

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: P830831

Luminaire Tested: **OHBL-90SE-MCL-UNV-L930-CD**

Issue Date: 5/3/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P830831  
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-90SE-MCL-UNV-L930-CD  
Description: 90000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 3000K LEDS AND MEDIUM CLEAR LENS  
Light Source: -  
Ballast/Driver: -

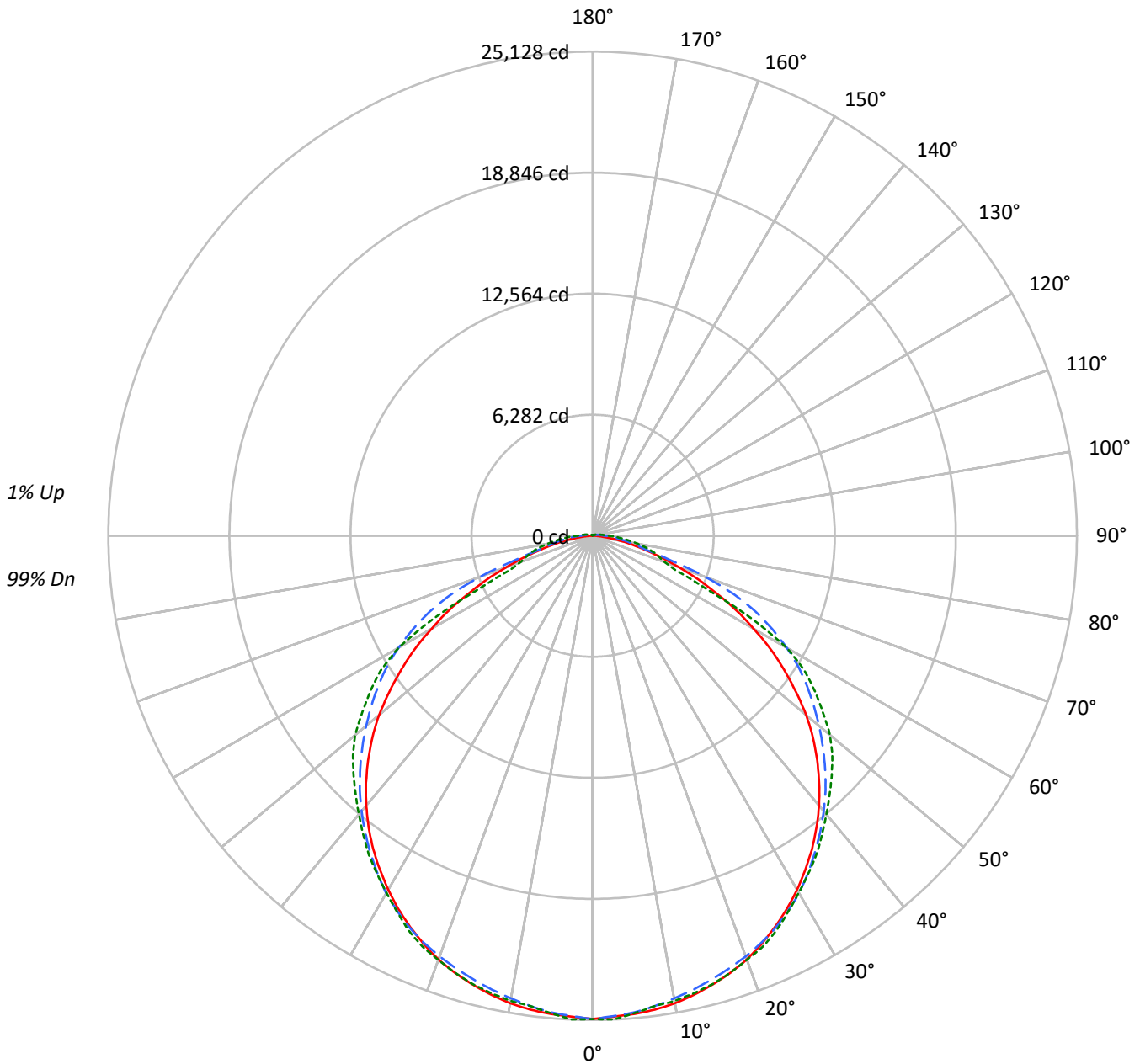
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 70880.0 lumens  
Efficiency: N/A  
Efficacy: 134.0 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): 529  
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	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°	39659	39659	39659
5°	39400	39083	39165
10°	39256	38491	38730
15°	39006	38048	38471
20°	38757	37770	38130
25°	38290	37489	37793
30°	37781	37046	37078
35°	37173	36344	36684
40°	36382	35618	36147
45°	35287	34778	35909
50°	33802	33823	35625
55°	31443	32882	34295
60°	28354	31506	31706
65°	24322	28952	20094
70°	19591	22601	14568
75°	14688	13417	14786
80°	10224	11156	14117
85°	5819	10222	13233



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2364.6	3.3
10°-20°	6780.5	9.6
20°-30°	10355.9	14.6
30°-40°	12565.3	17.7
40°-50°	13169.6	18.6
50°-60°	11933.6	16.8
60°-70°	8001.0	11.3
70°-80°	3592.8	5.1
80°-90°	1303.8	1.8
90°-100°	392.4	0.6
100°-110°	185.2	0.3
110°-120°	92.8	0.1
120°-130°	51.2	0.1
130°-140°	35.2	0.0
140°-150°	23.7	0.0
150°-160°	17.6	0.0
160°-170°	11.3	0.0
170°-180°	3.6	0.0
0°-30°	19500.9	27.5
0°-40°	32066.2	45.2
0°-60°	57169.4	80.7
0°-90°	70067.0	98.9
90°-120°	670.4	0.9
90°-150°	780.5	1.1
90°-180°	813.0	1.1
0°-180°	70880.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	25077	25077	25077	25077	25077	
5°	24914	25001	24827	24903	24871	###
15°	24106	24011	23841	24051	24080	6806
25°	22394	22296	22452	22659	22594	10322
35°	19849	19896	20099	20313	20233	12406
45°	16473	16741	17053	17488	17543	12690
55°	12122	12706	13572	14116	14083	10820
65°	7114	8227	9341	7883	6436	7088
75°	2799	4061	2988	3057	3256	3059
85°	482	925	1186	1432	1501	588
90°	4	308	613	769	805	29
95°	4	192	421	511	526	5
105°	14	83	207	250	261	17
115°	29	44	105	134	141	27
125°	25	29	65	76	80	25
135°	33	36	40	58	62	26
145°	33	36	36	40	44	22
155°	36	40	40	40	36	17
165°	40	40	40	40	40	11
175°	40	40	36	33	33	4
180°	36	36	36	36	36	



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CATALOG NUMBER: OHBL-90SE-MCL-UNV-L930-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	25077.4	25077.4	25077.4	25077.4	25077.4
2.5°	24975.9	25081.0	24950.5	25091.9	25128.2
5°	24914.2	25001.3	24827.2	24903.4	24870.7
7.5°	24801.8	24830.8	24624.2	24685.8	24620.5
10°	24635.0	24620.5	24377.6	24497.2	24511.7
12.5°	24388.5	24345.0	24127.4	24308.7	24312.3
15°	24105.6	24011.4	23840.9	24051.2	24080.3
17.5°	23779.3	23656.0	23543.6	23815.6	23772.0
20°	23398.6	23253.5	23231.8	23529.1	23420.3
22.5°	22927.2	22814.8	22865.5	23148.4	23079.5
25°	22394.2	22296.3	22452.2	22658.9	22593.6
27.5°	21832.1	21774.1	21951.8	22111.3	21984.4
30°	21215.7	21183.1	21418.8	21549.3	21389.8
32.5°	20544.9	20555.8	20780.6	20958.3	20809.6
35°	19848.7	19895.9	20098.9	20312.8	20233.1
37.5°	19083.6	19188.8	19391.8	19634.8	19551.4
40°	18275.0	18427.3	18652.1	18945.8	18869.7
42.5°	17401.2	17593.3	17883.4	18209.8	18202.5
45°	16472.9	16741.2	17053.1	17488.2	17542.6
47.5°	15508.4	15809.4	16204.6	16784.7	16868.1
50°	14460.5	14837.6	15330.7	16026.9	16077.7
52.5°	13292.9	13807.8	14460.5	15127.7	15066.0
55°	12121.7	12705.5	13572.1	14116.0	14083.4
57.5°	10954.1	11610.4	12662.0	13050.0	13046.3
60°	9648.8	10479.1	11628.6	11922.3	11632.2
62.5°	8441.3	9333.3	10526.3	10312.3	9318.8
65°	7114.2	8227.4	9340.6	7882.9	6436.1
67.5°	5935.8	7096.1	7933.7	5399.1	4623.1
70°	4750.1	6030.0	6186.0	4006.7	3952.3
72.5°	3698.5	5061.9	4267.8	3430.2	3604.2
75°	2799.3	4061.1	2987.8	3056.7	3256.1
77.5°	2041.4	3118.4	2324.3	2679.6	2842.8
80°	1403.3	2208.2	1896.4	2251.7	2364.2
82.5°	881.1	1457.7	1519.3	1813.0	1929.0
85°	482.3	924.6	1185.7	1432.3	1501.2
87.5°	199.4	558.4	906.5	1105.9	1163.9
90°	3.6	308.2	612.8	768.7	805.0
92.5°	3.6	235.7	500.4	620.0	645.4
95°	3.6	192.2	420.6	511.3	525.8
97.5°	7.3	152.3	351.7	424.2	438.7
100°	10.9	126.9	293.7	355.3	366.2
102.5°	14.5	101.5	246.6	297.3	308.2
105°	14.5	83.4	206.7	250.2	261.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	25.4	50.8	123.3	155.9	163.2
115°	29.0	43.5	105.2	134.2	141.4
117.5°	29.0	36.3	90.6	112.4	119.7
120°	29.0	32.6	79.8	97.9	101.5
122.5°	29.0	29.0	68.9	87.0	90.6
125°	25.4	29.0	65.3	76.1	79.8
127.5°	29.0	29.0	58.0	68.9	72.5
130°	29.0	32.6	50.8	65.3	65.3
132.5°	32.6	36.3	47.1	61.6	61.6
135°	32.6	36.3	39.9	58.0	61.6
137.5°	36.3	36.3	36.3	54.4	58.0
140°	36.3	36.3	32.6	47.1	50.8
142.5°	32.6	36.3	32.6	43.5	47.1
145°	32.6	36.3	36.3	39.9	43.5
147.5°	36.3	36.3	36.3	36.3	39.9
150°	36.3	36.3	36.3	36.3	36.3
152.5°	36.3	36.3	36.3	36.3	36.3
155°	36.3	39.9	39.9	39.9	36.3
157.5°	36.3	39.9	39.9	39.9	39.9
160°	36.3	39.9	39.9	39.9	39.9
162.5°	39.9	39.9	39.9	39.9	39.9
165°	39.9	39.9	39.9	39.9	39.9
167.5°	39.9	43.5	39.9	39.9	39.9
170°	39.9	39.9	39.9	36.3	36.3
172.5°	39.9	39.9	39.9	36.3	36.3
175°	39.9	39.9	36.3	32.6	32.6
177.5°	43.5	39.9	36.3	32.6	29.0
180°	36.3	36.3	36.3	36.3	36.3



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	18.1	68.9	177.7	213.9	221.2
110°	21.8	58.0	148.7	181.3	188.6



(END OF REPORT)