

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: P830755

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830755
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-MCL-UNV-L830-CD
Description: 72000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 3000K LEDS AND MEDIUM CLEAR LENS
Light Source: -
Ballast/Driver: -

Summary

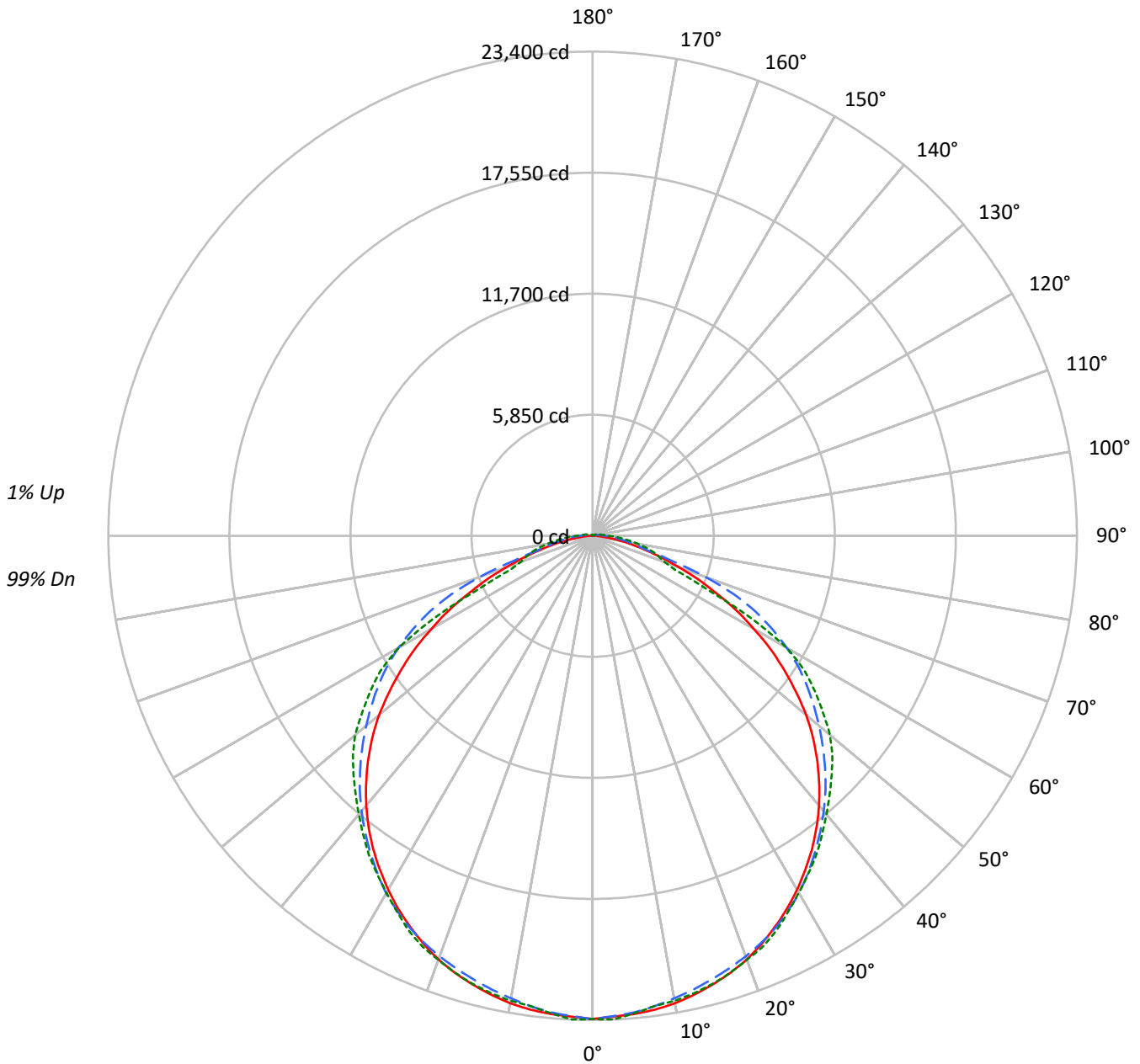
Lumens per Lamp: N/A
Luminaire Lumens: 66004.0 lumens
Efficiency: N/A
Efficacy: 159.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

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°	36931	36931	36931
5°	36689	36394	36471
10°	36555	35843	36066
15°	36323	35431	35825
20°	36091	35171	35507
25°	35656	34910	35193
30°	35182	34498	34527
35°	34616	33844	34160
40°	33879	33168	33660
45°	32859	32386	33439
50°	31476	31496	33174
55°	29279	30620	31936
60°	26403	29338	29525
65°	22649	26960	18712
70°	18243	21046	13566
75°	13677	12494	13768
80°	9520	10388	13146
85°	5419	9518	12322



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2201.9	3.3
10°-20°	6314.0	9.6
20°-30°	9643.5	14.6
30°-40°	11700.9	17.7
40°-50°	12263.6	18.6
50°-60°	11112.7	16.8
60°-70°	7450.6	11.3
70°-80°	3345.6	5.1
80°-90°	1214.1	1.8
90°-100°	365.5	0.6
100°-110°	172.4	0.3
110°-120°	86.4	0.1
120°-130°	47.7	0.1
130°-140°	32.8	0.0
140°-150°	22.1	0.0
150°-160°	16.4	0.0
160°-170°	10.5	0.0
170°-180°	3.3	0.0
0°-30°	18159.4	27.5
0°-40°	29860.3	45.2
0°-60°	53236.6	80.7
0°-90°	65246.9	98.9
90°-120°	624.3	0.9
90°-150°	726.8	1.1
90°-180°	757.0	1.1
0°-180°	66004.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	23352	23352	23352	23352	23352	
5°	23200	23281	23119	23190	23160	###
15°	22447	22360	22201	22397	22424	6338
25°	20854	20762	20908	21100	21039	9612
35°	18483	18527	18716	18916	18841	11553
45°	15340	15590	15880	16285	16336	11817
55°	11288	11832	12638	13145	13114	10076
65°	6625	7661	8698	7341	5993	6601
75°	2607	3782	2782	2846	3032	2849
85°	449	861	1104	1334	1398	548
90°	3	287	571	716	750	27
95°	3	179	392	476	490	5
105°	14	78	192	233	243	16
115°	27	40	98	125	132	25
125°	24	27	61	71	74	23
135°	30	34	37	54	57	24
145°	30	34	34	37	40	20
155°	34	37	37	37	34	16
165°	37	37	37	37	37	10
175°	37	37	34	30	30	4
180°	34	34	34	34	34	



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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	23352.3	23352.3	23352.3	23352.3	23352.3
2.5°	23257.7	23355.6	23234.1	23365.8	23399.5
5°	23200.3	23281.4	23119.3	23190.2	23159.8
7.5°	23095.7	23122.7	22930.2	22987.6	22926.8
10°	22940.3	22926.8	22700.6	22812.0	22825.5
12.5°	22710.7	22670.2	22467.6	22636.4	22639.8
15°	22447.4	22359.6	22200.9	22396.7	22423.7
17.5°	22143.5	22028.7	21924.0	22177.2	22136.7
20°	21788.9	21653.9	21633.6	21910.5	21809.2
22.5°	21350.0	21245.3	21292.6	21555.9	21491.8
25°	20853.6	20762.5	20907.6	21100.1	21039.3
27.5°	20330.3	20276.2	20441.7	20590.2	20472.1
30°	19756.2	19725.8	19945.3	20066.9	19918.3
32.5°	19131.6	19141.7	19351.1	19516.5	19378.1
35°	18483.3	18527.2	18716.3	18915.5	18841.2
37.5°	17770.8	17868.7	18057.8	18284.1	18206.4
40°	17017.8	17159.7	17369.0	17642.5	17571.6
42.5°	16204.1	16383.1	16653.2	16957.1	16950.3
45°	15339.7	15589.6	15879.9	16285.1	16335.8
47.5°	14441.5	14721.8	15089.8	15630.1	15707.7
50°	13465.7	13816.9	14276.1	14924.4	14971.7
52.5°	12378.5	12857.9	13465.7	14087.0	14029.6
55°	11287.8	11831.5	12638.5	13144.9	13114.5
57.5°	10200.6	10811.7	11790.9	12152.2	12148.9
60°	8985.0	9758.3	10828.6	11102.1	10832.0
62.5°	7860.6	8691.3	9802.1	9602.9	8677.8
65°	6624.8	7661.4	8698.0	7340.6	5993.4
67.5°	5527.4	6607.9	7387.9	5027.7	4305.1
70°	4423.3	5615.2	5760.4	3731.1	3680.4
72.5°	3444.1	4713.7	3974.2	3194.2	3356.3
75°	2606.7	3781.7	2782.3	2846.4	3032.1
77.5°	1901.0	2903.8	2164.4	2495.3	2647.2
80°	1306.7	2056.3	1765.9	2096.8	2201.5
82.5°	820.5	1357.4	1414.8	1688.3	1796.3
85°	449.1	861.0	1104.1	1333.7	1397.9
87.5°	185.7	520.0	844.1	1029.9	1083.9
90°	3.4	287.0	570.6	715.8	749.6
92.5°	3.4	219.5	466.0	577.4	601.0
95°	3.4	179.0	391.7	476.1	489.6
97.5°	6.8	141.8	327.5	395.1	408.6
100°	10.1	118.2	273.5	330.9	341.0
102.5°	13.5	94.5	229.6	276.9	287.0
105°	13.5	77.7	192.5	233.0	243.1



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

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	23.6	47.3	114.8	145.2	151.9
115°	27.0	40.5	97.9	124.9	131.7
117.5°	27.0	33.8	84.4	104.7	111.4
120°	27.0	30.4	74.3	91.2	94.5
122.5°	27.0	27.0	64.2	81.0	84.4
125°	23.6	27.0	60.8	70.9	74.3
127.5°	27.0	27.0	54.0	64.2	67.5
130°	27.0	30.4	47.3	60.8	60.8
132.5°	30.4	33.8	43.9	57.4	57.4
135°	30.4	33.8	37.1	54.0	57.4
137.5°	33.8	33.8	33.8	50.6	54.0
140°	33.8	33.8	30.4	43.9	47.3
142.5°	30.4	33.8	30.4	40.5	43.9
145°	30.4	33.8	33.8	37.1	40.5
147.5°	33.8	33.8	33.8	33.8	37.1
150°	33.8	33.8	33.8	33.8	33.8
152.5°	33.8	33.8	33.8	33.8	33.8
155°	33.8	37.1	37.1	37.1	33.8
157.5°	33.8	37.1	37.1	37.1	37.1
160°	33.8	37.1	37.1	37.1	37.1
162.5°	37.1	37.1	37.1	37.1	37.1
165°	37.1	37.1	37.1	37.1	37.1
167.5°	37.1	40.5	37.1	37.1	37.1
170°	37.1	37.1	37.1	33.8	33.8
172.5°	37.1	37.1	37.1	33.8	33.8
175°	37.1	37.1	33.8	30.4	30.4
177.5°	40.5	37.1	33.8	30.4	27.0
180°	33.8	33.8	33.8	33.8	33.8



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	16.9	64.2	165.5	199.2	206.0
110°	20.3	54.0	138.4	168.8	175.6



(END OF REPORT)