

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: P830829

Luminaire Tested: **OHBL-90SE-MCL-UNV-L840-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830829
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-L840-CD
Description: 90000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND MEDIUM CLEAR LENS
Light Source: -
Ballast/Driver: -

Summary

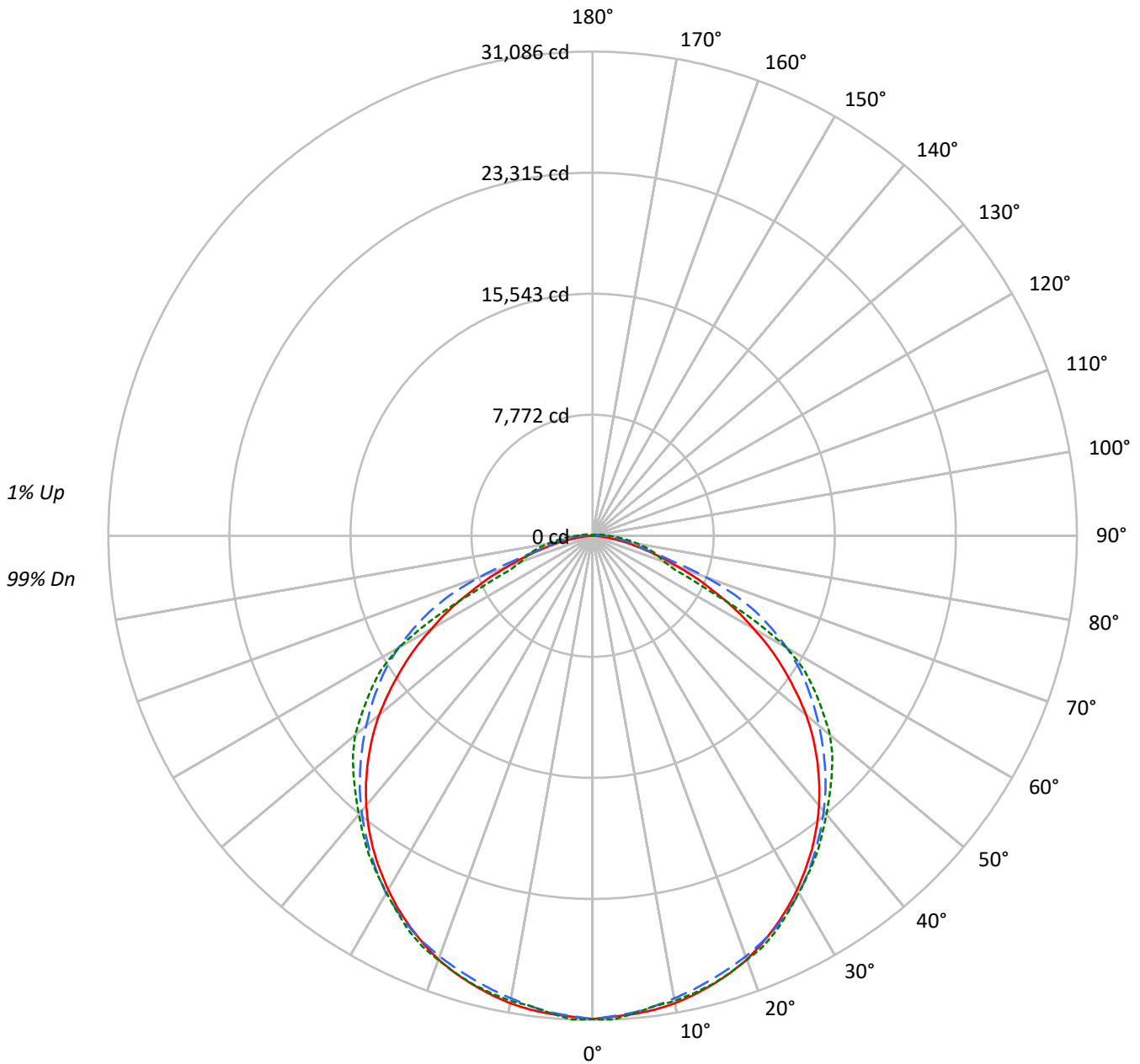
Lumens per Lamp: N/A
Luminaire Lumens: 87687.0 lumens
Efficiency: N/A
Efficacy: 165.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 529
Input Voltage (V): NR
Input Current (A_{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

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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°	49063	49063	49063
5°	48742	48350	48452
10°	48564	47618	47914
15°	48256	47070	47593
20°	47947	46726	47172
25°	47369	46378	46754
30°	46740	45830	45870
35°	45987	44961	45382
40°	45009	44064	44718
45°	43654	43025	44424
50°	41817	41843	44072
55°	38898	40679	42427
60°	35077	38976	39224
65°	30090	35817	24859
70°	24236	27961	18023
75°	18171	16598	18292
80°	12648	13801	17464
85°	7198	12646	16370



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2925.3	3.3
10°-20°	8388.2	9.6
20°-30°	12811.5	14.6
30°-40°	15544.7	17.7
40°-50°	16292.4	18.6
50°-60°	14763.3	16.8
60°-70°	9898.2	11.3
70°-80°	4444.7	5.1
80°-90°	1612.9	1.8
90°-100°	485.5	0.6
100°-110°	229.1	0.3
110°-120°	114.8	0.1
120°-130°	63.3	0.1
130°-140°	43.6	0.0
140°-150°	29.3	0.0
150°-160°	21.8	0.0
160°-170°	14.0	0.0
170°-180°	4.4	0.0
0°-30°	24125.0	27.5
0°-40°	39669.7	45.2
0°-60°	70725.4	80.7
0°-90°	86681.3	98.9
90°-120°	829.4	0.9
90°-150°	965.6	1.1
90°-180°	1006.0	1.1
0°-180°	87687.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	31024	31024	31024	31024	31024	
5°	30822	30930	30714	30808	30768	###
15°	29822	29705	29494	29754	29790	8420
25°	27704	27583	27776	28032	27951	12770
35°	24555	24614	24865	25129	25031	15348
45°	20379	20711	21097	21635	21702	15699
55°	14996	15718	16790	17463	17423	13386
65°	8801	10178	11555	9752	7962	8769
75°	3463	5024	3696	3782	4028	3785
85°	597	1144	1467	1772	1857	728
90°	4	381	758	951	996	36
95°	4	238	520	632	650	6
105°	18	103	256	310	323	21
115°	36	54	130	166	175	33
125°	31	36	81	94	99	31
135°	40	45	49	72	76	32
145°	40	45	45	49	54	27
155°	45	49	49	49	45	21
165°	49	49	49	49	49	14
175°	49	49	45	40	40	5
180°	45	45	45	45	45	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	31023.7	31023.7	31023.7	31023.7	<i>31023.7</i>
2.5°	<i>30898.1</i>	<i>31028.2</i>	<i>30866.7</i>	<i>31041.7</i>	<i>31086.5</i>
5°	30821.9	30929.5	30714.2	30808.4	<i>30768.0</i>
7.5°	30682.8	30718.7	30463.0	30539.3	<i>30458.5</i>
10°	30476.5	30458.5	30158.0	30306.0	<i>30324.0</i>
12.5°	30171.4	30117.6	29848.5	30072.7	<i>30077.2</i>
15°	29821.5	29704.9	29494.1	29754.3	<i>29790.1</i>
17.5°	29417.8	29265.3	29126.2	29462.7	<i>29408.8</i>
20°	28946.8	28767.4	28740.5	29108.3	<i>28973.7</i>
22.5°	28363.7	28224.6	28287.4	28637.3	<i>28552.1</i>
25°	27704.2	27583.1	27776.0	28031.7	<i>27951.0</i>
27.5°	27009.0	26937.2	27157.0	27354.4	<i>27197.4</i>
30°	26246.4	26206.0	26497.6	26659.1	<i>26461.7</i>
32.5°	25416.5	25430.0	25708.1	25927.9	<i>25744.0</i>
35°	24555.2	24613.5	24864.7	25129.4	<i>25030.7</i>
37.5°	23608.7	23738.8	23990.0	24290.6	<i>24187.4</i>
40°	22608.4	22796.8	23074.9	23438.3	<i>23344.1</i>
42.5°	21527.3	21765.1	22123.9	22527.6	<i>22518.7</i>
45°	20379.0	20710.9	21096.7	21635.0	<i>21702.3</i>
47.5°	19185.7	19558.1	20047.0	20764.7	<i>20867.9</i>
50°	17889.3	18355.9	18965.9	19827.2	<i>19890.0</i>
52.5°	16444.9	17081.9	17889.3	18714.7	<i>18638.5</i>
55°	14996.0	15718.2	16790.3	17463.2	<i>17422.8</i>
57.5°	13551.6	14363.5	15664.4	16144.4	<i>16139.9</i>
60°	11936.7	12963.9	14385.9	14749.3	<i>14390.4</i>
62.5°	10442.9	11546.4	13022.3	12757.6	<i>11528.5</i>
65°	8801.1	10178.3	11555.4	9752.1	<i>7962.3</i>
67.5°	7343.2	8778.7	9814.9	6679.3	<i>5719.4</i>
70°	5876.4	7459.9	7652.8	4956.8	<i>4889.5</i>
72.5°	4575.5	6262.2	5279.8	4243.6	<i>4458.9</i>
75°	3463.0	5024.1	3696.3	3781.5	<i>4028.2</i>
77.5°	2525.5	3857.8	2875.4	3315.0	<i>3516.9</i>
80°	1736.0	2731.8	2346.1	2785.7	<i>2924.7</i>
82.5°	1090.0	1803.3	1879.5	2242.9	<i>2386.4</i>
85°	596.6	1143.9	1466.9	1771.9	<i>1857.1</i>
87.5°	246.7	690.8	1121.4	1368.2	<i>1439.9</i>
90°	4.5	381.3	758.1	951.0	<i>995.8</i>
92.5°	4.5	291.6	619.0	767.1	<i>798.5</i>
95°	4.5	237.7	520.4	632.5	<i>650.4</i>
97.5°	9.0	188.4	435.1	524.8	<i>542.8</i>
100°	13.5	157.0	363.3	439.6	<i>453.1</i>
102.5°	17.9	125.6	305.0	367.8	<i>381.3</i>
105°	17.9	103.2	255.7	309.5	<i>323.0</i>



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	31.4	62.8	152.5	192.9	201.9
115°	35.9	53.8	130.1	166.0	174.9
117.5°	35.9	44.9	112.1	139.1	148.0
120°	35.9	40.4	98.7	121.1	125.6
122.5°	35.9	35.9	85.2	107.7	112.1
125°	31.4	35.9	80.7	94.2	98.7
127.5°	35.9	35.9	71.8	85.2	89.7
130°	35.9	40.4	62.8	80.7	80.7
132.5°	40.4	44.9	58.3	76.3	76.3
135°	40.4	44.9	49.3	71.8	76.3
137.5°	44.9	44.9	44.9	67.3	71.8
140°	44.9	44.9	40.4	58.3	62.8
142.5°	40.4	44.9	40.4	53.8	58.3
145°	40.4	44.9	44.9	49.3	53.8
147.5°	44.9	44.9	44.9	44.9	49.3
150°	44.9	44.9	44.9	44.9	44.9
152.5°	44.9	44.9	44.9	44.9	44.9
155°	44.9	49.3	49.3	49.3	44.9
157.5°	44.9	49.3	49.3	49.3	49.3
160°	44.9	49.3	49.3	49.3	49.3
162.5°	49.3	49.3	49.3	49.3	49.3
165°	49.3	49.3	49.3	49.3	49.3
167.5°	49.3	53.8	49.3	49.3	49.3
170°	49.3	49.3	49.3	44.9	44.9
172.5°	49.3	49.3	49.3	44.9	44.9
175°	49.3	49.3	44.9	40.4	40.4
177.5°	53.8	49.3	44.9	40.4	35.9
180°	44.9	44.9	44.9	44.9	44.9



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	22.4	85.2	219.8	264.7	273.6
110°	26.9	71.8	183.9	224.3	233.3



(END OF REPORT)