

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: P830817

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830817
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-L840-CD
Description: 90000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND AISLE LENS
Light Source: -
Ballast/Driver: -

Summary

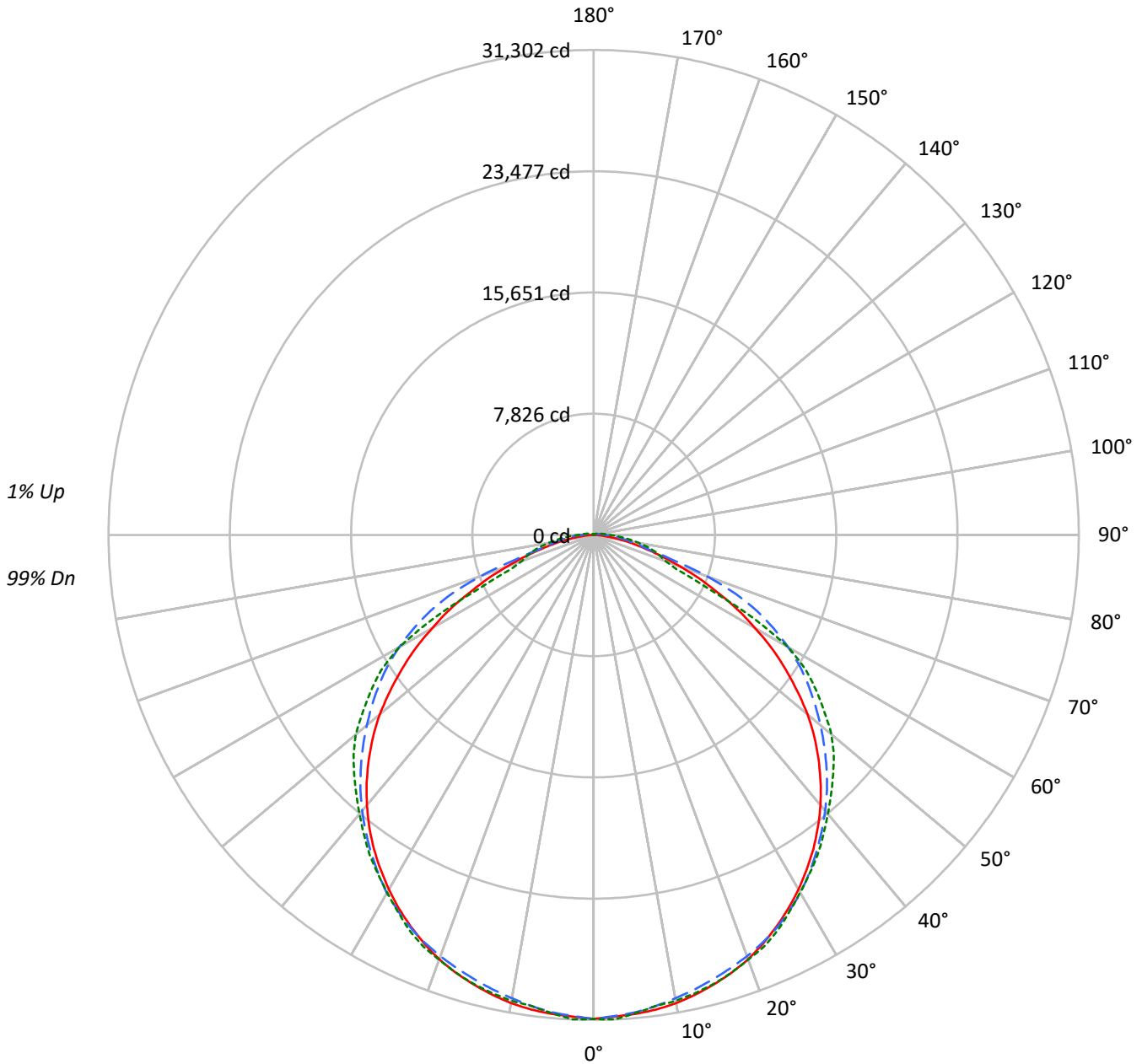
Lumens per Lamp: N/A
Luminaire Lumens: 88295.0 lumens
Efficiency: N/A
Efficacy: 166.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

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°	49403	49403	49403
5°	49080	48686	48788
10°	48901	47948	48246
15°	48590	47397	47923
20°	48280	47049	47499
25°	47698	46699	47079
30°	47064	46148	46188
35°	46306	45273	45697
40°	45321	44369	45028
45°	43957	43323	44732
50°	42107	42133	44377
55°	39168	40961	42721
60°	35320	39247	39496
65°	30298	36065	25031
70°	24404	28154	18148
75°	18296	16713	18419
80°	12735	13896	17585
85°	7248	12733	16483



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2945.5	3.3
10°-20°	8446.4	9.6
20°-30°	12900.3	14.6
30°-40°	15652.5	17.7
40°-50°	16405.3	18.6
50°-60°	14865.7	16.8
60°-70°	9966.9	11.3
70°-80°	4475.5	5.1
80°-90°	1624.1	1.8
90°-100°	488.9	0.6
100°-110°	230.7	0.3
110°-120°	115.6	0.1
120°-130°	63.8	0.1
130°-140°	43.9	0.0
140°-150°	29.5	0.0
150°-160°	21.9	0.0
160°-170°	14.1	0.0
170°-180°	4.5	0.0
0°-30°	24292.2	27.5
0°-40°	39944.8	45.2
0°-60°	71215.8	80.7
0°-90°	87282.3	98.9
90°-120°	835.1	0.9
90°-150°	972.3	1.1
90°-180°	1013.0	1.1
0°-180°	88295.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	31239	31239	31239	31239	31239	
5°	31036	31144	30927	31022	30981	###
15°	30028	29911	29699	29961	29997	8478
25°	27896	27774	27969	28226	28145	12859
35°	24726	24784	25037	25304	25204	15454
45°	20520	20854	21243	21785	21853	15808
55°	15100	15827	16907	17584	17544	13479
65°	8862	10249	11636	9820	8018	8830
75°	3487	5059	3722	3808	4056	3811
85°	601	1152	1477	1784	1870	733
90°	4	384	763	958	1003	36
95°	4	239	524	637	655	6
105°	18	104	258	312	325	21
115°	36	54	131	167	176	34
125°	32	36	81	95	99	31
135°	41	45	50	72	77	32
145°	41	45	45	50	54	27
155°	45	50	50	50	45	21
165°	50	50	50	50	50	14
175°	50	50	45	41	41	5
180°	45	45	45	45	45	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	31238.8	31238.8	31238.8	31238.8	<i>31238.8</i>
2.5°	<i>31112.4</i>	<i>31243.4</i>	<i>31080.8</i>	<i>31256.9</i>	<i>31302.1</i>
5°	31035.6	31144.0	30927.2	31022.0	<i>30981.4</i>
7.5°	30895.6	30931.7	30674.2	30751.0	<i>30669.7</i>
10°	30687.8	30669.7	30367.1	30516.1	<i>30534.2</i>
12.5°	30380.6	30326.4	30055.4	30281.3	<i>30285.8</i>
15°	30028.3	29910.9	29698.6	29960.6	<i>29996.7</i>
17.5°	29621.8	29468.2	29328.2	29667.0	<i>29612.8</i>
20°	29147.5	28966.8	28939.7	29310.1	<i>29174.6</i>
22.5°	28560.3	28420.3	28483.5	28835.9	<i>28750.0</i>
25°	27896.3	27774.4	27968.6	28226.1	<i>28144.8</i>
27.5°	27196.2	27124.0	27345.3	27544.0	<i>27385.9</i>
30°	26428.4	26387.7	26681.3	26843.9	<i>26645.2</i>
32.5°	25592.7	25606.3	25886.3	26107.7	<i>25922.5</i>
35°	24725.5	24784.2	25037.1	25303.6	<i>25204.3</i>
37.5°	23772.4	23903.4	24156.4	24459.0	<i>24355.1</i>
40°	22765.2	22954.9	23234.9	23600.8	<i>23505.9</i>
42.5°	21676.6	21916.0	22277.3	22683.8	<i>22674.8</i>
45°	20520.3	20854.5	21243.0	21785.0	<i>21852.7</i>
47.5°	19318.8	19693.7	20186.0	20908.7	<i>21012.6</i>
50°	18013.4	18483.1	19097.4	19964.7	<i>20027.9</i>
52.5°	16558.9	17200.3	18013.4	18844.5	<i>18767.7</i>
55°	15100.0	15827.2	16906.7	17584.3	<i>17543.6</i>
57.5°	13645.5	14463.1	15773.0	16256.3	<i>16251.8</i>
60°	12019.5	13053.8	14485.7	14851.6	<i>14490.2</i>
62.5°	10515.3	11626.5	13112.5	12846.0	<i>11608.4</i>
65°	8862.1	10248.8	11635.5	9819.7	<i>8017.5</i>
67.5°	7394.2	8839.6	9883.0	6725.7	<i>5759.0</i>
70°	5917.1	7511.6	7705.8	4991.2	<i>4923.4</i>
72.5°	4607.2	6305.6	5316.4	4273.0	<i>4489.8</i>
75°	3487.0	5058.9	3721.9	3807.7	<i>4056.2</i>
77.5°	2543.0	3884.5	2895.3	3338.0	<i>3541.2</i>
80°	1748.0	2750.8	2362.3	2805.0	<i>2945.0</i>
82.5°	1097.6	1815.8	1892.6	2258.4	<i>2403.0</i>
85°	600.7	1151.8	1477.0	1784.2	<i>1870.0</i>
87.5°	248.4	695.6	1129.2	1377.7	<i>1449.9</i>
90°	4.5	383.9	763.4	957.6	<i>1002.8</i>
92.5°	4.5	293.6	623.3	772.4	<i>804.0</i>
95°	4.5	239.4	524.0	636.9	<i>654.9</i>
97.5°	9.0	189.7	438.1	528.5	<i>546.5</i>
100°	13.6	158.1	365.9	442.7	<i>456.2</i>
102.5°	18.1	126.5	307.1	370.4	<i>383.9</i>
105°	18.1	103.9	257.5	311.7	<i>325.2</i>



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	31.6	63.2	153.6	194.2	203.3
115°	36.1	54.2	131.0	167.1	176.2
117.5°	36.1	45.2	112.9	140.0	149.1
120°	36.1	40.7	99.4	122.0	126.5
122.5°	36.1	36.1	85.8	108.4	112.9
125°	31.6	36.1	81.3	94.9	99.4
127.5°	36.1	36.1	72.3	85.8	90.3
130°	36.1	40.7	63.2	81.3	81.3
132.5°	40.7	45.2	58.7	76.8	76.8
135°	40.7	45.2	49.7	72.3	76.8
137.5°	45.2	45.2	45.2	67.8	72.3
140°	45.2	45.2	40.7	58.7	63.2
142.5°	40.7	45.2	40.7	54.2	58.7
145°	40.7	45.2	45.2	49.7	54.2
147.5°	45.2	45.2	45.2	45.2	49.7
150°	45.2	45.2	45.2	45.2	45.2
152.5°	45.2	45.2	45.2	45.2	45.2
155°	45.2	49.7	49.7	49.7	45.2
157.5°	45.2	49.7	49.7	49.7	49.7
160°	45.2	49.7	49.7	49.7	49.7
162.5°	49.7	49.7	49.7	49.7	49.7
165°	49.7	49.7	49.7	49.7	49.7
167.5°	49.7	54.2	49.7	49.7	49.7
170°	49.7	49.7	49.7	45.2	45.2
172.5°	49.7	49.7	49.7	45.2	45.2
175°	49.7	49.7	45.2	40.7	40.7
177.5°	54.2	49.7	45.2	40.7	36.1
180°	45.2	45.2	45.2	45.2	45.2



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	22.6	85.8	221.3	266.5	275.5
110°	27.1	72.3	185.2	225.8	234.9



(END OF REPORT)