

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: P828400

Luminaire Tested: **OHBL-36SE-A-UNV-L940-CD-UPL36**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P828400  
REPORT IS A COMBINATION OF REPORTS P826317 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-36SE-A-UNV-L940-CD-UPL36  
Description:  
Light Source: -  
Ballast/Driver: -

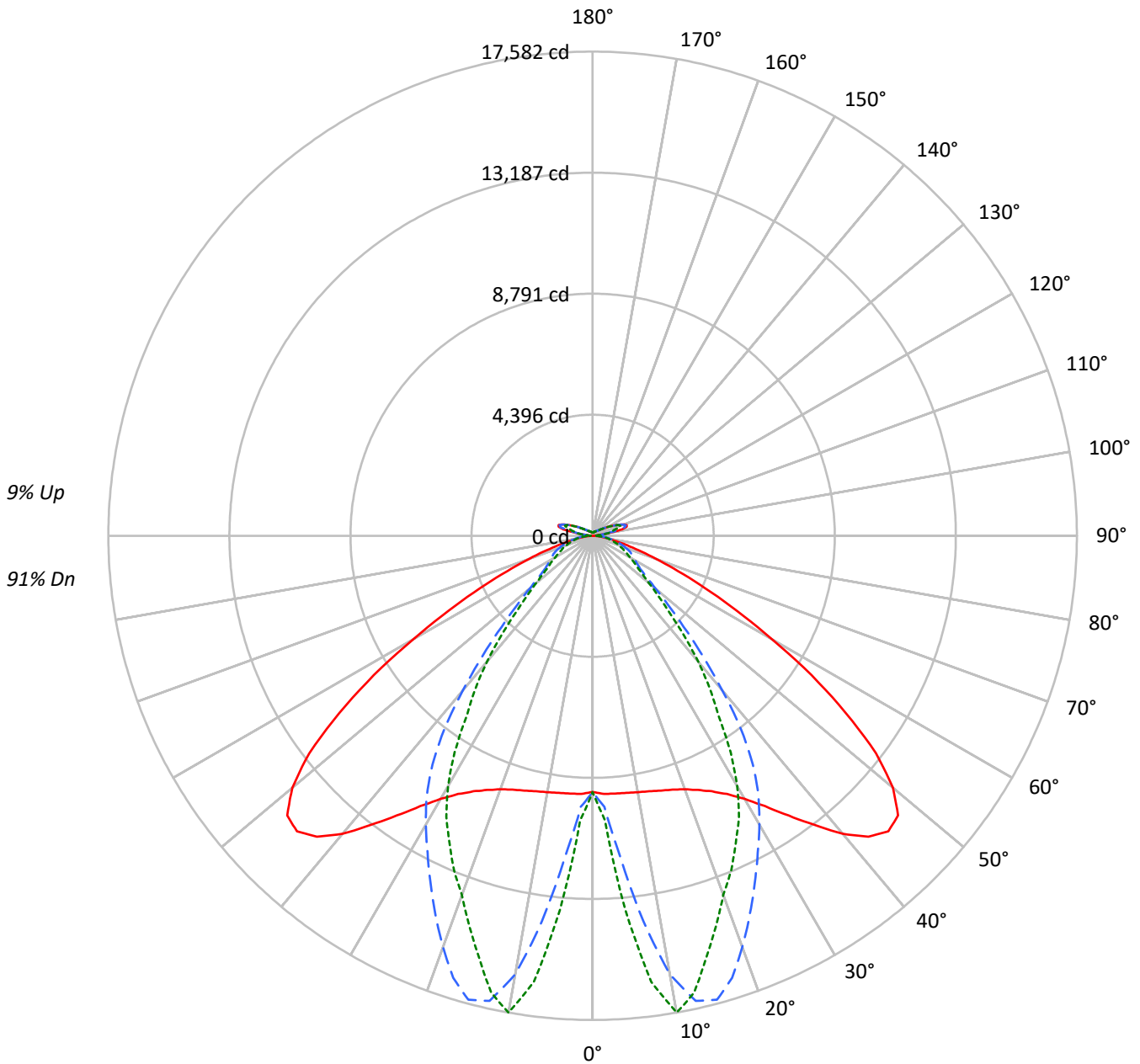
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 32970.3 lumens  
Efficiency: N/A  
Efficacy: 137.5 lumens/watt  
Spacing Criteria (0/90/45): 2.18 / 1.37 / 1.3  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 239.8  
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

TEST NUMBER: P828400

CATALOG NUMBER: OHBL-36SE-A-UNV-L940-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	117	117	117	117	113	113	113	113	106	106	106	99	99	99	93	93	93	91																			
1	108	104	101	98	105	101	98	95	95	93	90	90	88	86	85	83	82	79																			
2	100	93	87	83	97	91	85	81	86	81	78	81	78	75	77	74	72	69																			
3	93	84	77	71	89	81	75	70	77	72	67	73	69	65	70	66	63	61																			
4	86	75	68	62	83	73	66	61	70	64	59	67	62	57	63	59	56	54																			
5	80	68	60	55	77	67	59	54	64	57	52	61	55	51	58	53	50	48																			
6	74	62	54	49	72	61	53	48	58	52	47	56	50	46	53	48	45	43																			
7	69	57	49	44	67	56	48	43	53	47	42	51	46	41	49	44	40	38																			
8	64	52	45	39	63	51	44	39	49	43	38	47	42	37	46	40	37	35																			
9	60	48	41	36	59	47	40	35	46	39	35	44	38	34	42	37	34	32																			
10	57	45	37	33	55	44	37	32	42	36	32	41	35	31	39	34	31	29																			

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

	0°	45°	90°
0°	14714	14714	14714
5°	14798	18514	21569
10°	14940	25537	28016
15°	15306	27832	25714
20°	15949	25836	22980
25°	17124	23247	21020
30°	19109	20943	18691
35°	22483	18341	14894
40°	27058	13976	11854
45°	31069	9529	8437
50°	31534	6542	6240
55°	27333	5153	5098
60°	20452	4828	4586
65°	14049	4850	4344
70°	9009	4688	4207
75°	5440	4352	4026
80°	3223	3842	4154
85°	1572	3329	3851



TEST NUMBER: P828400

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1214.6	3.7
10°-20°	4287.0	13.0
20°-30°	6317.2	19.2
30°-40°	6638.3	20.1
40°-50°	5079.6	15.4
50°-60°	3067.2	9.3
60°-70°	1871.7	5.7
70°-80°	1021.6	3.1
80°-90°	365.3	1.1
90°-100°	239.2	0.7
100°-110°	1083.4	3.3
110°-120°	896.7	2.7
120°-130°	424.4	1.3
130°-140°	214.9	0.7
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°	11818.8	35.8
0°-40°	18457.2	56.0
0°-60°	26604.0	80.7
0°-90°	29862.5	90.6
90°-120°	2219.3	6.7
90°-150°	2984.1	9.1
90°-180°	3108.0	9.4
0°-180°	32970.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	9304	9304	9304	9304	9304	
5°	9397	10082	11761	13132	13639	898
15°	9580	14922	17439	16274	15891	2724
25°	10237	17318	13923	12605	12294	4785
35°	12401	13868	10143	8447	7953	7867
45°	15178	7914	4672	4111	3939	11468
55°	11224	2684	2127	1971	1965	9919
65°	4500	1699	1565	1339	1271	4611
75°	1198	1056	969	800	767	1379
85°	178	328	386	352	319	220
90°	7	43	55	63	64	14
95°	54	108	144	183	196	201
105°	1284	1282	1205	896	810	1221
115°	896	883	890	896	888	905
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	



TEST NUMBER: P828400

CATALOG NUMBER: OHBL-36SE-A-UNV-L940-CD-UPL36

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	9303.9	9303.9	9303.9	9303.9	9303.9
2.5°	9380.1	9475.8	9853.2	10245.1	10340.4
5°	9397.2	10081.9	11761.1	13132.3	13639.1
7.5°	9417.2	11063.8	14125.0	15803.9	16341.3
10°	9455.1	12305.3	16173.3	17378.5	17581.6
12.5°	9502.2	13620.7	17300.4	17256.5	17000.3
15°	9580.4	14921.8	17439.2	16273.5	15890.8
17.5°	9662.6	16022.5	16833.6	15203.5	14870.3
20°	9796.2	16839.6	15891.6	14252.3	13873.6
22.5°	9989.0	17288.8	14903.8	13392.1	13145.1
25°	10237.4	17317.9	13922.8	12604.9	12293.8
27.5°	10570.6	16916.2	12982.4	11833.7	11505.0
30°	11023.9	16147.0	12108.7	10903.8	10496.0
32.5°	11639.4	15039.8	11207.7	9781.1	9323.8
35°	12400.7	13868.5	10142.9	8446.9	7953.0
37.5°	13231.3	12567.8	8850.7	7265.6	6977.9
40°	14125.0	11227.7	7319.1	6160.0	5954.2
42.5°	14822.4	9770.6	5896.3	5119.1	4900.1
45°	15177.9	7913.5	4672.3	4111.3	3938.6
47.5°	15039.5	6142.9	3704.0	3266.8	3214.9
50°	14231.5	4535.9	2965.2	2691.0	2669.5
52.5°	12968.4	3380.8	2449.2	2279.7	2242.6
55°	11224.5	2683.5	2126.9	1971.3	1965.3
57.5°	9424.0	2279.7	1930.6	1810.1	1768.2
60°	7503.4	2032.8	1781.8	1645.8	1560.7
62.5°	5881.5	1860.0	1672.5	1487.7	1408.3
65°	4500.0	1698.8	1564.7	1338.9	1270.7
67.5°	3354.5	1545.2	1433.1	1182.5	1142.6
70°	2444.1	1387.6	1283.0	1051.7	1020.1
72.5°	1741.8	1230.4	1133.1	928.8	894.0
75°	1198.1	1056.5	969.1	799.5	767.2
77.5°	808.3	878.9	807.5	682.6	669.0
80°	539.8	697.0	653.1	578.5	570.1
82.5°	327.5	505.9	515.5	470.4	447.7
85°	178.3	327.5	386.2	351.9	319.2
87.5°	69.8	181.5	266.1	239.0	225.0
90°	7.0	42.6	54.8	62.6	63.5
92.5°	21.7	52.2	66.9	83.5	88.7
95°	53.9	107.8	143.5	182.6	196.5
97.5°	325.2	349.5	303.4	362.6	383.4
100°	698.2	716.4	555.6	559.9	577.3
102.5°	1093.8	1108.5	876.4	725.1	699.0
105°	1284.2	1281.6	1205.0	896.4	809.5



TEST NUMBER: P828400

CATALOG NUMBER: OHBL-36SE-A-UNV-L940-CD-UPL36

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1052.0	1054.6	1045.1	1041.6	1013.8
115°	895.5	883.4	890.3	896.4	887.7
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°	1296.3	1299.0	1267.6	1116.4	965.1
110°	1196.4	1207.7	1187.7	1138.1	1069.4



(END OF REPORT)