

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: P830707

Luminaire Tested: **OHBL-60SE-N-UNV-L830-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P830707  
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-60SE-N-UNV-L830-CD  
Description: 60000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 3000K LEDS AND NARROW LENS  
Light Source: -  
Ballast/Driver: -

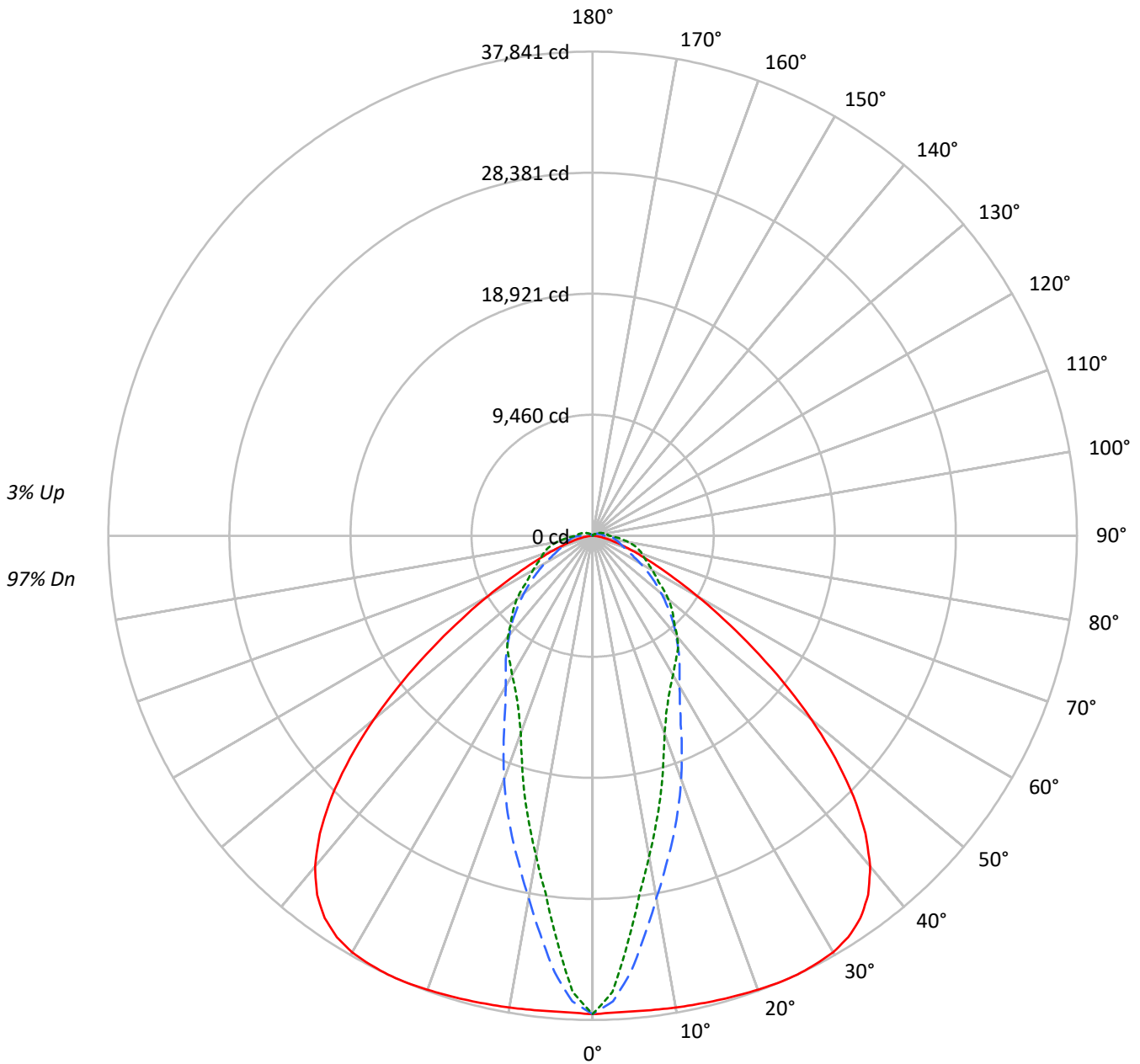
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 55172.0 lumens  
Efficiency: N/A  
Efficacy: 152.4 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): 362  
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°	63848	63848	63848
5°	63718	58145	54060
10°	64437	48977	43348
15°	65695	41887	35579
20°	67541	35417	28777
25°	69877	29316	25215
30°	72292	25255	23424
35°	73797	23016	22317
40°	72534	20791	21172
45°	66728	18788	19601
50°	56298	16599	18397
55°	42778	14539	16371
60°	29978	12469	15673
65°	20165	10738	15344
70°	13771	10078	16098
75°	9556	10393	17200
80°	6579	11510	17706
85°	3848	14397	18575



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	3146.8	5.7
10°-20°	7402.6	13.4
20°-30°	9279.1	16.8
30°-40°	9846.2	17.8
40°-50°	8902.5	16.1
50°-60°	6454.9	11.7
60°-70°	4050.8	7.3
70°-80°	2680.7	4.9
80°-90°	1544.3	2.8
90°-100°	748.2	1.4
100°-110°	516.4	0.9
110°-120°	318.7	0.6
120°-130°	154.3	0.3
130°-140°	71.0	0.1
140°-150°	38.8	0.1
150°-160°	16.9	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	19828.5	35.9
0°-40°	29674.6	53.8
0°-60°	45032.0	81.6
0°-90°	53307.8	96.6
90°-120°	1583.3	2.9
90°-150°	1847.4	3.3
90°-180°	1864.0	3.4
0°-180°	55172.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	37382	37382	37382	37382	37382	
5°	37307	36350	34216	32629	31807	###
15°	37592	30640	24336	21642	20660	10661
25°	37841	23692	16295	14462	14004	17482
35°	36485	15750	11826	11456	11453	22681
45°	28843	9976	8571	8777	8927	21973
55°	15270	6184	5593	6066	6283	13797
65°	5461	3586	3238	4148	4611	5683
75°	1686	1932	2174	3376	3579	1880
85°	295	800	1590	2213	2032	354
90°	0	334	922	1299	1309	19
95°	14	235	811	1103	1153	13
105°	28	156	591	783	804	29
115°	39	110	398	498	509	38
125°	43	57	203	256	253	37
135°	36	43	89	139	139	28
145°	43	46	53	82	78	26
155°	43	53	57	60	53	13
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-60SE-N-UNV-L830-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	37382.0	37382.0	37382.0	37382.0	37382.0
2.5°	37303.7	37090.2	36424.9	36019.3	35677.8
5°	37307.3	36350.2	34215.5	32628.7	31806.9
7.5°	37360.6	35233.1	31387.1	29070.9	28167.2
10°	37442.5	33849.1	28747.2	26278.0	25434.8
12.5°	37502.9	32290.7	26423.9	23887.2	22962.1
15°	37591.9	30639.9	24335.5	21642.2	20660.2
17.5°	37673.7	29085.1	22271.9	19457.7	18365.4
20°	37755.5	27409.4	20208.4	17308.8	16408.6
22.5°	37833.8	25641.2	18194.7	15640.2	15024.7
25°	37840.9	23691.5	16294.8	14462.5	14003.6
27.5°	37748.4	21670.7	14754.3	13477.0	13192.4
30°	37588.3	19710.3	13558.8	12765.4	12562.6
32.5°	37189.9	17710.8	12633.8	12078.8	11961.4
35°	36485.4	15750.5	11826.2	11456.2	11452.6
37.5°	35375.4	14010.7	10951.0	10886.9	10965.2
40°	33735.2	12487.9	10122.0	10292.8	10292.8
42.5°	31547.2	11164.4	9371.3	9545.6	9499.4
45°	28843.2	9976.1	8570.8	8777.1	8926.6
47.5°	25708.8	8930.1	7752.5	8151.0	8357.3
50°	22300.4	7933.9	7005.3	7514.1	7748.9
52.5°	18728.3	7012.5	6276.0	6859.5	7048.0
55°	15270.1	6183.5	5592.9	6066.1	6283.1
57.5°	12139.3	5393.6	4924.0	5372.3	5820.6
60°	9446.0	4714.1	4294.3	4934.7	5383.0
62.5°	7215.3	4109.3	3703.7	4525.5	4973.8
65°	5461.2	3586.3	3237.6	4148.4	4610.9
67.5°	4116.4	3134.4	2874.7	3874.5	4326.3
70°	3091.7	2696.8	2583.0	3703.7	4109.3
72.5°	2284.1	2294.8	2351.7	3554.3	3863.8
75°	1686.4	1931.9	2173.8	3376.4	3579.2
77.5°	1206.1	1601.0	2013.7	3162.9	3234.1
80°	836.1	1305.7	1846.5	2881.8	2821.3
82.5°	523.0	1046.0	1697.1	2572.3	2405.1
85°	295.3	800.5	1590.3	2213.0	2031.5
87.5°	131.6	597.7	1391.1	1725.5	1611.7
90°	0.0	334.4	921.5	1298.6	1309.3
92.5°	7.1	277.5	850.3	1188.3	1223.9
95°	14.2	234.8	811.2	1102.9	1152.7
97.5°	17.8	206.4	761.4	1024.7	1067.3
100°	21.3	185.0	700.9	942.8	978.4
102.5°	24.9	170.8	644.0	857.4	885.9
105°	28.5	156.5	590.6	782.7	804.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	35.6	121.0	444.7	562.1	579.9
115°	39.1	110.3	398.5	498.1	508.8
117.5°	42.7	96.1	348.7	437.6	441.2
120°	42.7	85.4	298.9	373.6	373.6
122.5°	42.7	71.2	249.0	309.5	306.0
125°	42.7	56.9	202.8	256.2	252.6
127.5°	39.1	46.3	163.7	213.5	209.9
130°	39.1	46.3	131.6	181.4	181.4
132.5°	35.6	42.7	106.7	156.5	156.5
135°	35.6	42.7	88.9	138.8	138.8
137.5°	35.6	46.3	74.7	121.0	121.0
140°	35.6	42.7	64.0	106.7	106.7
142.5°	39.1	42.7	56.9	92.5	92.5
145°	42.7	46.3	53.4	81.8	78.3
147.5°	42.7	49.8	53.4	71.2	67.6
150°	42.7	53.4	53.4	64.0	60.5
152.5°	42.7	53.4	53.4	60.5	56.9
155°	42.7	53.4	56.9	60.5	53.4
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°	28.5	145.9	540.8	700.9	725.8
110°	32.0	131.6	494.5	626.2	651.1



(END OF REPORT)