

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: P828398

Luminaire Tested: **OHBL-36HE-W-UNV-L940-CD-UPL36**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P828398  
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-L940-CD-UPL36  
Description:  
Light Source: -  
Ballast/Driver: -

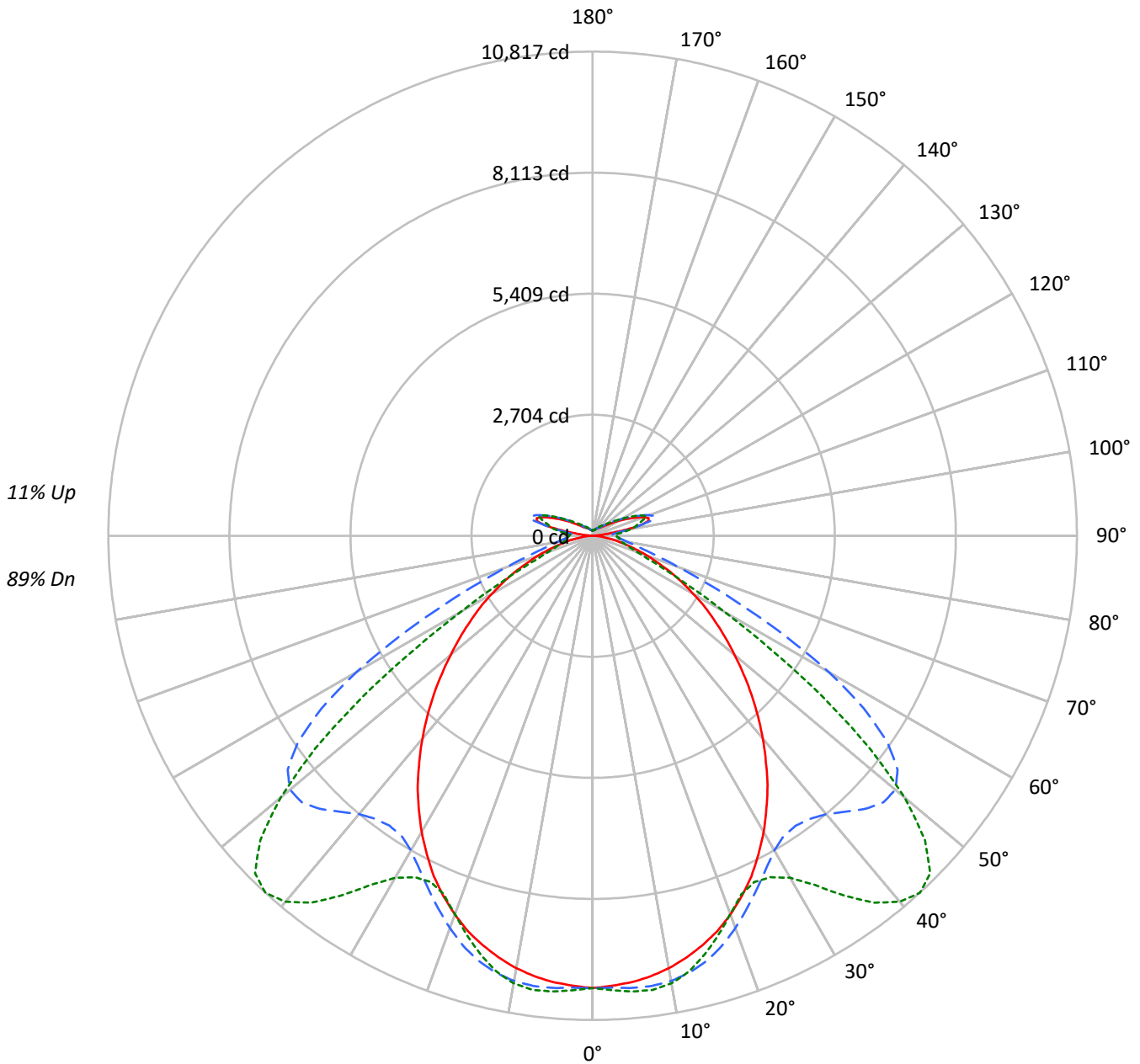
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33368.5 lumens  
Efficiency: N/A  
Efficacy: 138.6 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: P828398

CATALOG NUMBER: OHBL-36HE-W-UNV-L940-CD-UPL36

### Luminous Intensity Polar Plot





TEST NUMBER: P828398

CATALOG NUMBER: OHBL-36HE-W-UNV-L940-CD-UPL36

**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°	15980	15980	15980
5°	15764	15965	16162
10°	15500	15947	16181
15°	15133	15691	15662
20°	14655	15158	14895
25°	14039	14513	14597
30°	13245	14034	15707
35°	12351	14302	18381
40°	11329	15499	21249
45°	10268	17593	22840
50°	9168	19469	21255
55°	8133	19463	16240
60°	7083	16485	9929
65°	5983	11399	6014
70°	4757	7383	4343
75°	3504	5306	4027
80°	2382	4681	4543
85°	1441	5187	7180



TEST NUMBER: P828398

CATALOG NUMBER: OHBL-36HE-W-UNV-L940-CD-UPL36

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	965.6	2.9
10°-20°	2734.2	8.2
20°-30°	4001.1	12.0
30°-40°	5196.3	15.6
40°-50°	6345.3	19.0
50°-60°	5588.0	16.7
60°-70°	2911.9	8.7
70°-80°	1248.7	3.7
80°-90°	606.4	1.8
90°-100°	520.9	1.6
100°-110°	1258.5	3.8
110°-120°	1000.2	3.0
120°-130°	480.7	1.4
130°-140°	243.1	0.7
140°-150°	139.2	0.4
150°-160°	78.4	0.2
160°-170°	38.3	0.1
170°-180°	11.7	0.0
0°-30°	7700.9	23.1
0°-40°	12897.1	38.7
0°-60°	24830.4	74.4
0°-90°	29597.5	88.7
90°-120°	2779.7	8.3
90°-150°	3642.6	10.9
90°-180°	3771.0	11.3
0°-180°	33368.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	10104	10104	10104	10104	10104	
5°	10010	10087	10141	10231	10220	949
15°	9472	9738	9832	9758	9679	2667
25°	8393	8842	8692	8528	8537	3852
35°	6812	7532	7909	9224	9814	4246
45°	5016	6311	8626	10444	10662	3868
55°	3340	5528	8033	7044	6261	2997
65°	1916	3830	3678	2045	1759	1896
75°	772	1792	1182	809	767	841
85°	164	639	602	589	595	182
90°	9	274	452	516	528	16
95°	58	243	460	553	578	204
105°	1293	1358	1410	1143	1060	1230
115°	909	927	1017	1051	1047	919
125°	456	478	541	555	548	428
135°	274	280	309	335	338	216
145°	207	207	214	229	234	131
155°	170	173	171	173	173	77
165°	131	133	134	135	136	38
175°	120	120	121	121	122	12
180°	118	118	118	118	118	



TEST NUMBER: P828398

CATALOG NUMBER: OHBL-36HE-W-UNV-L940-CD-UPL36

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	10104.3	10104.3	10104.3	10104.3	<i>10104.3</i>
2.5°	10060.7	10104.3	10106.5	10167.5	<i>10161.0</i>
5°	10010.5	10086.9	10141.4	10230.8	<i>10219.9</i>
7.5°	9927.8	10047.6	10143.5	10241.6	<i>10232.9</i>
10°	9810.0	9973.5	10099.9	10180.6	<i>10154.4</i>
12.5°	9657.4	9873.2	9997.5	10015.0	<i>9964.8</i>
15°	9472.1	9738.0	9831.8	9757.7	<i>9679.2</i>
17.5°	9262.8	9574.6	9607.3	9445.9	<i>9347.8</i>
20°	9001.2	9356.5	9323.8	9101.5	<i>8992.5</i>
22.5°	8711.3	9116.7	9012.1	8778.9	<i>8674.2</i>
25°	8393.0	8842.1	8691.7	8528.1	<i>8536.9</i>
27.5°	8020.2	8530.4	8384.3	8458.4	<i>8597.9</i>
30°	7640.9	8203.4	8114.0	8545.6	<i>8820.3</i>
32.5°	7224.6	7867.6	7948.3	8800.7	<i>9249.8</i>
35°	6812.5	7531.9	7909.1	9223.6	<i>9814.4</i>
37.5°	6356.9	7191.8	7972.3	9711.9	<i>10331.0</i>
40°	5914.3	6860.4	8116.2	10150.1	<i>10673.3</i>
42.5°	<i>5463.1</i>	<i>6564.0</i>	<i>8358.1</i>	<i>10409.5</i>	<i>10817.2</i>
45°	5016.2	6311.1	8626.3	10444.4	<i>10662.3</i>
47.5°	4569.3	6097.5	8811.6	10167.5	<i>10067.2</i>
50°	4137.6	5907.8	8824.6	9502.6	<i>9092.8</i>
52.5°	3734.4	5733.4	8584.8	8443.2	<i>7806.6</i>
55°	3339.8	5528.4	8033.3	7043.5	<i>6261.0</i>
57.5°	2980.0	5245.1	7183.1	5539.4	<i>4684.8</i>
60°	2598.6	4861.4	6084.4	4052.7	<i>3379.0</i>
62.5°	2247.6	4384.0	4852.7	2820.9	<i>2428.5</i>
65°	1916.3	3830.3	3677.7	2044.8	<i>1759.2</i>
67.5°	1565.3	3256.9	2714.1	1491.1	<i>1308.0</i>
70°	1290.6	2725.0	2020.8	1159.8	<i>1052.9</i>
72.5°	1009.3	2219.3	1510.7	941.8	<i>882.9</i>
75°	771.7	1791.9	1181.6	808.8	<i>767.4</i>
77.5°	569.0	1417.0	950.5	715.0	<i>675.8</i>
80°	398.9	1116.2	795.7	638.8	<i>623.5</i>
82.5°	268.1	863.3	678.0	608.3	<i>610.4</i>
85°	163.5	638.8	601.7	588.6	<i>595.1</i>
87.5°	78.5	453.4	516.6	536.3	<i>542.8</i>
90°	9.1	273.7	451.5	516.0	<i>527.8</i>
92.5°	21.7	228.8	415.8	489.0	<i>505.1</i>
95°	58.3	243.0	459.6	553.1	<i>578.0</i>
97.5°	329.5	460.7	586.9	702.6	<i>730.1</i>
100°	704.7	812.3	808.5	867.3	<i>891.3</i>
102.5°	1100.3	1193.6	1103.2	999.8	<i>978.0</i>
105°	1292.9	1357.9	1410.0	1142.7	<i>1060.1</i>



TEST NUMBER: P828398

CATALOG NUMBER: OHBL-36HE-W-UNV-L940-CD-UPL36

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1065.1	1107.0	1189.0	1216.0	1192.5
115°	908.6	926.9	1016.7	1051.2	1046.8
117.5°	781.3	796.5	875.4	898.1	890.7
120°	659.6	676.9	748.9	762.9	758.1
122.5°	549.1	572.2	637.1	652.4	643.3
125°	456.1	478.3	541.0	555.0	548.4
127.5°	391.2	398.7	458.8	476.3	478.5
130°	338.2	345.2	394.0	417.5	420.2
132.5°	301.7	308.7	347.9	372.3	379.3
135°	273.9	280.0	308.7	335.3	338.4
137.5°	251.3	256.5	277.0	303.2	308.4
140°	232.1	237.4	251.4	276.6	278.8
142.5°	218.8	221.7	232.7	252.7	254.8
145°	207.0	206.9	213.5	229.2	234.4
147.5°	196.6	197.9	202.2	211.8	214.8
150°	187.0	189.6	188.7	194.8	200.1
152.5°	178.3	180.9	180.0	180.8	186.1
155°	170.5	173.1	171.3	173.0	173.0
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°	1307.2	1366.5	1450.8	1336.5	<i>1189.7</i>
110°	1207.2	1266.5	1348.9	1334.3	<i>1270.0</i>



(END OF REPORT)