

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: P830203

Luminaire Tested: **OHBL-30HE-N-UNV-L830-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830203
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-30HE-N-UNV-L830-CD
Description: 30000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 3000K LEDS AND NARROW LENS
Light Source: -
Ballast/Driver: -

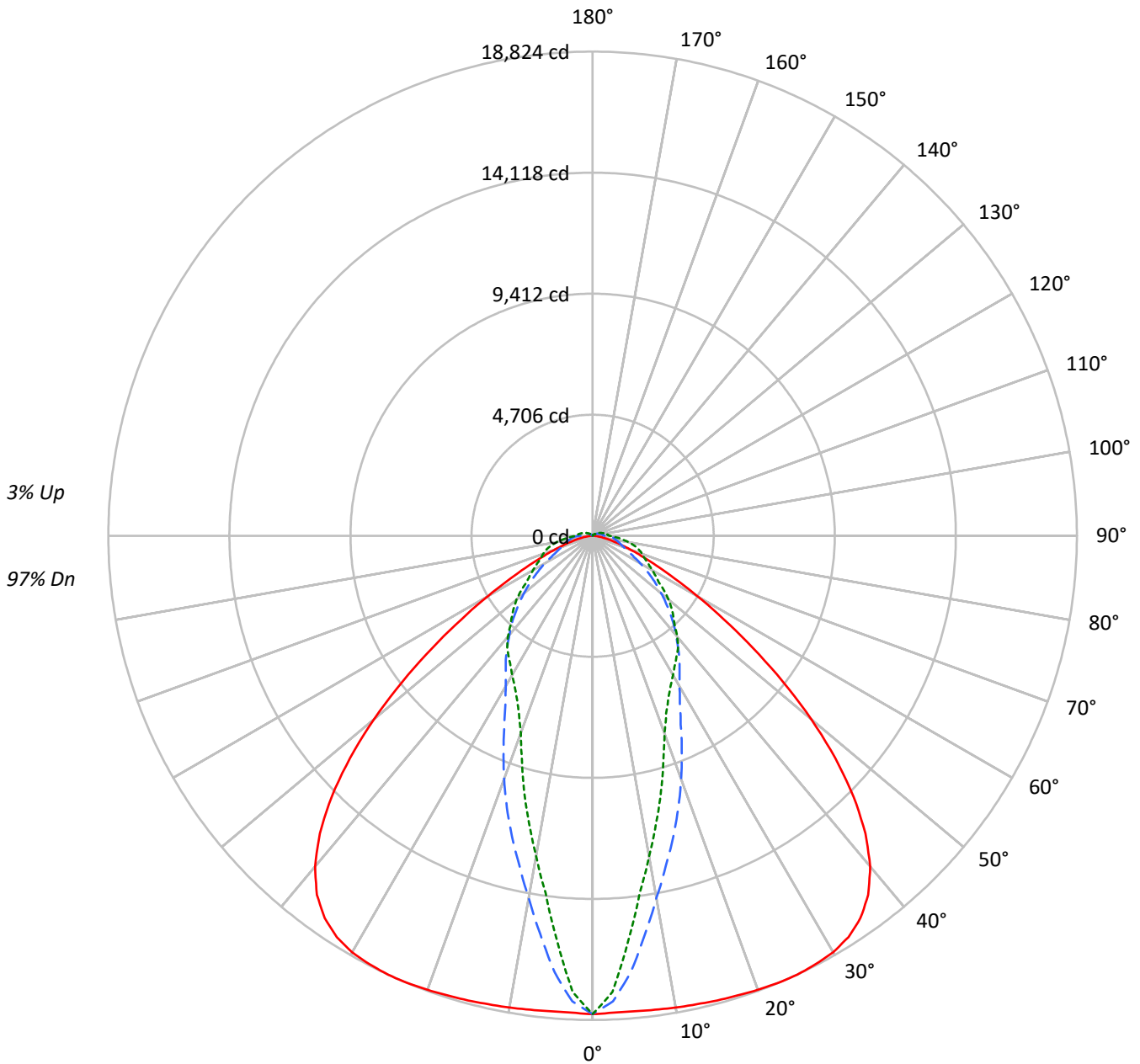
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27446.0 lumens
Efficiency: N/A
Efficacy: 167.6 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): 163.8
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	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°	29409	29409	29409
5°	29350	26794	24917
10°	29681	22580	19992
15°	30260	19320	16420
20°	31110	16344	13290
25°	32186	13535	11653
30°	33299	11666	10833
35°	33992	10638	10329
40°	33410	9615	9808
45°	30736	8695	9090
50°	25932	7688	8541
55°	19704	6741	7611
60°	13808	5788	7299
65°	9288	4992	7161
70°	6343	4695	7535
75°	4402	4856	8085
80°	3030	5404	8381
85°	1772	6820	8908



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1565.4	5.7
10°-20°	3682.5	13.4
20°-30°	4616.0	16.8
30°-40°	4898.1	17.8
40°-50°	4428.7	16.1
50°-60°	3211.1	11.7
60°-70°	2015.1	7.3
70°-80°	1333.5	4.9
80°-90°	768.2	2.8
90°-100°	372.2	1.4
100°-110°	256.9	0.9
110°-120°	158.5	0.6
120°-130°	76.8	0.3
130°-140°	35.3	0.1
140°-150°	19.3	0.1
150°-160°	8.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
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0°-30°	9863.9	35.9
0°-40°	14762.0	53.8
0°-60°	22401.7	81.6
0°-90°	26518.6	96.6
90°-120°	787.6	2.9
90°-150°	919.0	3.3
90°-180°	927.0	3.4
0°-180°	27446.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	18596	18596	18596	18596	18596	
5°	18559	18083	17021	16232	15823	###
15°	18701	15242	12106	10766	10278	5303
25°	18824	11786	8106	7195	6966	8697
35°	18150	7835	5883	5699	5697	11283
45°	14348	4963	4264	4366	4441	10931
55°	7596	3076	2782	3018	3126	6863
65°	2717	1784	1611	2064	2294	2827
75°	839	961	1081	1680	1780	935
85°	147	398	791	1101	1011	176
90°	0	166	458	646	651	9
95°	7	117	404	549	573	6
105°	14	78	294	389	400	14
115°	20	55	198	248	253	19
125°	21	28	101	127	126	18
135°	18	21	44	69	69	14
145°	21	23	26	41	39	13
155°	21	26	28	30	26	7
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-30HE-N-UNV-L830-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	18596.1	18596.1	18596.1	18596.1	18596.1
2.5°	18557.2	18451.0	18120.0	17918.3	17748.4
5°	18559.0	18082.9	17020.9	16231.6	15822.7
7.5°	18585.5	17527.1	15613.9	14461.7	14012.1
10°	18626.2	16838.6	14300.6	13072.3	12652.9
12.5°	18656.3	16063.4	13144.9	11883.0	11422.8
15°	18700.6	15242.2	12106.0	10766.2	10277.7
17.5°	18741.3	14468.8	11079.4	9679.5	9136.1
20°	18782.0	13635.2	10052.9	8610.5	8162.7
22.5°	18820.9	12755.5	9051.2	7780.4	7474.2
25°	18824.4	11785.6	8106.1	7194.6	6966.2
27.5°	18778.4	10780.3	7339.7	6704.3	6562.7
30°	18698.8	9805.1	6745.0	6350.3	6249.4
32.5°	18500.6	8810.5	6284.8	6008.7	5950.3
35°	18150.1	7835.3	5883.1	5699.0	5697.2
37.5°	17597.9	6969.8	5447.7	5415.8	5454.8
40°	16782.0	6212.3	5035.3	5120.3	5120.3
42.5°	15693.5	5553.9	4661.9	4748.6	4725.6
45°	14348.4	4962.7	4263.6	4366.3	4440.6
47.5°	12789.2	4442.4	3856.6	4054.8	4157.4
50°	11093.6	3946.8	3484.9	3738.0	3854.8
52.5°	9316.6	3488.4	3122.1	3412.3	3506.1
55°	7596.3	3076.1	2782.3	3017.6	3125.6
57.5°	6038.8	2683.1	2449.5	2672.5	2895.5
60°	4699.0	2345.1	2136.2	2454.8	2677.8
62.5°	3589.3	2044.2	1842.4	2251.3	2474.3
65°	2716.8	1784.0	1610.6	2063.7	2293.8
67.5°	2047.8	1559.3	1430.1	1927.4	2152.2
70°	1538.0	1341.6	1284.9	1842.4	2044.2
72.5°	1136.3	1141.6	1169.9	1768.1	1922.1
75°	838.9	961.0	1081.4	1679.6	1780.5
77.5°	600.0	796.4	1001.8	1573.4	1608.8
80°	415.9	649.5	918.6	1433.6	1403.5
82.5°	260.2	520.3	844.2	1279.6	1196.4
85°	146.9	398.2	791.1	1100.9	1010.6
87.5°	65.5	297.3	692.0	858.4	801.8
90°	0.0	166.4	458.4	646.0	651.3
92.5°	3.5	138.1	423.0	591.1	608.8
95°	7.1	116.8	403.5	548.7	573.4
97.5°	8.8	102.7	378.8	509.7	531.0
100°	10.6	92.0	348.7	469.0	486.7
102.5°	12.4	85.0	320.3	426.5	440.7
105°	14.2	77.9	293.8	389.4	400.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	17.7	60.2	221.2	279.6	288.5
115°	19.5	54.9	198.2	247.8	253.1
117.5°	21.2	47.8	173.4	217.7	219.5
120°	21.2	42.5	148.7	185.8	185.8
122.5°	21.2	35.4	123.9	154.0	152.2
125°	21.2	28.3	100.9	127.4	125.7
127.5°	19.5	23.0	81.4	106.2	104.4
130°	19.5	23.0	65.5	90.3	90.3
132.5°	17.7	21.2	53.1	77.9	77.9
135°	17.7	21.2	44.2	69.0	69.0
137.5°	17.7	23.0	37.2	60.2	60.2
140°	17.7	21.2	31.9	53.1	53.1
142.5°	19.5	21.2	28.3	46.0	46.0
145°	21.2	23.0	26.5	40.7	38.9
147.5°	21.2	24.8	26.5	35.4	33.6
150°	21.2	26.5	26.5	31.9	30.1
152.5°	21.2	26.5	26.5	30.1	28.3
155°	21.2	26.5	28.3	30.1	26.5
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°	14.2	72.6	269.0	348.7	361.1
110°	15.9	65.5	246.0	311.5	323.9



(END OF REPORT)