

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: P830815

Luminaire Tested: **OHBL-90SE-A-UNV-L830-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830815
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-L830-CD
Description: 90000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 3000K LEDS AND AISLE LENS
Light Source: -
Ballast/Driver: -

Summary

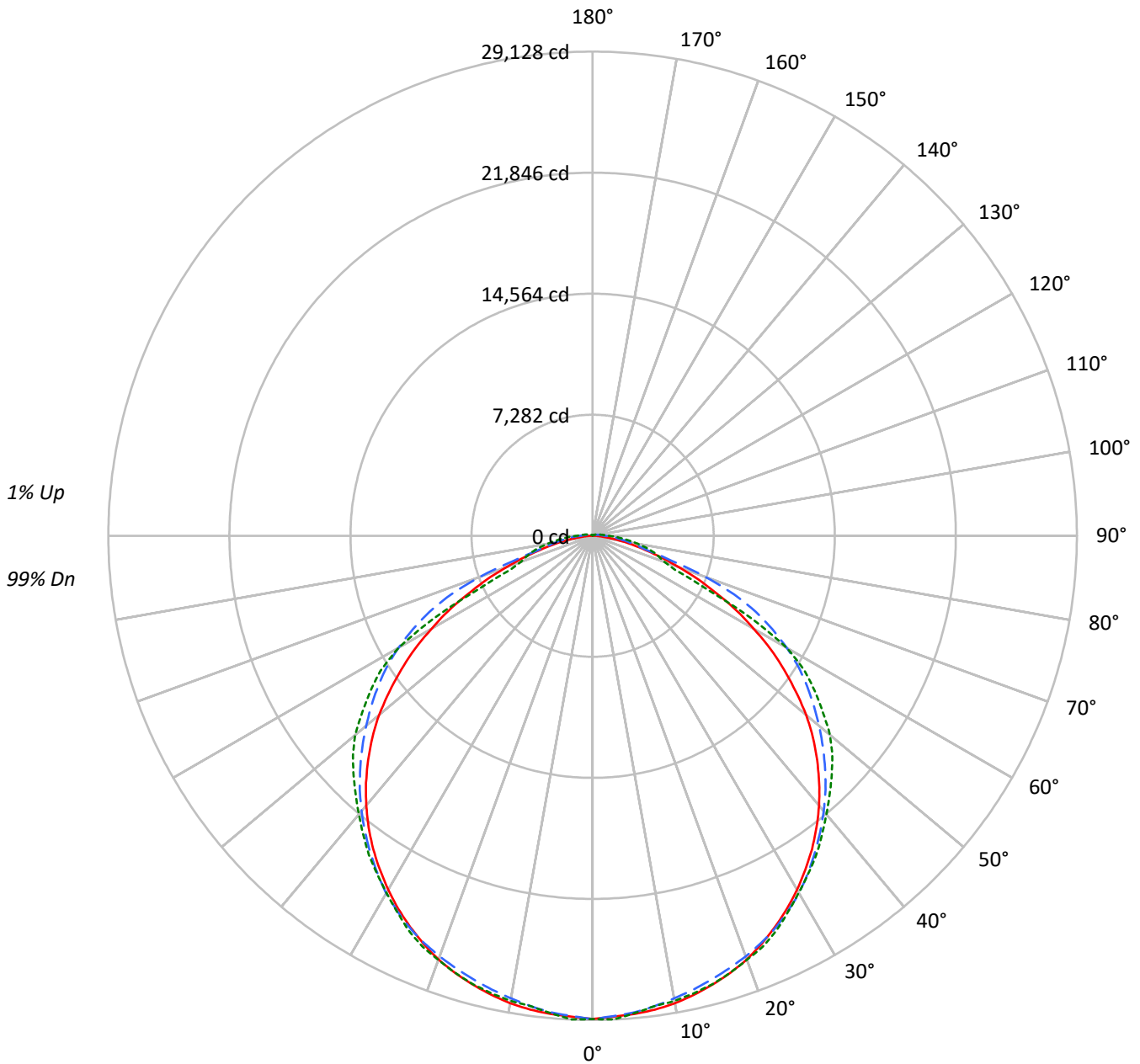
Lumens per Lamp: N/A
Luminaire Lumens: 82163.0 lumens
Efficiency: N/A
Efficacy: 155.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

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°	45972	45972	45972
5°	45672	45304	45400
10°	45504	44618	44895
15°	45216	44105	44595
20°	44927	43782	44200
25°	44385	43456	43809
30°	43795	42943	42980
35°	43090	42129	42523
40°	42174	41288	41901
45°	40904	40315	41625
50°	39183	39207	41296
55°	36448	38116	39754
60°	32867	36521	36753
65°	28194	33560	23293
70°	22710	26199	16888
75°	17026	15552	17140
80°	11851	12932	16364
85°	6745	11849	15338



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2741.0	3.3
10°-20°	7859.8	9.6
20°-30°	12004.4	14.6
30°-40°	14565.4	17.7
40°-50°	15266.0	18.6
50°-60°	13833.3	16.8
60°-70°	9274.7	11.3
70°-80°	4164.7	5.1
80°-90°	1511.3	1.8
90°-100°	454.9	0.6
100°-110°	214.7	0.3
110°-120°	107.6	0.1
120°-130°	59.4	0.1
130°-140°	40.8	0.0
140°-150°	27.4	0.0
150°-160°	20.4	0.0
160°-170°	13.1	0.0
170°-180°	4.2	0.0
0°-30°	22605.2	27.5
0°-40°	37170.6	45.2
0°-60°	66269.9	80.7
0°-90°	81220.6	98.9
90°-120°	777.1	0.9
90°-150°	904.7	1.1
90°-180°	942.0	1.1
0°-180°	82163.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	29069	29069	29069	29069	29069	
5°	28880	28981	28779	28868	28830	###
15°	27943	27834	27636	27880	27914	7889
25°	25959	25846	26026	26266	26190	11966
35°	23008	23063	23298	23546	23454	14381
45°	19095	19406	19768	20272	20335	14710
55°	14051	14728	15733	16363	16325	12543
65°	8247	9537	10827	9138	7461	8217
75°	3245	4708	3463	3543	3774	3546
85°	559	1072	1374	1660	1740	682
90°	4	357	710	891	933	33
95°	4	223	488	593	610	6
105°	17	97	240	290	303	19
115°	34	50	122	156	164	31
125°	29	34	76	88	92	29
135°	38	42	46	67	72	30
145°	38	42	42	46	50	25
155°	42	46	46	46	42	19
165°	46	46	46	46	46	13
175°	46	46	42	38	38	4
180°	42	42	42	42	42	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	29069.3	29069.3	29069.3	29069.3	<i>29069.3</i>
2.5°	<i>28951.6</i>	<i>29073.5</i>	<i>28922.2</i>	<i>29086.2</i>	<i>29128.2</i>
5°	28880.2	28981.1	28779.3	28867.6	<i>28829.8</i>
7.5°	28749.9	28783.5	28543.9	28615.4	<i>28539.7</i>
10°	28556.5	28539.7	28258.1	28396.8	<i>28413.6</i>
12.5°	28270.7	28220.3	27968.1	28178.3	<i>28182.5</i>
15°	27942.9	27833.6	27636.0	27879.8	<i>27913.5</i>
17.5°	27564.6	27421.7	27291.4	27606.6	<i>27556.2</i>
20°	27123.3	26955.1	26929.9	27274.6	<i>27148.5</i>
22.5°	26576.8	26446.5	26505.4	26833.2	<i>26753.4</i>
25°	25959.0	25845.5	26026.2	26265.8	<i>26190.1</i>
27.5°	25307.5	25240.2	25446.2	25631.1	<i>25484.0</i>
30°	24592.9	24555.1	24828.3	24979.6	<i>24794.7</i>
32.5°	23815.3	23827.9	24088.5	24294.5	<i>24122.2</i>
35°	23008.3	23063.0	23298.3	23546.3	<i>23453.9</i>
37.5°	22121.4	22243.3	22478.7	22760.3	<i>22663.7</i>
40°	21184.1	21360.7	21621.3	21961.7	<i>21873.5</i>
42.5°	20171.2	20393.9	20730.2	21108.5	<i>21100.1</i>
45°	19095.1	19406.2	19767.7	20272.0	<i>20335.1</i>
47.5°	17977.1	18326.0	18784.1	19456.6	<i>19553.3</i>
50°	16762.4	17199.5	17771.1	18578.1	<i>18637.0</i>
52.5°	15408.9	16005.8	16762.4	17535.8	<i>17464.3</i>
55°	14051.3	14728.0	15732.6	16363.1	<i>16325.2</i>
57.5°	12697.9	13458.6	14677.6	15127.3	<i>15123.1</i>
60°	11184.7	12147.3	13479.7	13820.1	<i>13483.9</i>
62.5°	9785.1	10819.0	12201.9	11953.9	<i>10802.2</i>
65°	8246.7	9537.1	10827.4	9137.8	<i>7460.7</i>
67.5°	6880.6	8225.7	9196.6	6258.6	<i>5359.1</i>
70°	5506.2	6989.9	7170.7	4644.5	<i>4581.5</i>
72.5°	4287.3	5867.7	4947.2	3976.2	<i>4178.0</i>
75°	3244.9	4707.6	3463.4	3543.3	<i>3774.5</i>
77.5°	2366.4	3614.8	2694.3	3106.2	<i>3295.3</i>
80°	1626.6	2559.7	2198.3	2610.2	<i>2740.5</i>
82.5°	1021.4	1689.7	1761.1	2101.6	<i>2236.1</i>
85°	559.0	1071.8	1374.4	1660.3	<i>1740.1</i>
87.5°	231.2	647.3	1050.8	1282.0	<i>1349.2</i>
90°	4.2	357.3	710.3	891.1	<i>933.1</i>
92.5°	4.2	273.2	580.0	718.7	<i>748.2</i>
95°	4.2	222.8	487.6	592.7	<i>609.5</i>
97.5°	8.4	176.5	407.7	491.8	<i>508.6</i>
100°	12.6	147.1	340.5	411.9	<i>424.5</i>
102.5°	16.8	117.7	285.8	344.7	<i>357.3</i>
105°	16.8	96.7	239.6	290.0	<i>302.6</i>



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	29.4	58.8	142.9	180.7	189.1
115°	33.6	50.4	121.9	155.5	163.9
117.5°	33.6	42.0	105.1	130.3	138.7
120°	33.6	37.8	92.5	113.5	117.7
122.5°	33.6	33.6	79.9	100.9	105.1
125°	29.4	33.6	75.7	88.3	92.5
127.5°	33.6	33.6	67.3	79.9	84.1
130°	33.6	37.8	58.8	75.7	75.7
132.5°	37.8	42.0	54.6	71.5	71.5
135°	37.8	42.0	46.2	67.3	71.5
137.5°	42.0	42.0	42.0	63.0	67.3
140°	42.0	42.0	37.8	54.6	58.8
142.5°	37.8	42.0	37.8	50.4	54.6
145°	37.8	42.0	42.0	46.2	50.4
147.5°	42.0	42.0	42.0	42.0	46.2
150°	42.0	42.0	42.0	42.0	42.0
152.5°	42.0	42.0	42.0	42.0	42.0
155°	42.0	46.2	46.2	46.2	42.0
157.5°	42.0	46.2	46.2	46.2	46.2
160°	42.0	46.2	46.2	46.2	46.2
162.5°	46.2	46.2	46.2	46.2	46.2
165°	46.2	46.2	46.2	46.2	46.2
167.5°	46.2	50.4	46.2	46.2	46.2
170°	46.2	46.2	46.2	42.0	42.0
172.5°	46.2	46.2	46.2	42.0	42.0
175°	46.2	46.2	42.0	37.8	37.8
177.5°	50.4	46.2	42.0	37.8	33.6
180°	42.0	42.0	42.0	42.0	42.0



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	21.0	79.9	206.0	248.0	256.4
110°	25.2	67.3	172.3	210.2	218.6



(END OF REPORT)