

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: P830803

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830803
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-72SE-W-UNV-L830-CD
Description: 72000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 3000K LEDS AND WIDE LENS
Light Source: -
Ballast/Driver: -

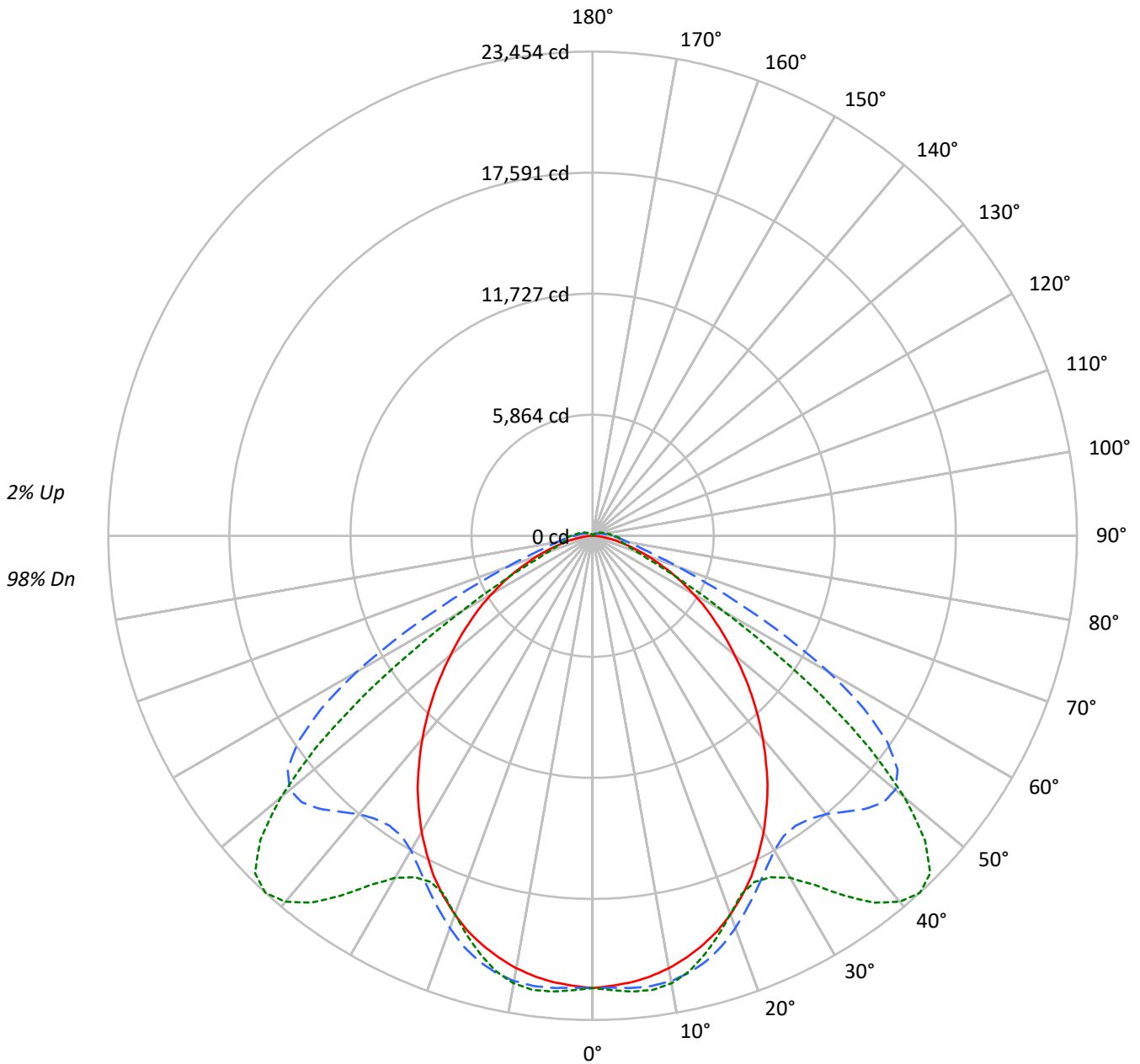
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 65599.0 lumens
Efficiency: N/A
Efficacy: 158.6 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62
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	105	105	105	100	100	100	98																			
1	109	104	100	96	106	102	98	95	97	94	91	93	90	88	89	87	85	83																			
2	99	91	85	79	96	89	83	78	85	80	76	82	77	74	78	75	72	70																			
3	90	80	72	66	88	78	71	65	75	69	64	72	67	62	69	65	61	59																			
4	83	71	62	56	80	69	61	55	67	60	54	64	58	53	62	57	52	50																			
5	76	63	54	48	74	62	54	47	60	52	47	57	51	46	55	50	45	43																			
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	50	44	40	38																			
7	65	51	43	36	63	50	42	36	49	41	36	47	40	35	45	40	35	33																			
8	60	47	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29																			
9	56	43	34	29	55	42	34	29	41	34	28	39	33	28	38	32	28	26																			
10	52	39	31	26	51	39	31	26	38	31	26	36	30	26	35	30	25	24																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	34648	34648	34648
5°	34326	34615	34896
10°	33895	34578	34789
15°	33234	34022	33529
20°	32328	32868	31745
25°	31116	31467	30963
30°	29503	30429	33152
35°	27664	31009	38582
40°	25530	33605	44332
45°	23298	38145	47324
50°	20971	42214	43685
55°	18784	42201	33058
60°	16557	35743	19970
65°	14205	24717	11909
70°	11541	16009	8416
75°	8780	11504	7555
80°	6302	10149	8072
85°	4277	11247	11374



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2093.6	3.2
10°-20°	5928.6	9.0
20°-30°	8675.4	13.2
30°-40°	11266.9	17.2
40°-50°	13758.3	21.0
50°-60°	12116.3	18.5
60°-70°	6313.9	9.6
70°-80°	2707.6	4.1
80°-90°	1300.3	2.0
90°-100°	610.9	0.9
100°-110°	379.7	0.6
110°-120°	224.5	0.3
120°-130°	122.0	0.2
130°-140°	61.2	0.1
140°-150°	29.5	0.0
150°-160°	10.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	16697.6	25.5
0°-40°	27964.5	42.6
0°-60°	53839.1	82.1
0°-90°	64160.9	97.8
90°-120°	1215.1	1.9
90°-150°	1427.9	2.2
90°-180°	1438.0	2.2
0°-180°	65599.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	21909	21909	21909	21909	21909	
5°	21706	21871	21989	22183	22159	###
15°	20538	21115	21318	21157	20987	5783
25°	18198	19172	18846	18491	18510	8351
35°	14771	16331	17149	19999	21280	9207
45°	10876	13684	18704	22646	23119	8386
55°	7242	11987	17418	15272	13576	6499
65°	4155	8305	7974	4434	3815	4111
75°	1673	3886	2562	1754	1664	1825
85°	354	1385	1305	1276	1290	395
90°	5	501	860	983	1007	25
95°	10	293	685	804	827	7
105°	19	165	444	534	544	20
115°	28	94	274	336	345	29
125°	33	47	161	208	213	28
135°	28	28	76	128	132	22
145°	38	28	33	61	71	22
155°	38	38	28	28	28	12
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	21908.9	21908.9	21908.9	21908.9	21908.9
2.5°	21814.3	21908.9	21913.6	22045.9	22031.8
5°	21705.6	21871.1	21989.2	22183.0	22159.4
7.5°	21526.0	21786.0	21994.0	22206.7	22187.8
10°	21270.7	21625.3	21899.4	22074.3	22017.6
12.5°	20939.9	21407.8	21677.3	21715.1	21606.4
15°	20538.1	21114.8	21318.0	21157.3	20987.1
17.5°	20084.3	20760.2	20831.2	20481.4	20268.7
20°	19517.1	20287.6	20216.7	19734.5	19498.2
22.5°	18888.4	19767.6	19540.7	19035.0	18808.1
25°	18198.3	19172.0	18845.9	18491.4	18510.3
27.5°	17390.0	18496.1	18179.4	18340.1	18642.6
30°	16567.5	17787.1	17593.3	18529.2	19124.8
32.5°	15664.7	17059.1	17234.0	19082.2	20055.9
35°	14771.4	16331.2	17148.9	19999.2	21280.2
37.5°	13783.4	15593.8	17286.0	21058.0	22400.5
40°	12823.9	14875.3	17598.0	22008.1	23142.6
42.5°	11845.4	14232.5	18122.7	22570.6	23454.5
45°	10876.4	13684.2	18704.1	22646.3	23118.9
47.5°	9907.4	13221.0	19105.9	22045.9	21828.5
50°	8971.5	12809.7	19134.2	20604.3	19715.6
52.5°	8097.1	12431.6	18614.3	18307.0	16926.8
55°	7241.5	11987.2	17418.4	15272.4	13575.5
57.5°	6461.6	11372.8	15574.9	12010.9	10158.0
60°	5634.4	10540.8	13192.6	8787.2	7326.6
62.5°	4873.4	9505.7	10521.9	6116.5	5265.7
65°	4154.9	8305.0	7974.2	4433.8	3814.6
67.5°	3393.9	7061.9	5884.9	3233.2	2836.1
70°	2798.3	5908.5	4381.8	2514.7	2283.1
72.5°	2188.5	4811.9	3275.7	2042.0	1914.4
75°	1673.3	3885.5	2561.9	1753.7	1663.8
77.5°	1233.7	3072.4	2060.9	1550.4	1465.3
80°	865.0	2420.1	1725.3	1385.0	1351.9
82.5°	581.4	1871.8	1470.0	1318.8	1323.5
85°	354.5	1385.0	1304.6	1276.2	1290.4
87.5°	170.2	983.2	1120.3	1162.8	1177.0
90°	4.7	501.0	860.3	983.2	1006.8
92.5°	0.0	382.9	756.3	879.2	902.8
95°	9.5	293.1	685.4	803.6	827.2
97.5°	9.5	241.1	614.5	737.4	751.6
100°	14.2	208.0	548.3	666.5	680.7
102.5°	14.2	184.3	491.6	595.6	605.0
105°	18.9	165.4	444.3	534.1	543.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	28.4	113.4	312.0	378.1	387.6
115°	28.4	94.5	274.2	335.6	345.1
117.5°	33.1	85.1	241.1	297.8	302.5
120°	33.1	70.9	208.0	264.7	269.4
122.5°	33.1	56.7	184.3	236.3	241.1
125°	33.1	47.3	160.7	208.0	212.7
127.5°	28.4	33.1	137.1	184.3	189.1
130°	28.4	28.4	113.4	160.7	170.2
132.5°	28.4	28.4	94.5	141.8	151.3
135°	28.4	28.4	75.6	127.6	132.4
137.5°	28.4	28.4	61.4	108.7	118.2
140°	28.4	28.4	47.3	94.5	99.3
142.5°	33.1	28.4	42.5	80.4	85.1
145°	37.8	28.4	33.1	61.4	70.9
147.5°	37.8	33.1	33.1	52.0	56.7
150°	37.8	37.8	28.4	37.8	47.3
152.5°	37.8	37.8	28.4	28.4	37.8
155°	37.8	37.8	28.4	28.4	28.4
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	23.6	146.5	397.1	477.4	486.9
110°	23.6	127.6	349.8	425.4	434.9



(END OF REPORT)