

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: P829687

Luminaire Tested: **OHBL-100SE-MFL-UNV-L830-CD**

Issue Date: 5/3/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P829687  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-100SE-MFL-UNV-L830-CD  
Description: 100000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 3000K LEDS AND MEDIUM FROSTED LENS  
Light Source: -  
Ballast/Driver: -

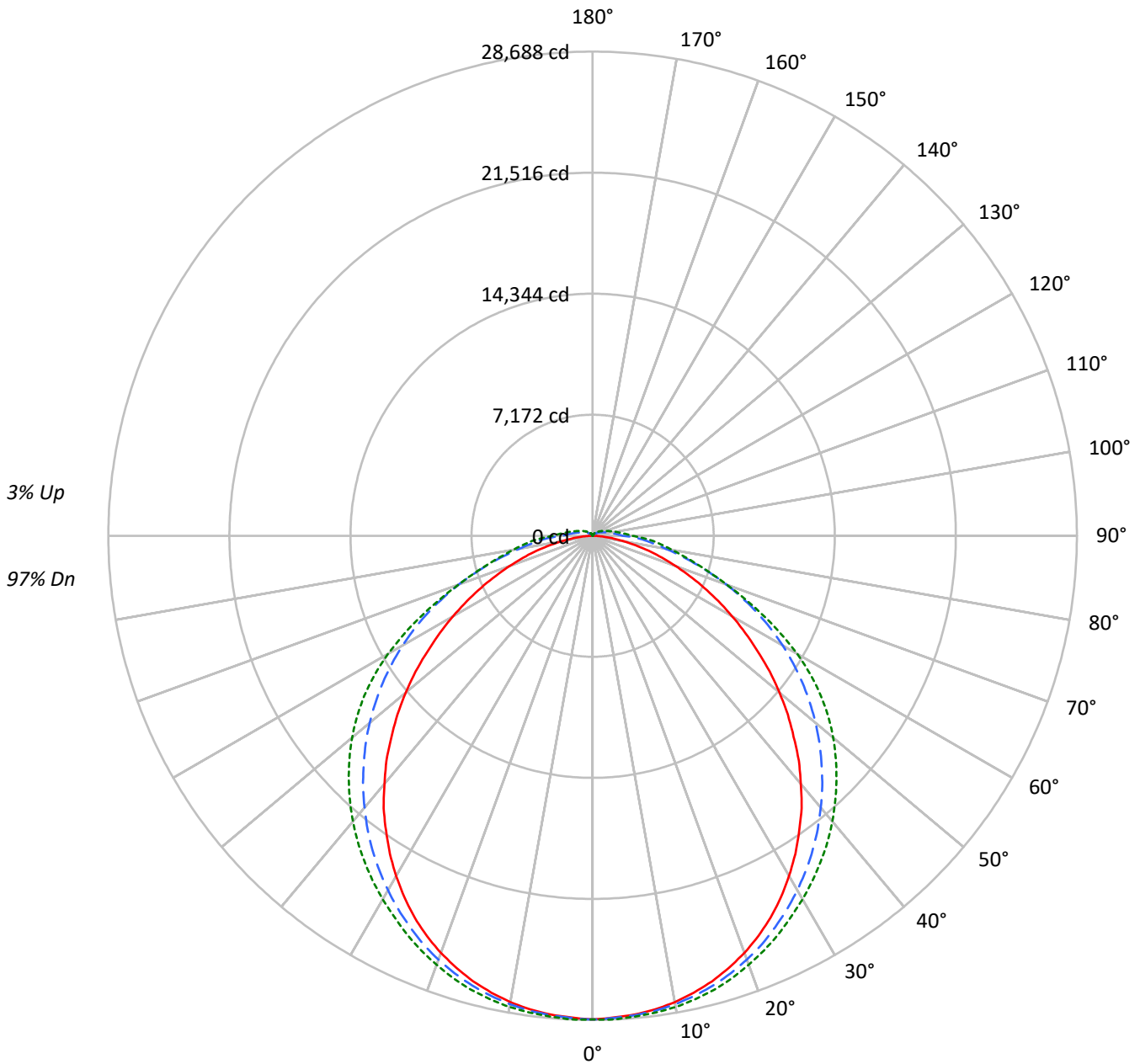
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 85773.0 lumens  
Efficiency: N/A  
Efficacy: 145.4 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 590.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	97																	
1	107	102	98	94	104	100	96	92	95	91	88	90	88	85	86	84	82	82	82	80																	
2	98	89	82	76	95	87	80	75	83	77	73	79	74	71	75	72	68	68	68	66																	
3	89	78	70	63	86	76	69	62	73	66	61	70	64	59	67	62	58	58	58	56																	
4	81	69	60	53	79	68	59	53	65	57	52	62	56	51	59	54	50	50	50	47																	
5	75	62	53	46	72	60	52	46	58	50	45	56	49	44	53	48	43	43	43	41																	
6	69	56	47	40	67	54	46	40	52	45	39	50	44	39	48	43	38	38	38	36																	
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	44	38	34	34	34	32																	
8	60	46	37	31	58	45	37	31	43	36	31	42	35	31	41	35	30	30	30	28																	
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	37	32	27	27	27	25																	
10	52	39	31	26	51	38	31	26	37	30	25	36	29	25	35	29	25	25	25	23																	

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	45324	45324	45324
5°	45034	44895	45032
10°	44718	44499	44796
15°	44219	44026	44487
20°	43556	43447	44034
25°	42670	42723	43575
30°	41444	41939	43114
35°	39960	41106	42716
40°	38177	40142	42324
45°	36075	39095	41824
50°	33775	38036	41216
55°	30948	36740	40190
60°	28052	35214	38141
65°	24891	33263	34774
70°	21465	30778	31128
75°	17997	27906	28665
80°	13645	25829	28438
85°	8632	26847	31779



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2715.6	3.2
10°-20°	7790.8	9.1
20°-30°	11782.2	13.7
30°-40°	14144.6	16.5
40°-50°	14609.1	17.0
50°-60°	13143.6	15.3
60°-70°	9900.9	11.5
70°-80°	5978.5	7.0
80°-90°	2924.0	3.4
90°-100°	1230.8	1.4
100°-110°	702.6	0.8
110°-120°	412.4	0.5
120°-130°	233.2	0.3
130°-140°	122.8	0.1
140°-150°	59.7	0.1
150°-160°	22.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	22288.6	26.0
0°-40°	36433.2	42.5
0°-60°	64186.0	74.8
0°-90°	82989.3	96.8
90°-120°	2345.7	2.7
90°-150°	2761.5	3.2
90°-180°	2784.0	3.2
0°-180°	85773.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	28660	28660	28660	28660	28660	
5°	28477	28554	28519	28631	28596	###
15°	27327	27460	27586	27818	27846	7704
25°	24956	25230	25587	25987	26050	11479
35°	21337	21835	22733	23420	23560	13339
45°	16841	17690	19170	20214	20432	13001
55°	11931	13165	15164	16308	16504	10697
65°	7281	8768	10732	11265	11138	7233
75°	3430	4924	6214	6376	6313	3659
85°	715	1887	3114	3542	3605	827
90°	0	736	1782	2244	2336	45
95°	35	498	1333	1697	1760	30
105°	49	288	772	1010	1052	49
115°	56	161	477	638	666	57
125°	56	77	288	414	435	50
135°	49	63	147	252	281	39
145°	70	63	70	126	147	42
155°	70	77	70	63	70	22
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	28659.5	28659.5	28659.5	28659.5	28659.5
2.5°	28575.3	28645.5	28603.4	28694.6	28687.5
5°	28477.1	28554.3	28519.2	28631.4	28596.4
7.5°	28308.8	28393.0	28385.9	28512.2	28498.2
10°	28063.3	28154.5	28182.5	28350.9	28350.9
12.5°	27726.6	27845.9	27916.0	28119.4	28126.4
15°	27326.8	27460.1	27586.3	27817.8	27845.9
17.5°	26842.8	27011.2	27186.5	27453.1	27488.1
20°	26295.7	26485.1	26723.6	27004.2	27046.3
22.5°	25664.5	25888.9	26197.6	26527.2	26576.3
25°	24956.1	25229.6	25587.3	25987.1	26050.3
27.5°	24149.4	24465.1	24949.0	25397.9	25454.1
30°	23272.7	23644.4	24247.6	24780.7	24871.9
32.5°	22346.8	22774.7	23518.2	24114.4	24240.6
35°	21336.8	21834.8	22732.6	23420.0	23560.3
37.5°	20340.8	20887.9	21904.9	22690.5	22858.9
40°	19176.5	19856.8	21021.2	21890.9	22094.3
42.5°	18082.3	18818.7	20137.4	21084.3	21280.7
45°	16840.8	17689.5	19169.5	20214.5	20432.0
47.5°	15676.4	16595.3	18236.6	19316.7	19541.2
50°	14449.0	15459.0	17240.6	18369.8	18601.3
52.5°	13221.5	14308.7	16209.5	17380.9	17598.3
55°	11930.9	13165.4	15164.4	16307.7	16504.1
57.5°	10731.5	12036.1	14091.3	15178.4	15297.7
60°	9546.1	10899.9	12997.1	13951.0	13993.1
62.5°	8388.8	9812.7	11874.8	12632.3	12576.2
65°	7280.6	8767.6	10731.5	11264.6	11138.3
67.5°	6214.5	7750.5	9560.2	9903.9	9735.5
70°	5204.4	6761.6	8423.9	8599.2	8444.9
72.5°	4313.7	5821.7	7273.6	7420.9	7308.7
75°	3429.9	4923.9	6214.5	6375.8	6312.7
77.5°	2602.2	4054.1	5239.5	5449.9	5464.0
80°	1872.8	3261.5	4390.8	4720.5	4762.6
82.5°	1234.5	2532.1	3682.4	4103.2	4166.4
85°	715.4	1886.8	3114.2	3542.1	3605.2
87.5°	308.6	1360.7	2504.0	2889.8	2967.0
90°	0.0	736.5	1781.6	2244.5	2335.7
92.5°	21.0	610.2	1529.1	1949.9	2027.1
95°	35.1	498.0	1332.7	1697.4	1760.5
97.5°	42.1	420.8	1157.3	1480.0	1543.1
100°	42.1	364.7	1003.0	1297.6	1353.7
102.5°	42.1	322.6	876.8	1136.3	1185.4
105°	49.1	287.6	771.5	1010.0	1052.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	56.1	189.4	533.1	715.4	743.5
115°	56.1	161.3	477.0	638.3	666.3
117.5°	63.1	140.3	420.8	575.2	596.2
120°	63.1	119.2	371.7	512.0	540.1
122.5°	63.1	98.2	329.7	462.9	484.0
125°	56.1	77.2	287.6	413.8	434.9
127.5°	49.1	63.1	245.5	371.7	392.8
130°	49.1	56.1	210.4	329.7	350.7
132.5°	49.1	63.1	175.4	287.6	315.6
135°	49.1	63.1	147.3	252.5	280.6
137.5°	49.1	63.1	119.2	217.4	245.5
140°	56.1	63.1	98.2	182.4	210.4
142.5°	63.1	63.1	77.2	154.3	175.4
145°	70.1	63.1	70.1	126.3	147.3
147.5°	70.1	70.1	70.1	98.2	119.2
150°	70.1	77.2	70.1	77.2	98.2
152.5°	70.1	77.2	70.1	63.1	77.2
155°	70.1	77.2	70.1	63.1	70.1
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°	49.1	252.5	680.4	897.8	932.9
110°	49.1	224.5	603.2	799.6	834.7



(END OF REPORT)