

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: P830811

Luminaire Tested: **OHBL-90SE-A-UNV-L730-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830811
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-A-UNV-L730-CD
Description: 90000 LUMEN OHBL SE LED LUMINAIRE WITH 70CRI, 3000K LEDS AND AISLE LENS
Light Source: -
Ballast/Driver: -

Summary

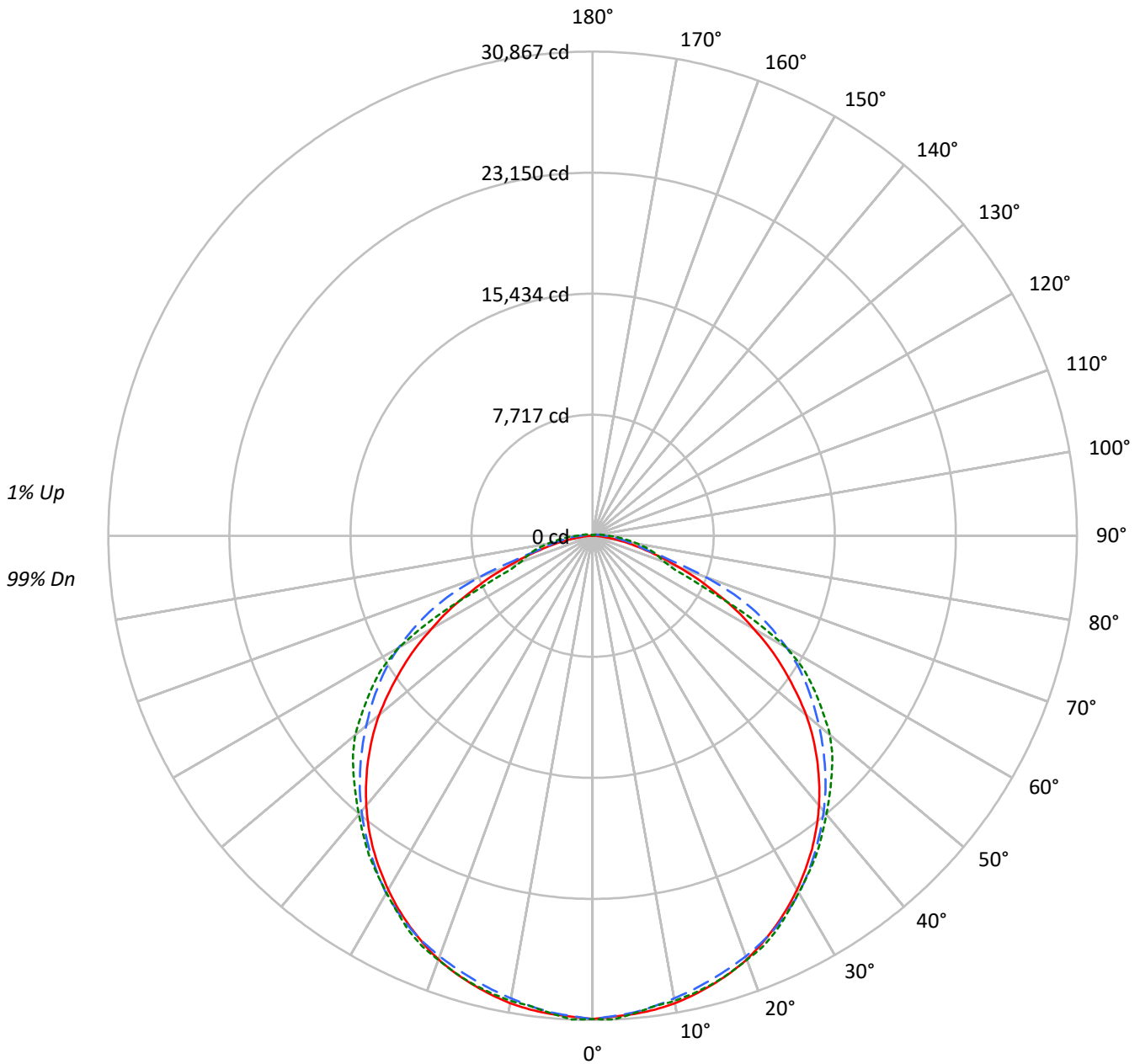
Lumens per Lamp: N/A
Luminaire Lumens: 87067.9 lumens
Efficiency: N/A
Efficacy: 164.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

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

TEST NUMBER: P830811

CATALOG NUMBER: OHBL-90SE-A-UNV-L730-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°	48717	48717	48717
5°	48398	48009	48110
10°	48221	47282	47576
15°	47915	46738	47257
20°	47609	46396	46839
25°	47035	46050	46424
30°	46410	45507	45546
35°	45663	44644	45062
40°	44692	43752	44402
45°	43346	42721	44110
50°	41522	41547	43761
55°	38623	40392	42127
60°	34829	38701	38947
65°	29877	35564	24683
70°	24065	27763	17896
75°	18043	16481	18163
80°	12558	13704	17341
85°	7148	12556	16254



TEST NUMBER: P830811

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2904.6	3.3
10°-20°	8329.0	9.6
20°-30°	12721.0	14.6
30°-40°	15435.0	17.7
40°-50°	16177.3	18.6
50°-60°	14659.1	16.8
60°-70°	9828.3	11.3
70°-80°	4413.4	5.1
80°-90°	1601.6	1.8
90°-100°	482.1	0.6
100°-110°	227.5	0.3
110°-120°	114.0	0.1
120°-130°	62.9	0.1
130°-140°	43.2	0.0
140°-150°	29.1	0.0
150°-160°	21.6	0.0
160°-170°	13.9	0.0
170°-180°	4.4	0.0
0°-30°	23954.7	27.5
0°-40°	39389.7	45.2
0°-60°	70226.1	80.7
0°-90°	86069.3	98.9
90°-120°	823.5	0.9
90°-150°	958.7	1.1
90°-180°	999.0	1.1
0°-180°	87067.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	30805	30805	30805	30805	30805	
5°	30604	30711	30497	30591	30551	###
15°	29611	29495	29286	29544	29580	8360
25°	27509	27388	27580	27834	27754	12680
35°	24382	24440	24689	24952	24854	15239
45°	20235	20565	20948	21482	21549	15588
55°	14890	15607	16672	17340	17300	13291
65°	8739	10106	11474	9683	7906	8707
75°	3439	4989	3670	3755	4000	3758
85°	592	1136	1456	1759	1844	723
90°	4	379	753	944	989	35
95°	4	236	517	628	646	6
105°	18	102	254	307	321	21
115°	36	53	129	165	174	33
125°	31	36	80	94	98	31
135°	40	44	49	71	76	32
145°	40	44	44	49	53	27
155°	44	49	49	49	44	21
165°	49	49	49	49	49	14
175°	49	49	44	40	40	5
180°	44	44	44	44	44	



TEST NUMBER: P830811

CATALOG NUMBER: OHBL-90SE-A-UNV-L730-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	30804.7	30804.7	30804.7	30804.7	<i>30804.7</i>
2.5°	<i>30680.0</i>	<i>30809.2</i>	<i>30648.8</i>	<i>30822.5</i>	<i>30867.1</i>
5°	30604.3	30711.2	30497.4	30590.9	<i>30550.8</i>
7.5°	30466.2	30501.9	30248.0	30323.7	<i>30243.5</i>
10°	30261.3	30243.5	29945.1	30092.1	<i>30109.9</i>
12.5°	29958.4	29905.0	29637.8	29860.5	<i>29864.9</i>
15°	29611.0	29495.2	29285.9	29544.2	<i>29579.8</i>
17.5°	29210.2	29058.7	28920.6	29254.7	<i>29201.2</i>
20°	28742.5	28564.3	28537.6	28902.8	<i>28769.2</i>
22.5°	28163.4	28025.4	28087.7	28435.1	<i>28350.5</i>
25°	27508.7	27388.4	27579.9	27833.8	<i>27753.7</i>
27.5°	26818.3	26747.0	26965.3	27161.3	<i>27005.4</i>
30°	26061.1	26021.0	26310.5	26470.9	<i>26274.9</i>
32.5°	25237.1	25250.4	25526.6	25744.8	<i>25562.2</i>
35°	24381.9	24439.8	24689.2	24952.0	<i>24854.0</i>
37.5°	23442.1	23571.2	23820.7	24119.1	<i>24016.6</i>
40°	22448.8	22635.9	22912.0	23272.8	<i>23179.3</i>
42.5°	21375.3	21611.4	21967.7	22368.6	<i>22359.7</i>
45°	20235.1	20564.7	20947.8	21482.2	<i>21549.1</i>
47.5°	19050.3	19420.0	19905.5	20618.1	<i>20720.6</i>
50°	17763.1	18226.3	18832.0	19687.2	<i>19749.6</i>
52.5°	16328.8	16961.3	17763.1	18582.6	<i>18506.9</i>
55°	14890.1	15607.3	16671.8	17339.9	<i>17299.8</i>
57.5°	13455.9	14262.1	15553.8	16030.4	<i>16025.9</i>
60°	11852.4	12872.4	14284.4	14645.2	<i>14288.8</i>
62.5°	10369.2	11464.9	12930.3	12667.5	<i>11447.1</i>
65°	8739.0	10106.4	11473.8	9683.3	<i>7906.1</i>
67.5°	7291.4	8716.7	9745.6	6632.2	<i>5679.0</i>
70°	5834.9	7407.2	7598.7	4921.8	<i>4855.0</i>
72.5°	4543.2	6218.0	5242.5	4213.6	<i>4427.4</i>
75°	3438.6	4988.6	3670.2	3754.8	<i>3999.8</i>
77.5°	2507.7	3830.5	2855.1	3291.6	<i>3492.0</i>
80°	1723.7	2712.6	2329.5	2766.0	<i>2904.1</i>
82.5°	1082.4	1790.6	1866.3	2227.1	<i>2369.6</i>
85°	592.4	1135.8	1456.5	1759.4	<i>1844.0</i>
87.5°	245.0	685.9	1113.5	1358.5	<i>1429.8</i>
90°	4.5	378.6	752.7	944.3	<i>988.8</i>
92.5°	4.5	289.5	614.7	761.7	<i>792.8</i>
95°	4.5	236.1	516.7	628.0	<i>645.8</i>
97.5°	8.9	187.1	432.1	521.1	<i>538.9</i>
100°	13.4	155.9	360.8	436.5	<i>449.9</i>
102.5°	17.8	124.7	302.9	365.2	<i>378.6</i>
105°	17.8	102.4	253.9	307.3	<i>320.7</i>



TEST NUMBER: P830811

CATALOG NUMBER: OHBL-90SE-A-UNV-L730-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	31.2	62.4	151.4	191.5	200.4
115°	35.6	53.4	129.2	164.8	173.7
117.5°	35.6	44.5	111.4	138.1	147.0
120°	35.6	40.1	98.0	120.3	124.7
122.5°	35.6	35.6	84.6	106.9	111.4
125°	31.2	35.6	80.2	93.5	98.0
127.5°	35.6	35.6	71.3	84.6	89.1
130°	35.6	40.1	62.4	80.2	80.2
132.5°	40.1	44.5	57.9	75.7	75.7
135°	40.1	44.5	49.0	71.3	75.7
137.5°	44.5	44.5	44.5	66.8	71.3
140°	44.5	44.5	40.1	57.9	62.4
142.5°	40.1	44.5	40.1	53.4	57.9
145°	40.1	44.5	44.5	49.0	53.4
147.5°	44.5	44.5	44.5	44.5	49.0
150°	44.5	44.5	44.5	44.5	44.5
152.5°	44.5	44.5	44.5	44.5	44.5
155°	44.5	49.0	49.0	49.0	44.5
157.5°	44.5	49.0	49.0	49.0	49.0
160°	44.5	49.0	49.0	49.0	49.0
162.5°	49.0	49.0	49.0	49.0	49.0
165°	49.0	49.0	49.0	49.0	49.0
167.5°	49.0	53.4	49.0	49.0	49.0
170°	49.0	49.0	49.0	44.5	44.5
172.5°	49.0	49.0	49.0	44.5	44.5
175°	49.0	49.0	44.5	40.1	40.1
177.5°	53.4	49.0	44.5	40.1	35.6
180°	44.5	44.5	44.5	44.5	44.5



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	22.3	84.6	218.3	262.8	271.7
110°	26.7	71.3	182.6	222.7	231.6



(END OF REPORT)