

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: P830131

Luminaire Tested: **OHBL-24SE-N-UNV-L830-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P830131  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-24SE-N-UNV-L830-CD  
Description: 24000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 3000K LEDS AND NARROW LENS  
Light Source: -  
Ballast/Driver: -

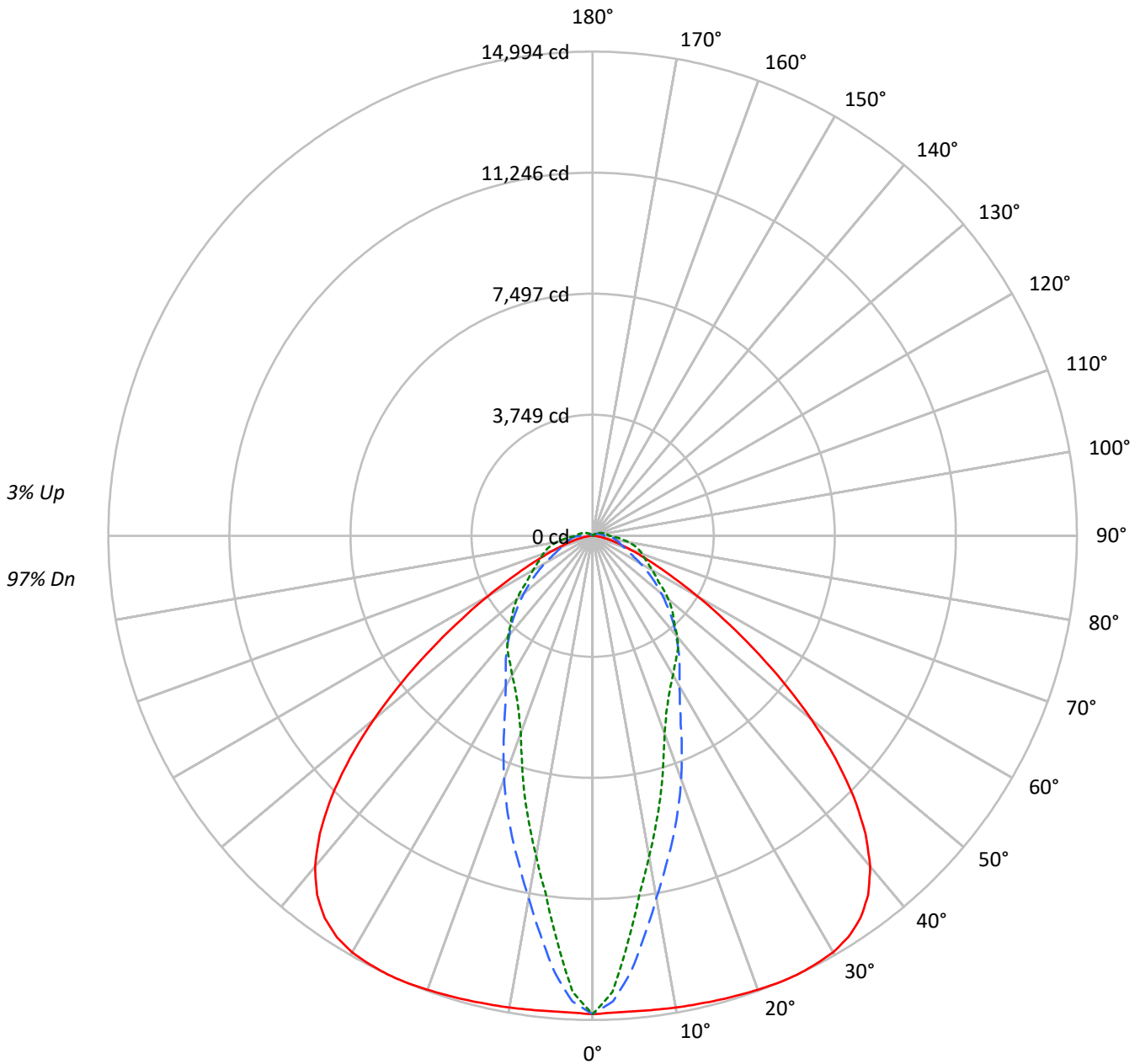
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21861.0 lumens  
Efficiency: N/A  
Efficacy: 158.4 lumens/watt  
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78  
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 138  
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	109	104	100	97	106	102	98	95	97	94	91	92	90	88	88	86	85	85	85	82																	
2	100	93	86	81	97	90	85	80	86	82	78	83	79	75	79	76	73	73	73	71																	
3	92	83	75	69	90	81	74	69	78	72	67	74	70	65	72	67	64	64	64	62																	
4	85	74	66	60	83	73	66	60	70	64	59	67	62	57	65	60	56	56	56	54																	
5	79	67	59	53	77	66	59	53	64	57	52	62	56	51	59	54	50	50	50	48																	
6	74	62	53	47	72	60	53	47	58	52	46	56	50	46	55	49	45	45	45	43																	
7	69	56	48	43	67	55	48	42	54	47	42	52	46	41	50	45	41	41	41	39																	
8	65	52	44	39	63	51	44	39	50	43	38	48	42	38	47	41	37	37	37	35																	
9	61	48	41	35	59	47	40	35	46	40	35	45	39	35	44	38	34	34	34	32																	
10	57	45	37	33	56	44	37	32	43	37	32	42	36	32	41	35	32	32	32	30																	

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

	0°	45°	90°
0°	25299	25299	25299
5°	25247	23039	21421
10°	25532	19406	17176
15°	26031	16597	14098
20°	26762	14033	11402
25°	27687	11616	9991
30°	28645	10007	9281
35°	29241	9120	8843
40°	28740	8238	8389
45°	26440	7444	7767
50°	22307	6577	7290
55°	16950	5761	6487
60°	11878	4940	6210
65°	7990	4255	6080
70°	5457	3993	6378
75°	3787	4118	6815
80°	2607	4560	7016
85°	1525	5704	7361



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1246.9	5.7
10°-20°	2933.2	13.4
20°-30°	3676.7	16.8
30°-40°	3901.4	17.8
40°-50°	3527.5	16.1
50°-60°	2557.7	11.7
60°-70°	1605.0	7.3
70°-80°	1062.2	4.9
80°-90°	611.9	2.8
90°-100°	296.5	1.4
100°-110°	204.6	0.9
110°-120°	126.3	0.6
120°-130°	61.2	0.3
130°-140°	28.1	0.1
140°-150°	15.4	0.1
150°-160°	6.7	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
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0°-30°	7856.7	35.9
0°-40°	11758.1	53.8
0°-60°	17843.2	81.6
0°-90°	21122.3	96.6
90°-120°	627.3	2.9
90°-150°	732.0	3.3
90°-180°	739.0	3.4
0°-180°	21861.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	14812	14812	14812	14812	14812	
5°	14782	14403	13557	12929	12603	###
15°	14895	12141	9642	8575	8186	4224
25°	14994	9387	6456	5730	5549	6927
35°	14457	6241	4686	4539	4538	8987
45°	11429	3953	3396	3478	3537	8706
55°	6050	2450	2216	2404	2490	5467
65°	2164	1421	1283	1644	1827	2252
75°	668	766	861	1338	1418	745
85°	117	317	630	877	805	140
90°	0	132	365	515	519	8
95°	6	93	321	437	457	5
105°	11	62	234	310	319	11
115°	16	44	158	197	202	15
125°	17	23	80	102	100	15
135°	14	17	35	55	55	11
145°	17	18	21	32	31	10
155°	17	21	23	24	21	5
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°	14812.0	14812.0	14812.0	14812.0	14812.0
2.5°	14781.0	14696.4	14432.8	14272.1	14136.7
5°	14782.4	14403.2	13557.3	12928.6	12603.0
7.5°	14803.5	13960.5	12436.6	11518.9	11160.8
10°	14836.0	13412.1	11390.6	10412.2	10078.1
12.5°	14859.9	12794.7	10470.0	9464.9	9098.4
15°	14895.2	12140.6	9642.5	8575.4	8186.3
17.5°	14927.6	11524.5	8824.9	7709.8	7277.0
20°	14960.0	10860.5	8007.2	6858.3	6501.7
22.5°	14991.0	10159.9	7209.3	6197.2	5953.3
25°	14993.8	9387.4	6456.5	5730.5	5548.7
27.5°	14957.2	8586.6	5846.1	5340.0	5227.3
30°	14893.8	7809.9	5372.5	5058.1	4977.7
32.5°	14735.9	7017.6	5005.9	4786.0	4739.5
35°	14456.7	6240.9	4685.9	4539.3	4537.9
37.5°	14016.9	5551.5	4339.1	4313.8	4344.8
40°	13367.0	4948.1	4010.7	4078.3	4078.3
42.5°	12500.0	4423.7	3713.2	3782.3	3764.0
45°	11428.7	3952.9	3396.0	3477.8	3537.0
47.5°	10186.7	3538.4	3071.8	3229.7	3311.4
50°	8836.2	3143.7	2775.8	2977.3	3070.4
52.5°	7420.8	2778.6	2486.8	2718.0	2792.7
55°	6050.5	2450.1	2216.1	2403.6	2489.6
57.5°	4810.0	2137.1	1951.1	2128.7	2306.3
60°	3742.8	1867.9	1701.5	1955.3	2132.9
62.5°	2858.9	1628.2	1467.5	1793.2	1970.8
65°	2163.9	1421.0	1282.9	1643.7	1827.0
67.5°	1631.1	1242.0	1139.1	1535.2	1714.2
70°	1225.1	1068.6	1023.5	1467.5	1628.2
72.5°	905.0	909.3	931.8	1408.3	1531.0
75°	668.2	765.5	861.3	1337.8	1418.2
77.5°	477.9	634.4	797.9	1253.2	1281.4
80°	331.3	517.4	731.6	1141.9	1117.9
82.5°	207.2	414.5	672.4	1019.2	953.0
85°	117.0	317.2	630.1	876.8	805.0
87.5°	52.2	236.8	551.2	683.7	638.6
90°	0.0	132.5	365.1	514.6	518.8
92.5°	2.8	110.0	336.9	470.8	484.9
95°	5.6	93.0	321.4	437.0	456.8
97.5°	7.0	81.8	301.7	406.0	422.9
100°	8.5	73.3	277.7	373.6	387.7
102.5°	9.9	67.7	255.2	339.7	351.0
105°	11.3	62.0	234.0	310.1	318.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	14.1	47.9	176.2	222.7	229.8
115°	15.5	43.7	157.9	197.4	201.6
117.5°	16.9	38.1	138.2	173.4	174.8
120°	16.9	33.8	118.4	148.0	148.0
122.5°	16.9	28.2	98.7	122.6	121.2
125°	16.9	22.6	80.4	101.5	100.1
127.5°	15.5	18.3	64.8	84.6	83.2
130°	15.5	18.3	52.2	71.9	71.9
132.5°	14.1	16.9	42.3	62.0	62.0
135°	14.1	16.9	35.2	55.0	55.0
137.5°	14.1	18.3	29.6	47.9	47.9
140°	14.1	16.9	25.4	42.3	42.3
142.5°	15.5	16.9	22.6	36.7	36.7
145°	16.9	18.3	21.1	32.4	31.0
147.5°	16.9	19.7	21.1	28.2	26.8
150°	16.9	21.1	21.1	25.4	24.0
152.5°	16.9	21.1	21.1	24.0	22.6
155°	16.9	21.1	22.6	24.0	21.1
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°	11.3	57.8	214.3	277.7	287.6
110°	12.7	52.2	196.0	248.1	258.0



(END OF REPORT)