

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: P830401

Luminaire Tested: **OHBL-36SE-MCL-UNV-L940-CD**

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P830401
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-200-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-36SE-MCL-UNV-L940-CD
Description: 36000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 4000K LEDS AND MEDIUM CLEAR LENS
Light Source: -
Ballast/Driver: -

Summary

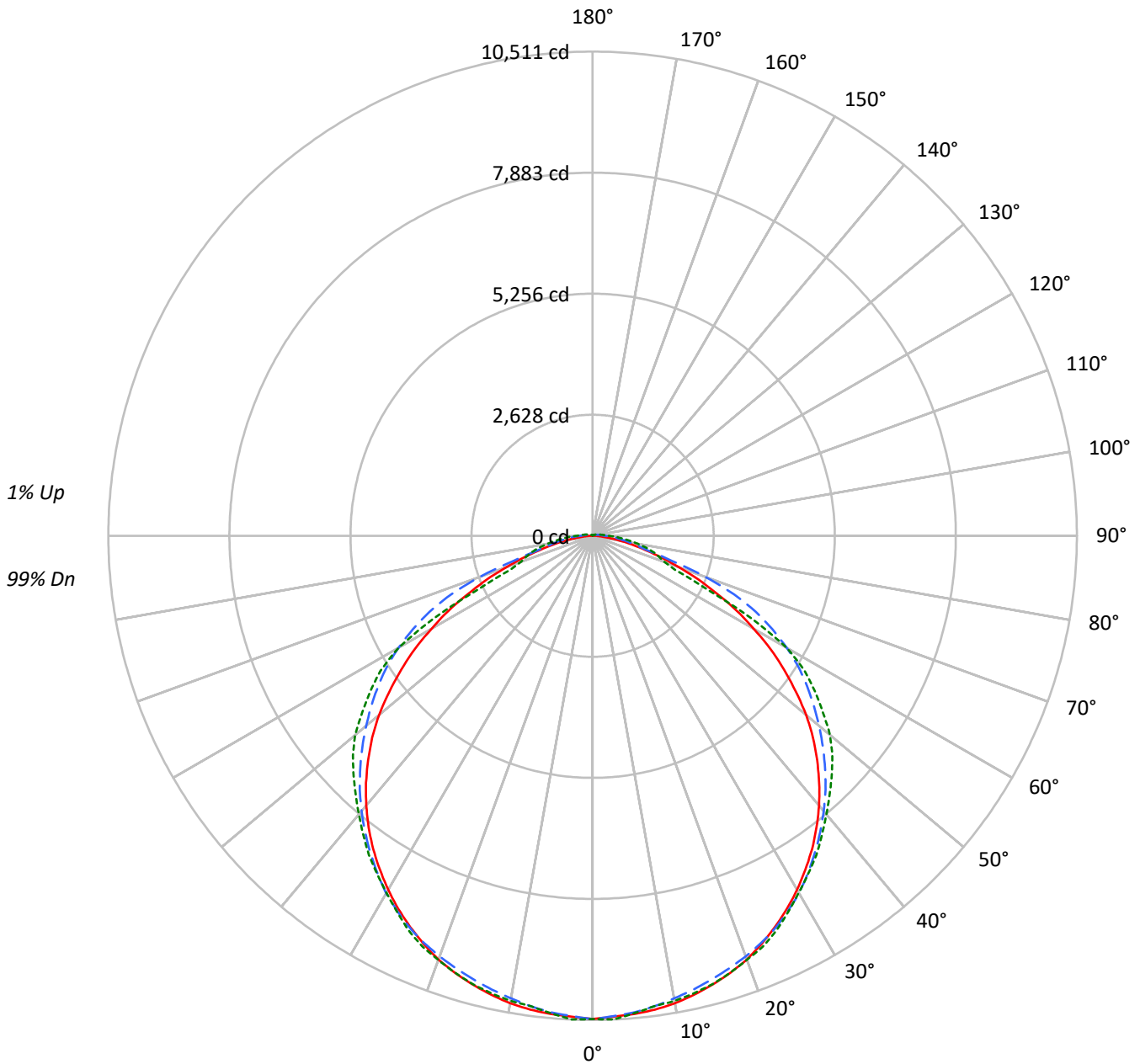
Lumens per Lamp: N/A
Luminaire Lumens: 29650.1 lumens
Efficiency: N/A
Efficacy: 140.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 211
Input Voltage (V): NR
Input Current (A_{in}): 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: P830401

CATALOG NUMBER: OHBL-36SE-MCL-UNV-L940-CD

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	119	119	119	119	116	116	116	116	110	110	110	106	106	106	101	101	101				99																
1	109	104	100	96	106	102	98	95	97	94	91	93	91	88	90	87	86				83																
2	99	91	84	79	96	89	83	78	85	80	76	82	78	74	79	75	72				70																
3	91	80	72	66	88	79	71	65	75	69	64	72	67	63	70	65	61				59																
4	83	71	62	56	81	70	62	55	67	60	54	65	59	54	62	57	53				51																
5	76	64	55	48	74	62	54	48	60	53	47	58	52	46	56	50	46				44																
6	70	57	48	42	68	56	48	42	54	47	41	52	46	41	51	45	40				38																
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36				34																
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	42	36	32				30																
9	57	43	35	30	55	43	35	29	41	34	29	40	34	29	39	33	29				27																
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	36	30	26				24																

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16590	16590	16590
5°	16481	16349	16383
10°	16421	16101	16201
15°	16317	15916	16093
20°	16213	15799	15950
25°	16017	15682	15809
30°	15804	15497	15510
35°	15550	15203	15345
40°	15219	14899	15121
45°	14761	14548	15021
50°	14140	14148	14902
55°	13153	13755	14346
60°	11861	13179	13263
65°	10175	12111	8405
70°	8195	9455	6094
75°	6144	5612	6185
80°	4277	4667	5905
85°	2434	4276	5536



TEST NUMBER: P830401

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	989.1	3.3
10°-20°	2836.4	9.6
20°-30°	4332.0	14.6
30°-40°	5256.2	17.7
40°-50°	5509.0	18.6
50°-60°	4992.0	16.8
60°-70°	3346.9	11.3
70°-80°	1502.9	5.1
80°-90°	545.4	1.8
90°-100°	164.2	0.6
100°-110°	77.5	0.3
110°-120°	38.8	0.1
120°-130°	21.4	0.1
130°-140°	14.7	0.0
140°-150°	9.9	0.0
150°-160°	7.4	0.0
160°-170°	4.7	0.0
170°-180°	1.5	0.0
0°-30°	8157.5	27.5
0°-40°	13413.7	45.2
0°-60°	23914.7	80.7
0°-90°	29309.9	98.9
90°-120°	280.4	0.9
90°-150°	326.5	1.1
90°-180°	340.0	1.1
0°-180°	29650.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10490	10490	10490	10490	10490	
5°	10422	10458	10386	10417	10404	991
15°	10084	10044	9973	10061	10073	2847
25°	9368	9327	9392	9478	9451	4318
35°	8303	8323	8408	8497	8464	5190
45°	6891	7003	7134	7316	7338	5308
55°	5071	5315	5677	5905	5891	4526
65°	2976	3442	3907	3298	2692	2965
75°	1171	1699	1250	1279	1362	1280
85°	202	387	496	599	628	246
90°	2	129	256	322	337	12
95°	2	80	176	214	220	2
105°	6	35	86	105	109	7
115°	12	18	44	56	59	11
125°	11	12	27	32	33	11
135°	14	15	17	24	26	11
145°	14	15	15	17	18	9
155°	15	17	17	17	15	7
165°	17	17	17	17	17	5
175°	17	17	15	14	14	2
180°	15	15	15	15	15	



TEST NUMBER: P830401

CATALOG NUMBER: OHBL-36SE-MCL-UNV-L940-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10490.2	10490.2	10490.2	10490.2	10490.2
2.5°	10447.7	10491.7	10437.1	10496.3	10511.4
5°	10421.9	10458.3	10385.5	10417.4	10403.7
7.5°	10374.9	10387.1	10300.6	10326.4	10299.1
10°	10305.1	10299.1	10197.5	10247.5	10253.6
12.5°	10202.0	10183.8	10092.8	10168.6	10170.2
15°	10083.7	10044.3	9973.0	10060.9	10073.1
17.5°	9947.2	9895.6	9848.6	9962.3	9944.1
20°	9787.9	9727.2	9718.1	9842.5	9797.0
22.5°	9590.7	9543.7	9564.9	9683.3	9654.4
25°	9367.8	9326.8	9392.0	9478.5	9451.2
27.5°	9132.7	9108.4	9182.7	9249.5	9196.4
30°	8874.8	8861.2	8959.7	9014.3	8947.6
32.5°	8594.2	8598.7	8692.8	8767.1	8704.9
35°	8303.0	8322.7	8407.6	8497.1	8463.7
37.5°	7982.9	8026.9	8111.9	8213.5	8178.6
40°	7644.7	7708.4	7802.4	7925.3	7893.4
42.5°	7279.1	7359.5	7480.9	7617.4	7614.3
45°	6890.8	7003.1	7133.5	7315.5	7338.3
47.5°	6487.4	6613.3	6778.6	7021.3	7056.2
50°	6049.0	6206.7	6413.0	6704.3	6725.5
52.5°	5560.6	5776.0	6049.0	6328.1	6302.3
55°	5070.7	5314.9	5677.4	5904.9	5891.3
57.5°	4582.3	4856.8	5296.7	5459.0	5457.4
60°	4036.2	4383.6	4864.4	4987.2	4865.9
62.5°	3531.1	3904.2	4403.3	4313.8	3898.2
65°	2976.0	3441.6	3907.3	3297.5	2692.3
67.5°	2483.0	2968.4	3318.8	2258.5	1933.9
70°	1987.0	2522.4	2587.7	1676.1	1653.3
72.5°	1547.1	2117.5	1785.3	1434.9	1507.7
75°	1171.0	1698.8	1249.8	1278.7	1362.1
77.5°	854.0	1304.4	972.3	1120.9	1189.2
80°	587.0	923.7	793.3	941.9	989.0
82.5°	368.6	609.8	635.5	758.4	806.9
85°	201.7	386.8	496.0	599.1	628.0
87.5°	83.4	233.6	379.2	462.6	486.9
90°	1.5	128.9	256.3	321.6	336.7
92.5°	1.5	98.6	209.3	259.4	270.0
95°	1.5	80.4	175.9	213.9	219.9
97.5°	3.0	63.7	147.1	177.5	183.5
100°	4.6	53.1	122.9	148.6	153.2
102.5°	6.1	42.5	103.1	124.4	128.9
105°	6.1	34.9	86.5	104.7	109.2



TEST NUMBER: P830401

CATALOG NUMBER: OHBL-36SE-MCL-UNV-L940-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	10.6	21.2	51.6	65.2	68.3
115°	12.1	18.2	44.0	56.1	59.2
117.5°	12.1	15.2	37.9	47.0	50.1
120°	12.1	13.7	33.4	41.0	42.5
122.5°	12.1	12.1	28.8	36.4	37.9
125°	10.6	12.1	27.3	31.9	33.4
127.5°	12.1	12.1	24.3	28.8	30.3
130°	12.1	13.7	21.2	27.3	27.3
132.5°	13.7	15.2	19.7	25.8	25.8
135°	13.7	15.2	16.7	24.3	25.8
137.5°	15.2	15.2	15.2	22.8	24.3
140°	15.2	15.2	13.7	19.7	21.2
142.5°	13.7	15.2	13.7	18.2	19.7
145°	13.7	15.2	15.2	16.7	18.2
147.5°	15.2	15.2	15.2	15.2	16.7
150°	15.2	15.2	15.2	15.2	15.2
152.5°	15.2	15.2	15.2	15.2	15.2
155°	15.2	16.7	16.7	16.7	15.2
157.5°	15.2	16.7	16.7	16.7	16.7
160°	15.2	16.7	16.7	16.7	16.7
162.5°	16.7	16.7	16.7	16.7	16.7
165°	16.7	16.7	16.7	16.7	16.7
167.5°	16.7	18.2	16.7	16.7	16.7
170°	16.7	16.7	16.7	15.2	15.2
172.5°	16.7	16.7	16.7	15.2	15.2
175°	16.7	16.7	15.2	13.7	13.7
177.5°	18.2	16.7	15.2	13.7	12.1
180°	15.2	15.2	15.2	15.2	15.2



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	7.6	28.8	74.3	89.5	92.5
110°	9.1	24.3	62.2	75.8	78.9



(END OF REPORT)