

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: P830417

Luminaire Tested: **OHBL-36SE-N-UNV-L740-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P830417  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-36SE-N-UNV-L740-CD  
Description: 36000 LUMEN OHBL SE LED LUMINAIRE WITH 70CRI, 4000K LEDS AND NARROW LENS  
Light Source: -  
Ballast/Driver: -

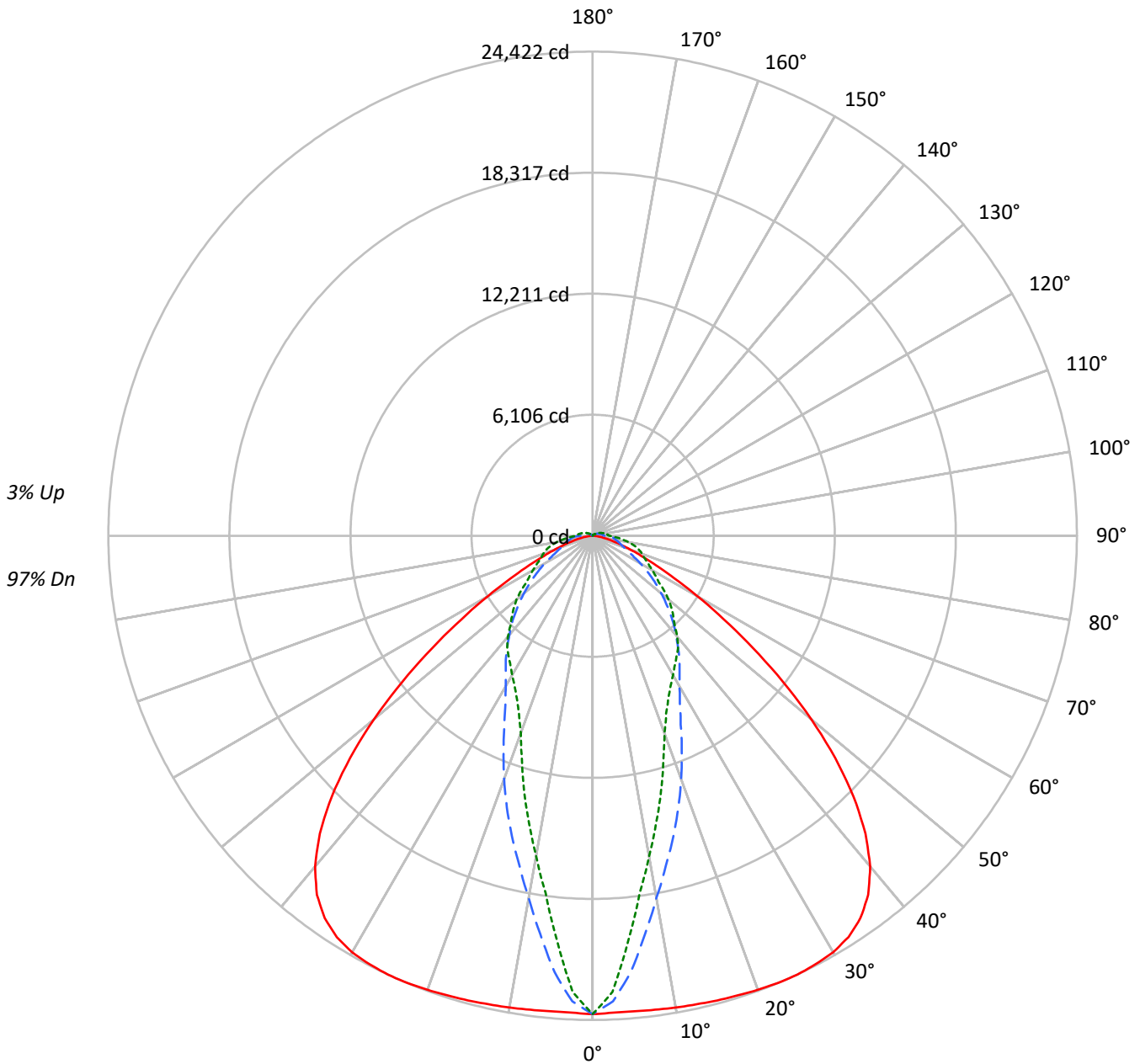
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 35608.0 lumens  
Efficiency: N/A  
Efficacy: 168.8 lumens/watt  
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78  
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 211  
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: P830417

CATALOG NUMBER: OHBL-36SE-N-UNV-L740-CD

### Luminous Intensity Polar Plot





TEST NUMBER: P830417

CATALOG NUMBER: OHBL-36SE-N-UNV-L740-CD

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					20					
RC	80					70					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	109	109	109	104	104	104	99	99	99	99	99	99	97					
1	109	104	100	97	106	102	98	95	97	94	91	92	90	88	88	86	85	85	85	85	82					
2	100	93	86	81	97	90	85	80	86	82	78	83	79	75	79	76	73	73	73	73	71					
3	92	83	75	69	90	81	74	69	78	72	67	74	70	65	72	67	64	64	64	64	62					
4	85	74	66	60	83	73	66	60	70	64	59	67	62	57	65	60	56	56	56	56	54					
5	79	67	59	53	77	66	59	53	64	57	52	62	56	51	59	54	50	50	50	50	48					
6	74	62	53	47	72	60	53	47	58	52	46	56	50	46	55	49	45	45	45	45	43					
7	69	56	48	43	67	55	48	42	54	47	42	52	46	41	50	45	41	41	41	41	39					
8	65	52	44	39	63	51	44	39	50	43	38	48	42	38	47	41	37	37	37	37	35					
9	61	48	41	35	59	47	40	35	46	40	35	45	39	35	44	38	34	34	34	34	32					
10	57	45	37	33	56	44	37	32	43	37	32	42	36	32	41	35	32	32	32	32	30					

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

	0°	45°	90°
0°	38155	38155	38155
5°	38078	34763	32327
10°	38507	29295	25938
15°	39259	25066	21303
20°	40362	21204	17242
25°	41758	17560	15118
30°	43201	15136	14055
35°	44100	13802	13401
40°	43346	12475	12725
45°	39876	11281	11793
50°	33643	9975	11082
55°	25564	8745	9875
60°	17915	7509	9470
65°	12050	6477	9291
70°	8230	6091	9776
75°	5711	6300	10489
80°	3931	7010	10873
85°	2300	8848	11557



TEST NUMBER: P830417

CATALOG NUMBER: OHBL-36SE-N-UNV-L740-CD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2030.9	5.7
10°-20°	4777.6	13.4
20°-30°	5988.7	16.8
30°-40°	6354.7	17.8
40°-50°	5745.7	16.1
50°-60°	4166.0	11.7
60°-70°	2614.4	7.3
70°-80°	1730.1	4.9
80°-90°	996.7	2.8
90°-100°	482.9	1.4
100°-110°	333.3	0.9
110°-120°	205.7	0.6
120°-130°	99.6	0.3
130°-140°	45.8	0.1
140°-150°	25.0	0.1
150°-160°	10.9	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	12797.3	35.9
0°-40°	19152.0	53.8
0°-60°	29063.6	81.6
0°-90°	34404.8	96.6
90°-120°	1021.9	2.9
90°-150°	1192.3	3.3
90°-180°	1203.0	3.4
0°-180°	35608.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	24126	24126	24126	24126	24126	
5°	24078	23460	22083	21059	20528	###
15°	24262	19775	15706	13968	13334	6880
25°	24422	15290	10517	9334	9038	11283
35°	23548	10165	7633	7394	7392	14638
45°	18615	6439	5532	5665	5761	14181
55°	9855	3991	3610	3915	4055	8905
65°	3525	2315	2090	2677	2976	3668
75°	1088	1247	1403	2179	2310	1213
85°	191	517	1026	1428	1311	228
90°	0	216	595	838	845	12
95°	9	152	524	712	744	8
105°	18	101	381	505	519	19
115°	25	71	257	322	328	25
125°	28	37	131	165	163	24
135°	23	28	57	90	90	18
145°	28	30	34	53	50	17
155°	28	34	37	39	34	9
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P830417

CATALOG NUMBER: OHBL-36SE-N-UNV-L740-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	24126.3	24126.3	24126.3	24126.3	24126.3
2.5°	24075.8	23938.0	23508.6	23246.9	23026.4
5°	24078.1	23460.4	22082.7	21058.6	20528.2
7.5°	24112.5	22739.4	20257.2	18762.4	18179.1
10°	24165.4	21846.2	18553.4	16959.8	16415.6
12.5°	24204.4	20840.4	17054.0	15416.8	14819.8
15°	24261.8	19775.0	15706.1	13967.9	13334.1
17.5°	24314.6	18771.5	14374.3	12558.0	11853.1
20°	24367.4	17690.0	13042.5	11171.1	10590.1
22.5°	24417.9	16548.8	11742.8	10094.2	9696.9
25°	24422.5	15290.5	10516.7	9334.1	9037.9
27.5°	24362.8	13986.2	9522.4	8698.1	8514.4
30°	24259.5	12721.0	8750.9	8238.8	8107.9
32.5°	24002.3	11430.6	8153.9	7795.6	7719.9
35°	23547.7	10165.3	7632.6	7393.8	7391.5
37.5°	22831.3	9042.5	7067.7	7026.4	7076.9
40°	21772.7	8059.7	6532.7	6642.9	6642.9
42.5°	20360.5	7205.5	6048.2	6160.7	6130.9
45°	18615.4	6438.6	5531.6	5664.8	5761.2
47.5°	16592.4	5763.5	5003.4	5260.6	5393.8
50°	14392.7	5120.6	4521.2	4849.6	5001.2
52.5°	12087.3	4525.8	4050.5	4427.1	4548.8
55°	9855.3	3990.8	3609.6	3915.0	4055.1
57.5°	7834.7	3481.1	3178.0	3467.3	3756.6
60°	6096.4	3042.5	2771.5	3184.8	3474.2
62.5°	4656.7	2652.1	2390.4	2920.8	3210.1
65°	3524.7	2314.6	2089.6	2677.4	2975.9
67.5°	2656.7	2023.0	1855.3	2500.6	2792.2
70°	1995.4	1740.5	1667.1	2390.4	2652.1
72.5°	1474.2	1481.1	1517.8	2293.9	2493.7
75°	1088.4	1246.8	1403.0	2179.1	2310.0
77.5°	778.4	1033.3	1299.7	2041.3	2087.3
80°	539.6	842.7	1191.7	1859.9	1820.9
82.5°	337.5	675.1	1095.3	1660.2	1552.2
85°	190.6	516.6	1026.4	1428.2	1311.1
87.5°	85.0	385.8	897.8	1113.7	1040.2
90°	0.0	215.8	594.7	838.1	845.0
92.5°	4.6	179.1	548.8	766.9	789.9
95°	9.2	151.6	523.5	711.8	744.0
97.5°	11.5	133.2	491.4	661.3	688.9
100°	13.8	119.4	452.4	608.5	631.5
102.5°	16.1	110.2	415.6	553.4	571.8
105°	18.4	101.0	381.2	505.2	518.9



TEST NUMBER: P830417

CATALOG NUMBER: OHBL-36SE-N-UNV-L740-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	23.0	78.1	287.0	362.8	374.3
115°	25.3	71.2	257.2	321.5	328.4
117.5°	27.6	62.0	225.0	282.4	284.7
120°	27.6	55.1	192.9	241.1	241.1
122.5°	27.6	45.9	160.7	199.8	197.5
125°	27.6	36.7	130.9	165.3	163.0
127.5°	25.3	29.9	105.6	137.8	135.5
130°	25.3	29.9	85.0	117.1	117.1
132.5°	23.0	27.6	68.9	101.0	101.0
135°	23.0	27.6	57.4	89.6	89.6
137.5°	23.0	29.9	48.2	78.1	78.1
140°	23.0	27.6	41.3	68.9	68.9
142.5°	25.3	27.6	36.7	59.7	59.7
145°	27.6	29.9	34.4	52.8	50.5
147.5°	27.6	32.1	34.4	45.9	43.6
150°	27.6	34.4	34.4	41.3	39.0
152.5°	27.6	34.4	34.4	39.0	36.7
155°	27.6	34.4	36.7	39.0	34.4
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	18.4	94.1	349.0	452.4	468.4
110°	20.7	85.0	319.2	404.1	420.2



(END OF REPORT)