

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: P830743

Luminaire Tested: **OHBL-72SE-A-UNV-L830-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830743
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-72SE-A-UNV-L830-CD
Description: 72000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 3000K LEDS AND AISLE LENS
Light Source: -
Ballast/Driver: -

Summary

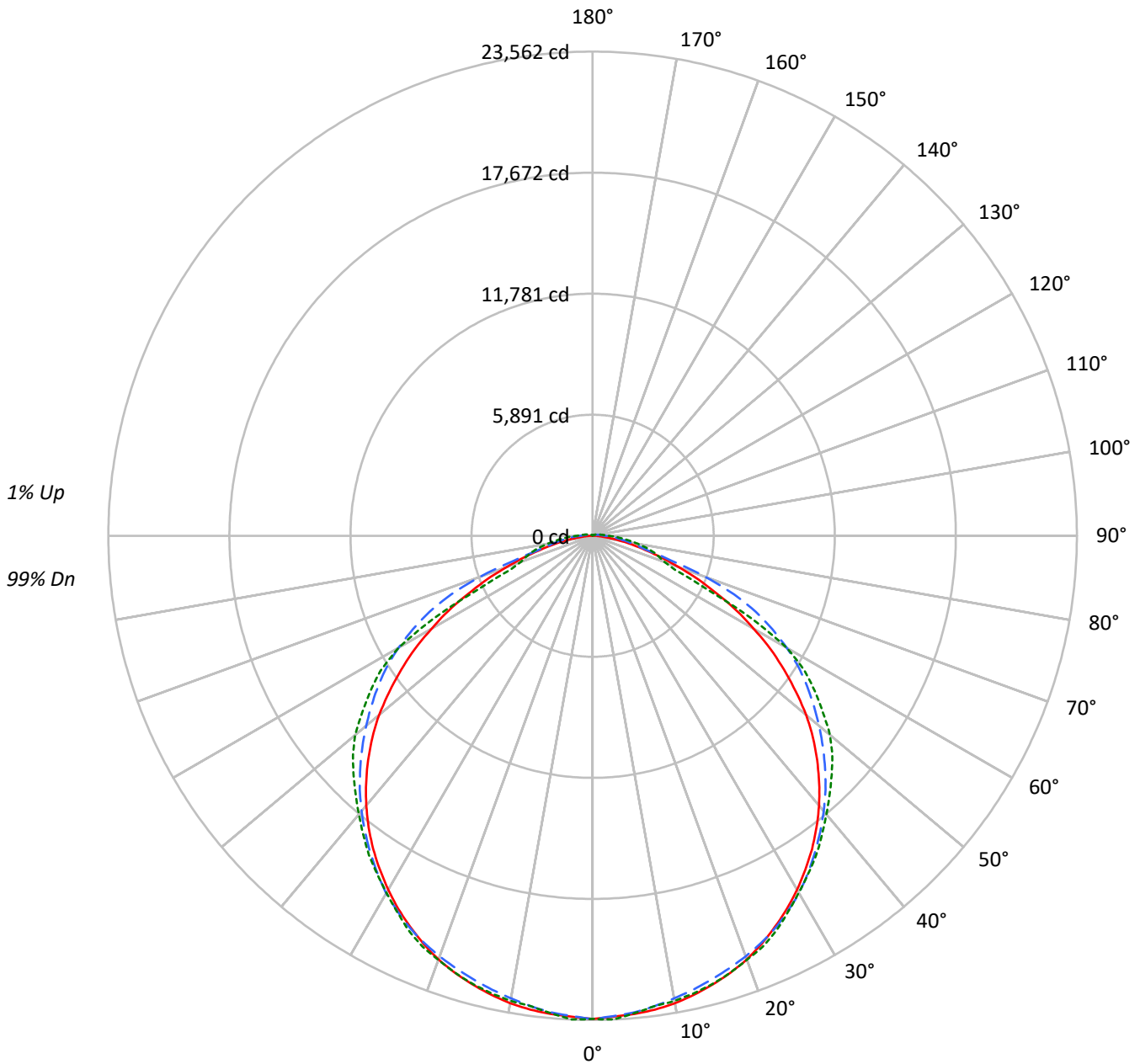
Lumens per Lamp: N/A
Luminaire Lumens: 66461.0 lumens
Efficiency: N/A
Efficacy: 160.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 413.7
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°	37187	37187	37187
5°	36943	36647	36724
10°	36808	36092	36316
15°	36575	35676	36073
20°	36341	35415	35753
25°	35903	35151	35437
30°	35426	34736	34766
35°	34855	34078	34397
40°	34114	33397	33893
45°	33087	32610	33670
50°	31694	31714	33404
55°	29482	30832	32157
60°	26586	29542	29729
65°	22806	27147	18841
70°	18369	21192	13660
75°	13772	12580	13864
80°	9587	10460	13237
85°	5456	9585	12407



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2217.2	3.3
10°-20°	6357.7	9.6
20°-30°	9710.3	14.6
30°-40°	11781.9	17.7
40°-50°	12348.5	18.6
50°-60°	11189.6	16.8
60°-70°	7502.2	11.3
70°-80°	3368.8	5.1
80°-90°	1222.5	1.8
90°-100°	368.0	0.6
100°-110°	173.6	0.3
110°-120°	87.0	0.1
120°-130°	48.0	0.1
130°-140°	33.0	0.0
140°-150°	22.2	0.0
150°-160°	16.5	0.0
160°-170°	10.6	0.0
170°-180°	3.4	0.0
0°-30°	18285.2	27.5
0°-40°	30067.0	45.2
0°-60°	53605.2	80.7
0°-90°	65698.7	98.9
90°-120°	628.6	0.9
90°-150°	731.8	1.1
90°-180°	762.0	1.1
0°-180°	66461.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	23514	23514	23514	23514	23514	
5°	23361	23443	23279	23351	23320	###
15°	22603	22514	22355	22552	22579	6382
25°	20998	20906	21052	21246	21185	9679
35°	18611	18655	18846	19046	18972	11633
45°	15446	15698	15990	16398	16449	11899
55°	11366	11913	12726	13236	13205	10146
65°	6671	7714	8758	7392	6035	6647
75°	2625	3808	2802	2866	3053	2868
85°	452	867	1112	1343	1408	552
90°	3	289	575	721	755	27
95°	3	180	394	479	493	5
105°	14	78	194	235	245	16
115°	27	41	99	126	133	25
125°	24	27	61	71	75	24
135°	31	34	37	54	58	24
145°	31	34	34	37	41	20
155°	34	37	37	37	34	16
165°	37	37	37	37	37	10
175°	37	37	34	31	31	4
180°	34	34	34	34	34	



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CATALOG NUMBER: OHBL-72SE-A-UNV-L830-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	23514.0	23514.0	23514.0	23514.0	23514.0
2.5°	23418.8	23517.4	23395.0	23527.6	23561.6
5°	23361.0	23442.6	23279.4	23350.8	23320.2
7.5°	23255.6	23282.8	23089.0	23146.8	23085.6
10°	23099.2	23085.6	22857.8	22970.0	22983.6
12.5°	22868.0	22827.2	22623.2	22793.2	22796.6
15°	22602.8	22514.4	22354.6	22551.8	22579.0
17.5°	22296.8	22181.2	22075.8	22330.8	22290.0
20°	21939.8	21803.8	21783.4	22062.2	21960.2
22.5°	21497.8	21392.4	21440.0	21705.2	21640.6
25°	20998.0	20906.2	21052.4	21246.2	21185.0
27.5°	20471.0	20416.6	20583.2	20732.8	20613.8
30°	19893.0	19862.4	20083.4	20205.8	20056.2
32.5°	19264.0	19274.2	19485.0	19651.6	19512.2
35°	18611.3	18655.4	18845.8	19046.4	18971.6
37.5°	17893.9	17992.5	18182.9	18410.7	18332.5
40°	17135.7	17278.5	17489.3	17764.7	17693.3
42.5°	16316.3	16496.5	16768.5	17074.5	17067.7
45°	15445.9	15697.5	15989.9	16397.9	16448.9
47.5°	14541.5	14823.7	15194.3	15738.3	15816.5
50°	13558.9	13912.5	14374.9	15027.7	15075.3
52.5°	12464.2	12947.0	13558.9	14184.5	14126.7
55°	11366.0	11913.4	12726.0	13236.0	13205.4
57.5°	10271.2	10886.6	11872.6	12236.4	12233.0
60°	9047.2	9825.8	10903.6	11179.0	10907.0
62.5°	7915.1	8751.4	9870.0	9669.4	8737.8
65°	6670.7	7714.5	8758.2	7391.5	6034.9
67.5°	5565.7	6653.7	7439.1	5062.5	4334.9
70°	4453.9	5654.1	5800.3	3756.9	3705.9
72.5°	3467.9	4746.3	4001.7	3216.3	3379.5
75°	2624.8	3807.9	2801.5	2866.1	3053.1
77.5°	1914.2	2923.9	2179.4	2512.6	2665.5
80°	1315.8	2070.6	1778.2	2111.4	2216.8
82.5°	826.2	1366.8	1424.6	1700.0	1808.8
85°	452.2	867.0	1111.8	1343.0	1407.6
87.5°	187.0	523.6	850.0	1037.0	1091.4
90°	3.4	289.0	574.6	720.8	754.8
92.5°	3.4	221.0	469.2	581.4	605.2
95°	3.4	180.2	394.4	479.4	493.0
97.5°	6.8	142.8	329.8	397.8	411.4
100°	10.2	119.0	275.4	333.2	343.4
102.5°	13.6	95.2	231.2	278.8	289.0
105°	13.6	78.2	193.8	234.6	244.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	23.8	47.6	115.6	146.2	153.0
115°	27.2	40.8	98.6	125.8	132.6
117.5°	27.2	34.0	85.0	105.4	112.2
120°	27.2	30.6	74.8	91.8	95.2
122.5°	27.2	27.2	64.6	81.6	85.0
125°	23.8	27.2	61.2	71.4	74.8
127.5°	27.2	27.2	54.4	64.6	68.0
130°	27.2	30.6	47.6	61.2	61.2
132.5°	30.6	34.0	44.2	57.8	57.8
135°	30.6	34.0	37.4	54.4	57.8
137.5°	34.0	34.0	34.0	51.0	54.4
140°	34.0	34.0	30.6	44.2	47.6
142.5°	30.6	34.0	30.6	40.8	44.2
145°	30.6	34.0	34.0	37.4	40.8
147.5°	34.0	34.0	34.0	34.0	37.4
150°	34.0	34.0	34.0	34.0	34.0
152.5°	34.0	34.0	34.0	34.0	34.0
155°	34.0	37.4	37.4	37.4	34.0
157.5°	34.0	37.4	37.4	37.4	37.4
160°	34.0	37.4	37.4	37.4	37.4
162.5°	37.4	37.4	37.4	37.4	37.4
165°	37.4	37.4	37.4	37.4	37.4
167.5°	37.4	40.8	37.4	37.4	37.4
170°	37.4	37.4	37.4	34.0	34.0
172.5°	37.4	37.4	37.4	34.0	34.0
175°	37.4	37.4	34.0	30.6	30.6
177.5°	40.8	37.4	34.0	30.6	27.2
180°	34.0	34.0	34.0	34.0	34.0



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	17.0	64.6	166.6	200.6	207.4
110°	20.4	54.4	139.4	170.0	176.8



(END OF REPORT)