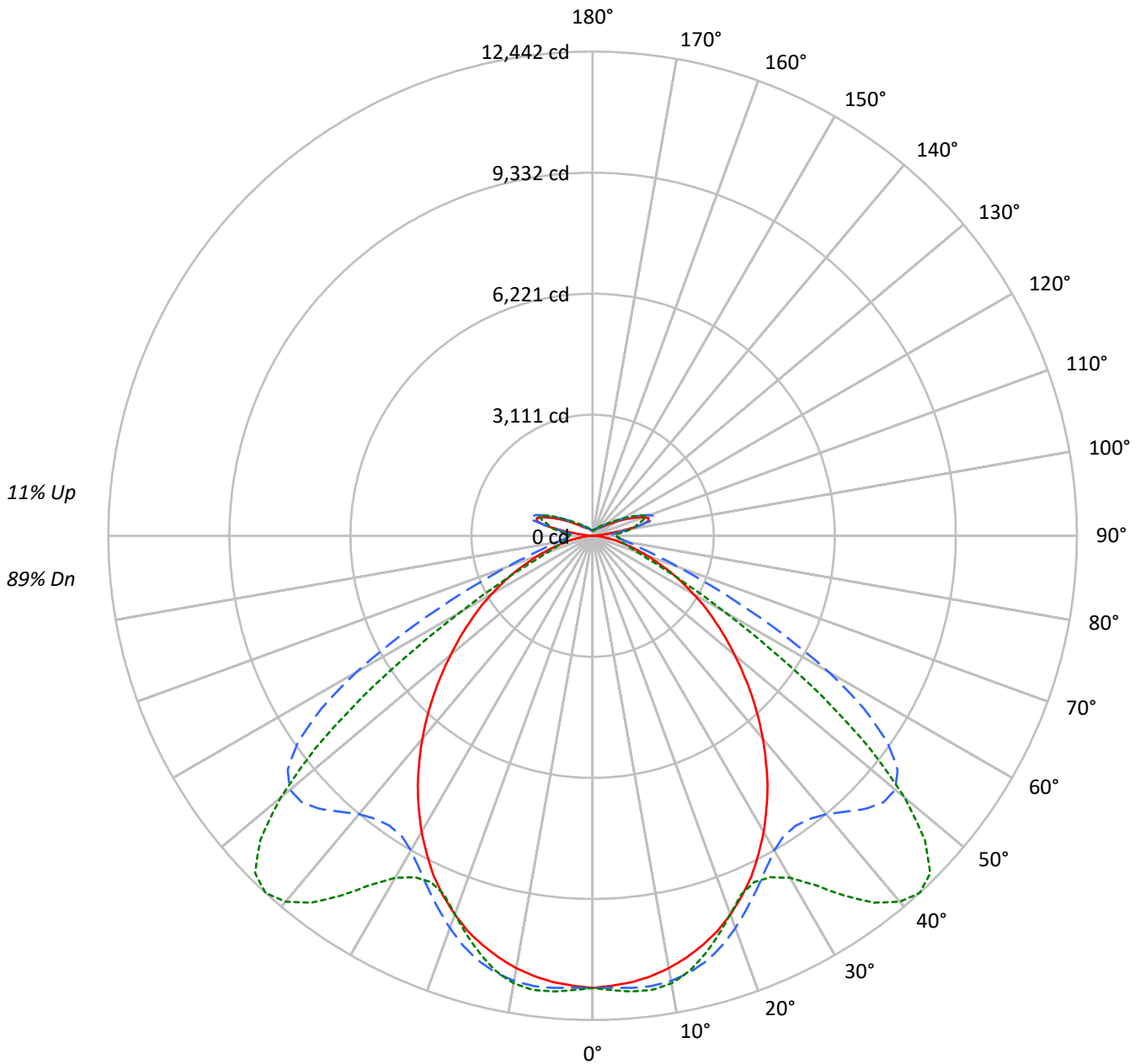
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 38379.1 lumens  
Efficiency: N/A  
Efficacy: 159.4 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')  
CIE Type: Semi-Direct  
  
Input Watts (W): 240.8  
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

TEST NUMBER: P827198

CATALOG NUMBER: OHBL-36HE-W-UNV-L840-CD-UPL36

### 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	116	116	116	116	112	112	112	112	105	105	105	98	98	98	92	92	92	89																			
1	107	102	98	94	103	99	95	92	92	90	87	87	84	82	81	80	78	75																			
2	97	89	83	77	94	87	81	76	81	76	72	76	72	69	72	69	66	63																			
3	89	79	71	64	85	76	69	63	72	66	61	67	62	58	63	59	56	53																			
4	81	70	61	55	78	67	60	54	64	57	52	60	54	50	57	52	48	45																			
5	74	62	53	47	72	60	52	46	57	50	44	54	48	43	51	46	41	39																			
6	69	56	47	41	66	54	46	40	51	44	39	48	42	37	46	40	36	34																			
7	63	50	42	36	61	49	41	35	46	39	34	44	38	33	42	36	32	30																			
8	59	46	37	31	57	44	37	31	42	35	30	40	34	29	38	33	29	26																			
9	55	42	34	28	53	41	33	28	39	32	27	37	31	26	35	30	26	24																			
10	51	38	30	25	50	37	30	25	36	29	24	34	28	24	32	27	23	21																			

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

	0°	45°	90°
0°	18379	18379	18379
5°	18131	18362	18589
10°	17828	18342	18611
15°	17405	18047	18014
20°	16855	17435	17132
25°	16147	16692	16788
30°	15234	16141	18066
35°	14206	16449	21140
40°	13031	17826	24439
45°	11810	20234	26270
50°	10545	22392	24446
55°	9354	22385	18679
60°	8147	18960	11420
65°	6881	13111	6918
70°	5472	8492	4995
75°	4030	6103	4631
80°	2740	5384	5225
85°	1658	5966	8259



TEST NUMBER: P827198

CATALOG NUMBER: OHBL-36HE-W-UNV-L840-CD-UPL36

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1110.6	2.9
10°-20°	3144.8	8.2
20°-30°	4601.9	12.0
30°-40°	5976.5	15.6
40°-50°	7298.1	19.0
50°-60°	6427.1	16.7
60°-70°	3349.2	8.7
70°-80°	1436.3	3.7
80°-90°	697.4	1.8
90°-100°	599.2	1.6
100°-110°	1447.5	3.8
110°-120°	1150.4	3.0
120°-130°	552.8	1.4
130°-140°	279.6	0.7
140°-150°	160.1	0.4
150°-160°	90.2	0.2
160°-170°	44.1	0.1
170°-180°	13.4	0.0
0°-30°	8857.3	23.1
0°-40°	14833.8	38.7
0°-60°	28558.9	74.4
0°-90°	34041.8	88.7
90°-120°	3197.0	8.3
90°-150°	4189.6	10.9
90°-180°	4337.0	11.3
0°-180°	38379.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	11622	11622	11622	11622	11622	
5°	11514	11602	11664	11767	11754	###
15°	10894	11200	11308	11223	11133	3068
25°	9653	10170	9997	9809	9819	4430
35°	7836	8663	9097	10609	11288	4884
45°	5769	7259	9922	12013	12263	4449
55°	3841	6359	9240	8101	7201	3447
65°	2204	4405	4230	2352	2023	2181
75°	888	2061	1359	930	883	968
85°	188	735	692	677	684	210
90°	10	315	519	594	607	19
95°	67	280	529	636	665	234
105°	1487	1562	1622	1314	1219	1414
115°	1045	1066	1169	1209	1204	1057
125°	525	550	622	638	631	492
135°	315	322	355	386	389	249
145°	238	238	246	264	270	151
155°	196	199	197	199	199	89
165°	151	153	154	155	156	43
175°	138	138	139	139	140	13
180°	136	136	136	136	136	



TEST NUMBER: P827198

CATALOG NUMBER: OHBL-36HE-W-UNV-L840-CD-UPL36

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	11621.6	11621.6	11621.6	11621.6	<i>11621.6</i>
2.5°	11571.4	11621.6	11624.1	11694.3	<i>11686.8</i>
5°	11513.7	11601.5	11664.2	11767.0	<i>11754.5</i>
7.5°	11418.5	11556.4	11666.7	11779.5	<i>11769.5</i>
10°	11283.1	11471.1	11616.5	11709.3	<i>11679.2</i>
12.5°	11107.6	11355.8	11498.7	11518.8	<i>11461.1</i>
15°	10894.4	11200.3	11308.1	11222.9	<i>11132.6</i>
17.5°	10653.7	11012.3	11049.9	10864.3	<i>10751.5</i>
20°	10352.8	10761.5	10723.9	10468.2	<i>10342.8</i>
22.5°	10019.4	10485.7	10365.4	10097.1	<i>9976.7</i>
25°	9653.3	10169.8	9996.8	9808.7	<i>9818.8</i>
27.5°	9224.5	9811.3	9643.3	9728.5	<i>9889.0</i>
30°	8788.3	9435.2	9332.4	9828.8	<i>10144.7</i>
32.5°	8309.4	9049.0	9141.8	10122.2	<i>10638.7</i>
35°	7835.5	8662.9	9096.7	10608.6	<i>11288.1</i>
37.5°	7311.4	8271.7	9169.4	11170.2	<i>11882.3</i>
40°	6802.4	7890.6	9334.9	11674.2	<i>12276.0</i>
42.5°	<i>6283.4</i>	<i>7549.6</i>	<i>9613.2</i>	<i>11972.6</i>	<i>12441.5</i>
45°	5769.4	7258.8	9921.6	12012.7	<i>12263.4</i>
47.5°	5255.4	7013.1	10134.7	11694.3	<i>11578.9</i>
50°	4758.9	6794.9	10149.7	10929.5	<i>10458.2</i>
52.5°	4295.1	6594.3	9873.9	9711.0	<i>8978.8</i>
55°	3841.3	6358.6	9239.6	8101.2	<i>7201.1</i>
57.5°	3427.5	6032.7	8261.7	6371.2	<i>5388.3</i>
60°	2988.8	5591.4	6998.0	4661.2	<i>3886.4</i>
62.5°	2585.1	5042.3	5581.4	3244.5	<i>2793.2</i>
65°	2204.0	4405.4	4229.9	2351.9	<i>2023.4</i>
67.5°	1800.3	3746.0	3121.6	1715.0	<i>1504.4</i>
70°	1484.4	3134.2	2324.3	1333.9	<i>1211.0</i>
72.5°	1160.9	2552.5	1737.6	1083.2	<i>1015.5</i>
75°	887.6	2061.0	1359.0	930.2	<i>882.6</i>
77.5°	654.4	1629.8	1093.2	822.4	<i>777.3</i>
80°	458.8	1283.8	915.2	734.7	<i>717.1</i>
82.5°	308.4	992.9	779.8	699.6	<i>702.1</i>
85°	188.1	734.7	692.0	677.0	<i>684.5</i>
87.5°	90.3	521.5	594.2	616.8	<i>624.3</i>
90°	10.5	314.8	519.3	593.5	<i>607.1</i>
92.5°	25.0	263.1	478.2	562.4	<i>580.9</i>
95°	67.0	279.5	528.6	636.2	<i>664.8</i>
97.5°	379.0	529.9	675.0	808.1	<i>839.7</i>
100°	810.5	934.3	929.9	997.5	<i>1025.1</i>
102.5°	1265.5	1372.8	1268.8	1149.9	<i>1124.9</i>
105°	1487.0	1561.8	1621.7	1314.3	<i>1219.3</i>



TEST NUMBER: P827198

CATALOG NUMBER: OHBL-36HE-W-UNV-L840-CD-UPL36

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1225.0	1273.2	1367.5	1398.6	1371.6
115°	1045.0	1066.1	1169.4	1209.0	1204.0
117.5°	898.6	916.1	1006.9	1033.0	1024.5
120°	758.6	778.6	861.3	877.4	871.9
122.5°	631.6	658.1	732.8	750.4	739.9
125°	524.6	550.1	622.2	638.3	630.8
127.5°	450.0	458.6	527.7	547.8	550.3
130°	389.0	397.0	453.2	480.2	483.3
132.5°	347.0	355.0	400.1	428.2	436.2
135°	315.0	322.0	355.1	385.7	389.2
137.5°	289.0	295.0	318.6	348.7	354.7
140°	267.0	273.0	289.1	318.1	320.7
142.5°	251.6	255.0	267.6	290.6	293.1
145°	238.1	238.0	245.6	263.6	269.6
147.5°	226.1	227.6	232.6	243.6	247.1
150°	215.1	218.1	217.0	224.1	230.1
152.5°	205.1	208.1	207.0	208.0	214.1
155°	196.1	199.1	197.0	199.0	199.0
157.5°	168.0	171.0	174.0	175.0	175.0
160°	162.0	164.0	167.0	167.0	168.0
162.5°	156.0	158.0	160.0	161.0	162.0
165°	151.0	153.0	154.0	155.0	156.0
167.5°	147.0	148.0	149.0	150.0	150.0
170°	143.0	144.0	145.0	145.0	146.0
172.5°	140.0	141.0	142.0	142.0	142.0
175°	138.0	138.0	139.0	139.0	140.0
177.5°	136.0	137.0	137.0	137.0	138.0
180°	136.0	136.0	136.0	136.0	136.0



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	1503.5	1571.7	1668.6	1537.2	1368.3
110°	1388.5	1456.7	1551.5	1534.7	1460.7



(END OF REPORT)