

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: P830639

Luminaire Tested: **OHBL-60HE-N-UNV-L930-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P830639  
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-60HE-N-UNV-L930-CD  
Description: 60000 LUMEN OHBL HE LED LUMINAIRE WITH 90CRI, 3000K LEDS AND NARROW LENS  
Light Source: -  
Ballast/Driver: -

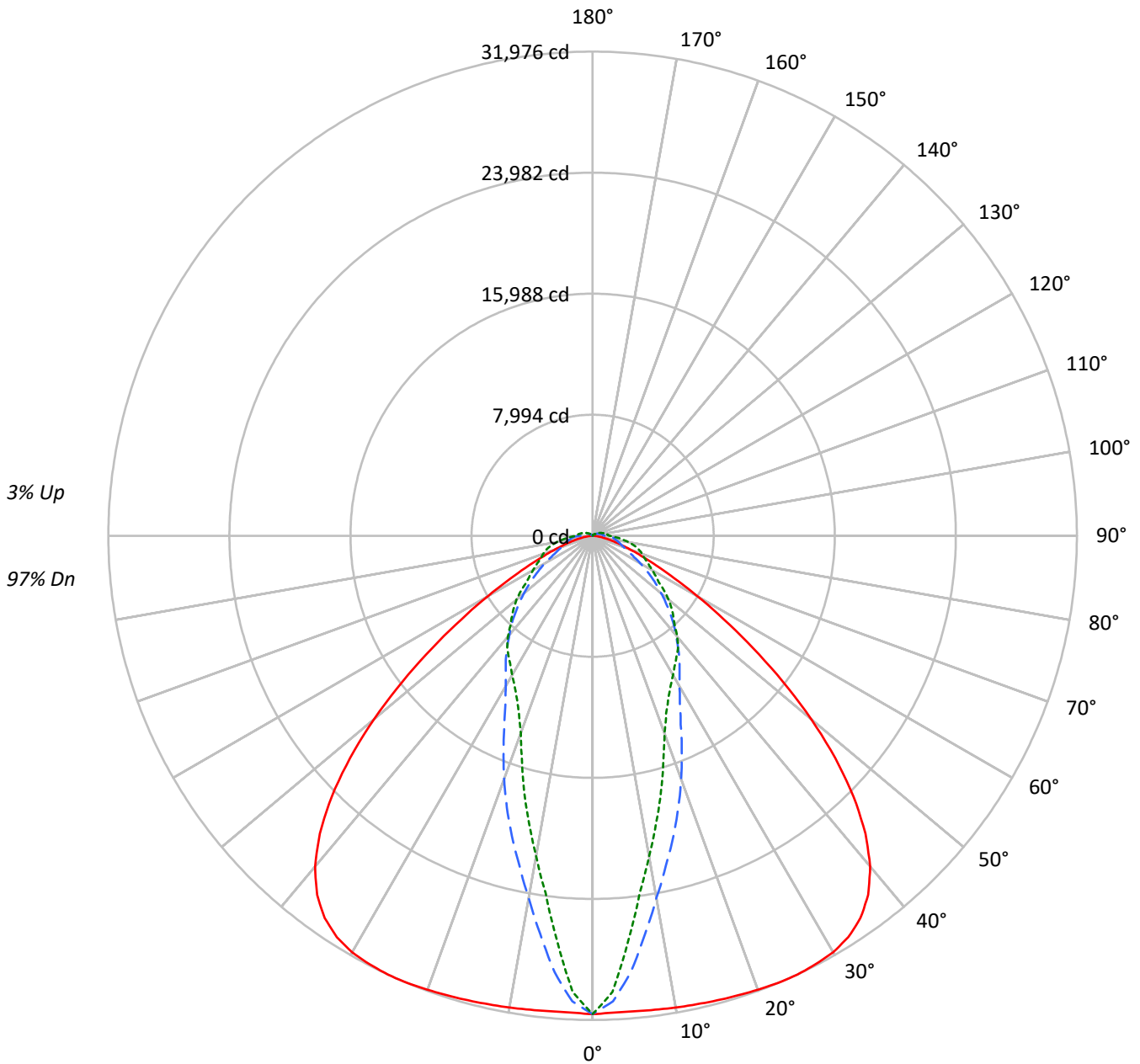
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 46621.0 lumens  
Efficiency: N/A  
Efficacy: 137.9 lumens/watt  
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78  
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 338  
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°	49956	49956	49956
5°	49854	45514	42325
10°	50417	38356	33960
15°	51401	32818	27891
20°	52845	27762	22574
25°	54673	22991	19794
30°	56563	19817	18402
35°	57740	18070	17546
40°	56752	16333	16661
45°	52209	14770	15441
50°	44049	13060	14509
55°	33470	11450	12929
60°	23456	9831	12399
65°	15777	8480	12164
70°	10775	7974	12799
75°	7477	8249	13733
80°	5147	9179	14236
85°	3010	11586	15132



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2659.1	5.7
10°-20°	6255.3	13.4
20°-30°	7840.9	16.8
30°-40°	8320.1	17.8
40°-50°	7522.7	16.1
50°-60°	5454.5	11.7
60°-70°	3422.9	7.3
70°-80°	2265.2	4.9
80°-90°	1305.0	2.8
90°-100°	632.2	1.4
100°-110°	436.4	0.9
110°-120°	269.3	0.6
120°-130°	130.4	0.3
130°-140°	60.0	0.1
140°-150°	32.8	0.1
150°-160°	14.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	16755.3	35.9
0°-40°	25075.4	53.8
0°-60°	38052.6	81.6
0°-90°	45045.7	96.6
90°-120°	1337.9	2.9
90°-150°	1561.1	3.3
90°-180°	1575.0	3.4
0°-180°	46621.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	31588	31588	31588	31588	31588	
5°	31525	30716	28912	27572	26877	###
15°	31766	25891	20564	18288	17458	9008
25°	31976	20020	13769	12221	11833	14772
35°	30831	13309	9993	9681	9678	19166
45°	24373	8430	7242	7417	7543	18567
55°	12904	5225	4726	5126	5309	11659
65°	4615	3030	2736	3506	3896	4802
75°	1425	1632	1837	2853	3024	1589
85°	250	676	1344	1870	1717	299
90°	0	283	779	1097	1106	16
95°	12	198	686	932	974	11
105°	24	132	499	661	679	24
115°	33	93	337	421	430	32
125°	36	48	171	216	214	31
135°	30	36	75	117	117	24
145°	36	39	45	69	66	22
155°	36	45	48	51	45	11
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°	31588.2	31588.2	31588.2	31588.2	31588.2
2.5°	31522.1	31341.7	30779.5	30436.8	30148.1
5°	31525.1	30716.4	28912.5	27571.7	26877.2
7.5°	31570.2	29772.3	26522.4	24565.3	23801.6
10°	31639.3	28602.9	24291.7	22205.2	21492.7
12.5°	31690.4	27286.1	22328.5	20184.9	19403.3
15°	31765.6	25891.1	20563.8	18287.9	17458.1
17.5°	31834.7	24577.3	18820.0	16442.0	15519.0
20°	31903.9	23161.3	17076.3	14626.1	13865.5
22.5°	31970.0	21667.1	15374.7	13216.1	12696.0
25°	31976.0	20019.6	13769.3	12221.0	11833.2
27.5°	31897.9	18312.0	12467.5	11388.2	11147.7
30°	31762.6	16655.4	11457.4	10787.0	10615.6
32.5°	31425.9	14965.8	10675.7	10206.7	10107.5
35°	30830.6	13309.3	9993.3	9680.6	9677.6
37.5°	29892.6	11839.2	9253.7	9199.6	9265.7
40°	28506.7	10552.5	8553.2	8697.5	8697.5
42.5°	26657.7	9434.1	7918.8	8066.2	8027.1
45°	24372.9	8429.9	7242.4	7416.8	7543.1
47.5°	21724.2	7546.1	6550.9	6887.7	7062.0
50°	18844.1	6704.3	5919.6	6349.5	6547.9
52.5°	15825.7	5925.6	5303.3	5796.3	5955.7
55°	12903.5	5225.1	4726.1	5125.9	5309.3
57.5°	10257.8	4557.7	4160.9	4539.7	4918.5
60°	7982.0	3983.5	3628.7	4169.9	4548.7
62.5°	6097.0	3472.4	3129.7	3824.1	4202.9
65°	4614.8	3030.4	2735.8	3505.5	3896.3
67.5°	3478.4	2648.6	2429.2	3274.0	3655.8
70°	2612.6	2278.8	2182.6	3129.7	3472.4
72.5°	1930.1	1939.1	1987.2	3003.4	3264.9
75°	1425.0	1632.5	1836.9	2853.1	3024.4
77.5°	1019.2	1352.9	1701.6	2672.7	2732.8
80°	706.5	1103.3	1560.3	2435.2	2384.1
82.5°	441.9	883.9	1434.1	2173.6	2032.3
85°	249.5	676.4	1343.9	1870.0	1716.7
87.5°	111.2	505.1	1175.5	1458.1	1361.9
90°	0.0	282.6	778.7	1097.3	1106.4
92.5°	6.0	234.5	718.5	1004.1	1034.2
95°	12.0	198.4	685.5	932.0	974.1
97.5°	15.0	174.4	643.4	865.8	901.9
100°	18.0	156.3	592.3	796.7	826.8
102.5°	21.0	144.3	544.2	724.5	748.6
105°	24.1	132.3	499.1	661.4	679.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	30.1	102.2	375.8	475.0	490.0
115°	33.1	93.2	336.7	420.9	429.9
117.5°	36.1	81.2	294.6	369.8	372.8
120°	36.1	72.2	252.5	315.7	315.7
122.5°	36.1	60.1	210.4	261.6	258.6
125°	36.1	48.1	171.4	216.5	213.5
127.5°	33.1	39.1	138.3	180.4	177.4
130°	33.1	39.1	111.2	153.3	153.3
132.5°	30.1	36.1	90.2	132.3	132.3
135°	30.1	36.1	75.2	117.2	117.2
137.5°	30.1	39.1	63.1	102.2	102.2
140°	30.1	36.1	54.1	90.2	90.2
142.5°	33.1	36.1	48.1	78.2	78.2
145°	36.1	39.1	45.1	69.1	66.1
147.5°	36.1	42.1	45.1	60.1	57.1
150°	36.1	45.1	45.1	54.1	51.1
152.5°	36.1	45.1	45.1	51.1	48.1
155°	36.1	45.1	48.1	51.1	45.1
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°	24.1	123.3	457.0	592.3	613.3
110°	27.1	111.2	417.9	529.1	550.2



(END OF REPORT)