

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: P830167

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830167
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-200-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-30HE-A-UNV-L830-CD
Description: 30000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 3000K LEDS AND AISLE LENS
Light Source: -
Ballast/Driver: -

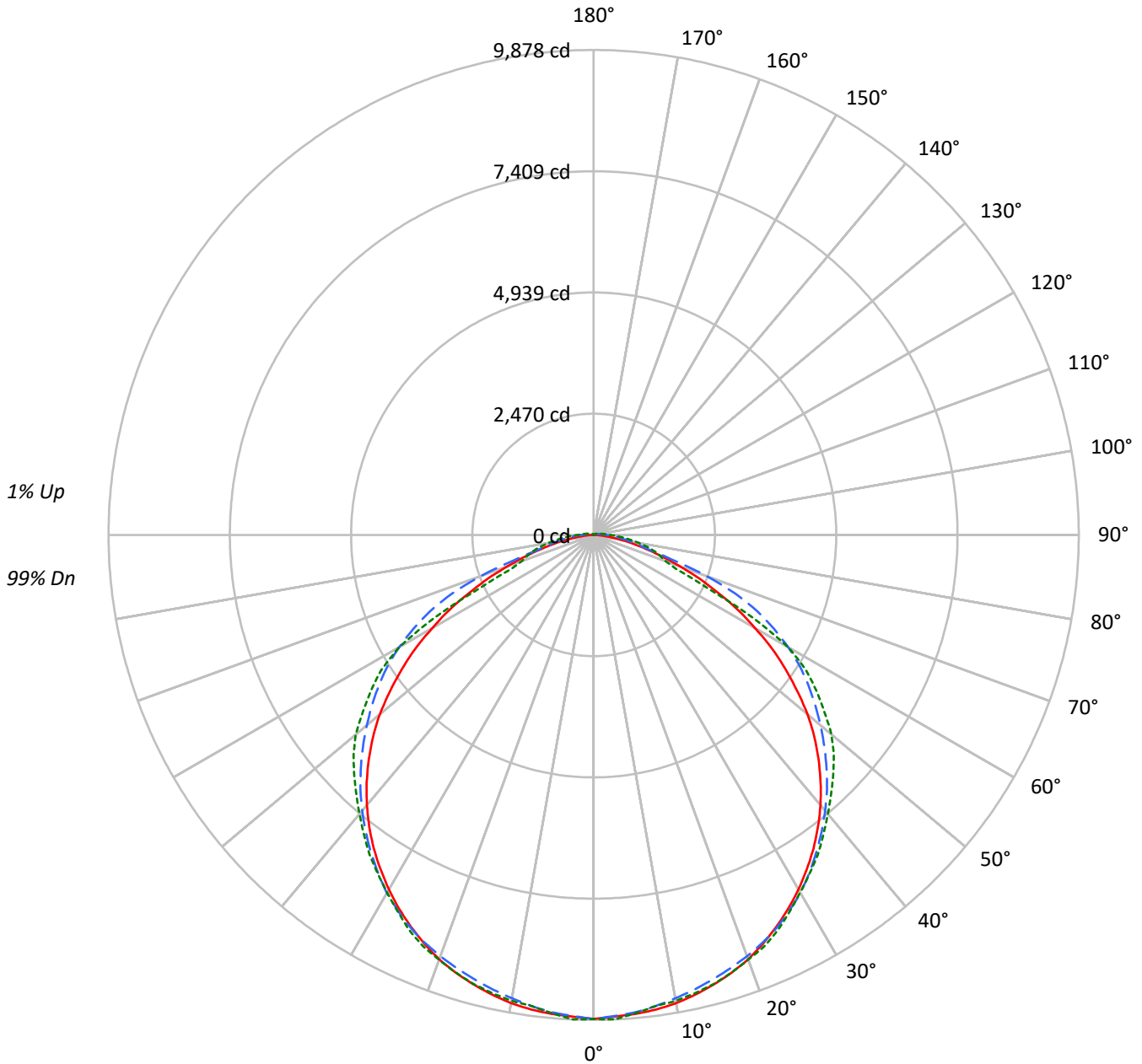
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27864.0 lumens
Efficiency: N/A
Efficacy: 170.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
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

TEST NUMBER: P830167
CATALOG NUMBER: OHBL-30HE-A-UNV-L830-CD

Luminous Intensity Polar Plot





TEST NUMBER: P830167

CATALOG NUMBER: OHBL-30HE-A-UNV-L830-CD

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	119	119	119	119	116	116	116	116	110	110	110	106	106	106	101	101	101				99																
1	109	104	100	96	106	102	98	95	97	94	91	93	91	88	90	87	86				83																
2	99	91	84	79	96	89	83	78	85	80	76	82	78	74	79	75	72				70																
3	91	80	72	66	88	79	71	65	75	69	64	72	67	63	70	65	61				59																
4	83	71	62	56	81	70	62	55	67	60	54	65	59	54	62	57	53				51																
5	76	64	55	48	74	62	54	48	60	53	47	58	52	46	56	50	46				44																
6	70	57	48	42	68	56	48	42	54	47	41	52	46	41	51	45	40				38																
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36				34																
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	42	36	32				30																
9	57	43	35	30	55	43	35	29	41	34	29	40	34	29	39	33	29				27																
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	36	30	26				24																

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15591	15591	15591
5°	15489	15364	15397
10°	15432	15131	15225
15°	15334	14957	15124
20°	15236	14848	14990
25°	15052	14737	14857
30°	14852	14563	14576
35°	14613	14287	14421
40°	14302	14002	14210
45°	13872	13672	14117
50°	13288	13296	14005
55°	12360	12926	13482
60°	11146	12386	12464
65°	9562	11381	7899
70°	7701	8885	5727
75°	5774	5275	5812
80°	4019	4385	5550
85°	2288	4018	5202



TEST NUMBER: P830167

CATALOG NUMBER: OHBL-30HE-A-UNV-L830-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	929.5	3.3
10°-20°	2665.5	9.6
20°-30°	4071.1	14.6
30°-40°	4939.6	17.7
40°-50°	5177.2	18.6
50°-60°	4691.3	16.8
60°-70°	3145.3	11.3
70°-80°	1412.4	5.1
80°-90°	512.5	1.8
90°-100°	154.3	0.6
100°-110°	72.8	0.3
110°-120°	36.5	0.1
120°-130°	20.1	0.1
130°-140°	13.8	0.0
140°-150°	9.3	0.0
150°-160°	6.9	0.0
160°-170°	4.4	0.0
170°-180°	1.4	0.0
0°-30°	7666.1	27.5
0°-40°	12605.7	45.2
0°-60°	22474.1	80.7
0°-90°	27544.4	98.9
90°-120°	263.6	0.9
90°-150°	306.9	1.1
90°-180°	320.0	1.1
0°-180°	27864.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9858	9858	9858	9858	9858	
5°	9794	9828	9760	9790	9777	932
15°	9476	9439	9372	9455	9466	2676
25°	8804	8765	8826	8908	8882	4058
35°	7803	7821	7901	7985	7954	4877
45°	6476	6581	6704	6875	6896	4989
55°	4765	4995	5335	5549	5536	4254
65°	2797	3234	3672	3099	2530	2787
75°	1100	1596	1175	1202	1280	1203
85°	190	364	466	563	590	231
90°	1	121	241	302	316	11
95°	1	76	165	201	207	2
105°	6	33	81	98	103	7
115°	11	17	41	53	56	11
125°	10	11	26	30	31	10
135°	13	14	16	23	24	10
145°	13	14	14	16	17	8
155°	14	16	16	16	14	7
165°	16	16	16	16	16	4
175°	16	16	14	13	13	2
180°	14	14	14	14	14	



TEST NUMBER: P830167

CATALOG NUMBER: OHBL-30HE-A-UNV-L830-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9858.3	9858.3	9858.3	9858.3	<i>9858.3</i>
2.5°	<i>9818.4</i>	<i>9859.7</i>	<i>9808.4</i>	<i>9864.0</i>	<i>9878.3</i>
5°	9794.2	9828.4	9760.0	9789.9	<i>9777.1</i>
7.5°	9750.0	9761.4	9680.1	9704.4	<i>9678.7</i>
10°	9684.4	9678.7	9583.2	9630.2	<i>9635.9</i>
12.5°	9587.5	9570.4	9484.8	9556.1	<i>9557.5</i>
15°	9476.3	9439.2	9372.2	9454.9	<i>9466.3</i>
17.5°	9348.0	9299.5	9255.3	9362.3	<i>9345.2</i>
20°	9198.3	9141.3	9132.8	9249.6	<i>9206.9</i>
22.5°	9013.0	8968.8	8988.8	9100.0	<i>9072.9</i>
25°	8803.5	8765.0	8826.3	8907.5	<i>8881.9</i>
27.5°	8582.5	8559.7	8629.6	8692.3	<i>8642.4</i>
30°	8340.2	8327.4	8420.0	8471.4	<i>8408.6</i>
32.5°	8076.5	8080.8	8169.2	8239.0	<i>8180.6</i>
35°	7802.8	7821.4	7901.2	7985.3	<i>7953.9</i>
37.5°	7502.1	7543.4	7623.2	7718.7	<i>7685.9</i>
40°	7184.2	7244.1	7332.4	7447.9	<i>7418.0</i>
42.5°	6840.7	6916.2	7030.2	7158.5	<i>7155.7</i>
45°	6475.8	6581.2	6703.8	6874.9	<i>6896.3</i>
47.5°	6096.6	6214.9	6370.3	6598.3	<i>6631.1</i>
50°	5684.6	5832.9	6026.7	6300.4	<i>6320.4</i>
52.5°	5225.6	5428.1	5684.6	5946.9	<i>5922.7</i>
55°	4765.2	4994.7	5335.4	5549.2	<i>5536.4</i>
57.5°	4306.2	4564.2	4977.6	5130.1	<i>5128.7</i>
60°	3793.1	4119.5	4571.4	4686.8	<i>4572.8</i>
62.5°	3318.4	3669.1	4138.0	4053.9	<i>3663.4</i>
65°	2796.7	3234.3	3671.9	3098.9	<i>2530.1</i>
67.5°	2333.4	2789.6	3118.9	2122.5	<i>1817.4</i>
70°	1867.3	2370.5	2431.8	1575.1	<i>1553.7</i>
72.5°	1453.9	1989.9	1677.7	1348.5	<i>1416.9</i>
75°	1100.4	1596.5	1174.6	1201.6	<i>1280.0</i>
77.5°	802.5	1225.9	913.7	1053.4	<i>1117.5</i>
80°	551.6	868.1	745.5	885.2	<i>929.4</i>
82.5°	346.4	573.0	597.3	712.7	<i>758.3</i>
85°	189.6	363.5	466.1	563.0	<i>590.1</i>
87.5°	78.4	219.5	356.4	434.8	<i>457.6</i>
90°	1.4	121.2	240.9	302.2	<i>316.4</i>
92.5°	1.4	92.7	196.7	243.7	<i>253.7</i>
95°	1.4	75.5	165.4	201.0	<i>206.7</i>
97.5°	2.9	59.9	138.3	166.8	<i>172.5</i>
100°	4.3	49.9	115.5	139.7	<i>144.0</i>
102.5°	5.7	39.9	96.9	116.9	<i>121.2</i>
105°	5.7	32.8	81.2	98.4	<i>102.6</i>



TEST NUMBER: P830167

CATALOG NUMBER: OHBL-30HE-A-UNV-L830-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	10.0	20.0	48.5	61.3	64.1
115°	11.4	17.1	41.3	52.7	55.6
117.5°	11.4	14.3	35.6	44.2	47.0
120°	11.4	12.8	31.4	38.5	39.9
122.5°	11.4	11.4	27.1	34.2	35.6
125°	10.0	11.4	25.7	29.9	31.4
127.5°	11.4	11.4	22.8	27.1	28.5
130°	11.4	12.8	20.0	25.7	25.7
132.5°	12.8	14.3	18.5	24.2	24.2
135°	12.8	14.3	15.7	22.8	24.2
137.5°	14.3	14.3	14.3	21.4	22.8
140°	14.3	14.3	12.8	18.5	20.0
142.5°	12.8	14.3	12.8	17.1	18.5
145°	12.8	14.3	14.3	15.7	17.1
147.5°	14.3	14.3	14.3	14.3	15.7
150°	14.3	14.3	14.3	14.3	14.3
152.5°	14.3	14.3	14.3	14.3	14.3
155°	14.3	15.7	15.7	15.7	14.3
157.5°	14.3	15.7	15.7	15.7	15.7
160°	14.3	15.7	15.7	15.7	15.7
162.5°	15.7	15.7	15.7	15.7	15.7
165°	15.7	15.7	15.7	15.7	15.7
167.5°	15.7	17.1	15.7	15.7	15.7
170°	15.7	15.7	15.7	14.3	14.3
172.5°	15.7	15.7	15.7	14.3	14.3
175°	15.7	15.7	14.3	12.8	12.8
177.5°	17.1	15.7	14.3	12.8	11.4
180°	14.3	14.3	14.3	14.3	14.3



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







107.5°	7.1	27.1	69.8	84.1	87.0
110°	8.6	22.8	58.4	71.3	74.1



(END OF REPORT)