

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: P828399

Luminaire Tested: **OHBL-36SE-A-UNV-L940-CD-UPL18**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P828399  
REPORT IS A COMBINATION OF REPORTS P826173 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-36SE-A-UNV-L940-CD-UPL18  
Description:  
Light Source: -  
Ballast/Driver: -

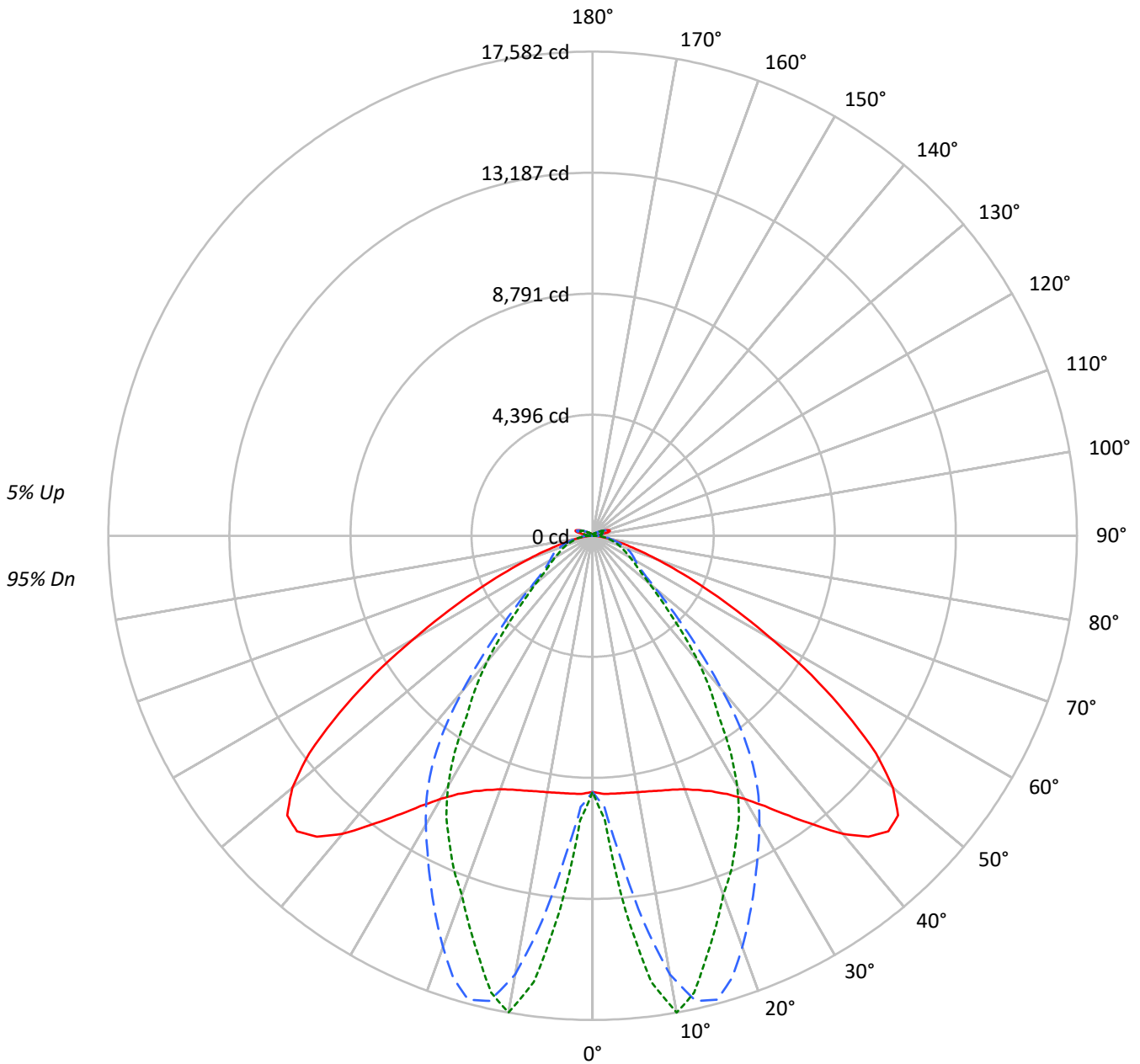
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 31412.1 lumens  
Efficiency: N/A  
Efficacy: 140.7 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): 223.3  
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	115	115	115	115	108	108	108	103	103	103	98	98	98	95																			
1	109	105	102	99	106	103	99	97	98	95	93	93	91	89	89	87	86	83																			
2	101	94	88	84	98	92	87	82	88	83	80	84	80	77	80	77	75	73																			
3	94	85	78	72	91	83	76	71	79	74	69	76	71	67	73	69	66	64																			
4	87	76	69	63	84	75	68	62	72	66	61	69	64	60	66	62	58	56																			
5	80	69	61	55	78	68	60	55	65	59	54	63	57	53	61	56	52	50																			
6	75	63	55	49	73	62	54	49	60	53	48	58	52	47	56	51	47	45																			
7	70	58	50	44	68	57	49	44	55	48	43	53	47	43	51	46	42	40																			
8	65	53	45	40	64	52	45	40	51	44	39	49	43	39	48	42	38	37																			
9	61	49	42	37	60	48	41	36	47	40	36	45	40	35	44	39	35	33																			
10	58	46	38	33	56	45	38	33	44	37	33	42	37	33	41	36	32	31																			

**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



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1214.6	3.9
10°-20°	4287.0	13.6
20°-30°	6317.2	20.1
30°-40°	6638.3	21.1
40°-50°	5079.6	16.2
50°-60°	3067.2	9.8
60°-70°	1871.7	6.0
70°-80°	1021.6	3.3
80°-90°	362.5	1.2
90°-100°	148.9	0.5
100°-110°	517.0	1.6
110°-120°	444.2	1.4
120°-130°	213.3	0.7
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°	11818.8	37.6
0°-40°	18457.2	58.8
0°-60°	26604.0	84.7
0°-90°	29859.7	95.1
90°-120°	1110.0	3.5
90°-150°	1491.8	4.7
90°-180°	1552.0	4.9
0°-180°	31412.1	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°	4	22	30	39	44	12
95°	33	71	112	145	166	104
105°	644	638	544	383	354	611
115°	446	451	450	445	444	450
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°	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°	3.5	21.7	29.6	39.1	43.5
92.5°	11.3	28.7	47.8	66.1	73.0
95°	33.0	71.3	112.2	145.2	166.1
97.5°	169.5	185.2	206.9	245.2	259.1
100°	349.5	366.9	307.8	322.6	327.8
102.5°	546.9	546.0	394.7	356.5	351.3
105°	644.3	638.2	544.3	383.4	353.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	523.4	526.9	516.4	502.5	480.8
115°	446.0	451.2	450.4	445.2	444.3
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°	650.3	650.3	599.9	466.0	390.4
110°	595.6	602.5	576.4	524.3	464.3



(END OF REPORT)