

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: P830083

Luminaire Tested: **OHBL-24HE-W-UNV-L830-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830083
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-24HE-W-UNV-L830-CD
Description: 24000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 3000K LEDS AND WIDE LENS
Light Source: -
Ballast/Driver: -

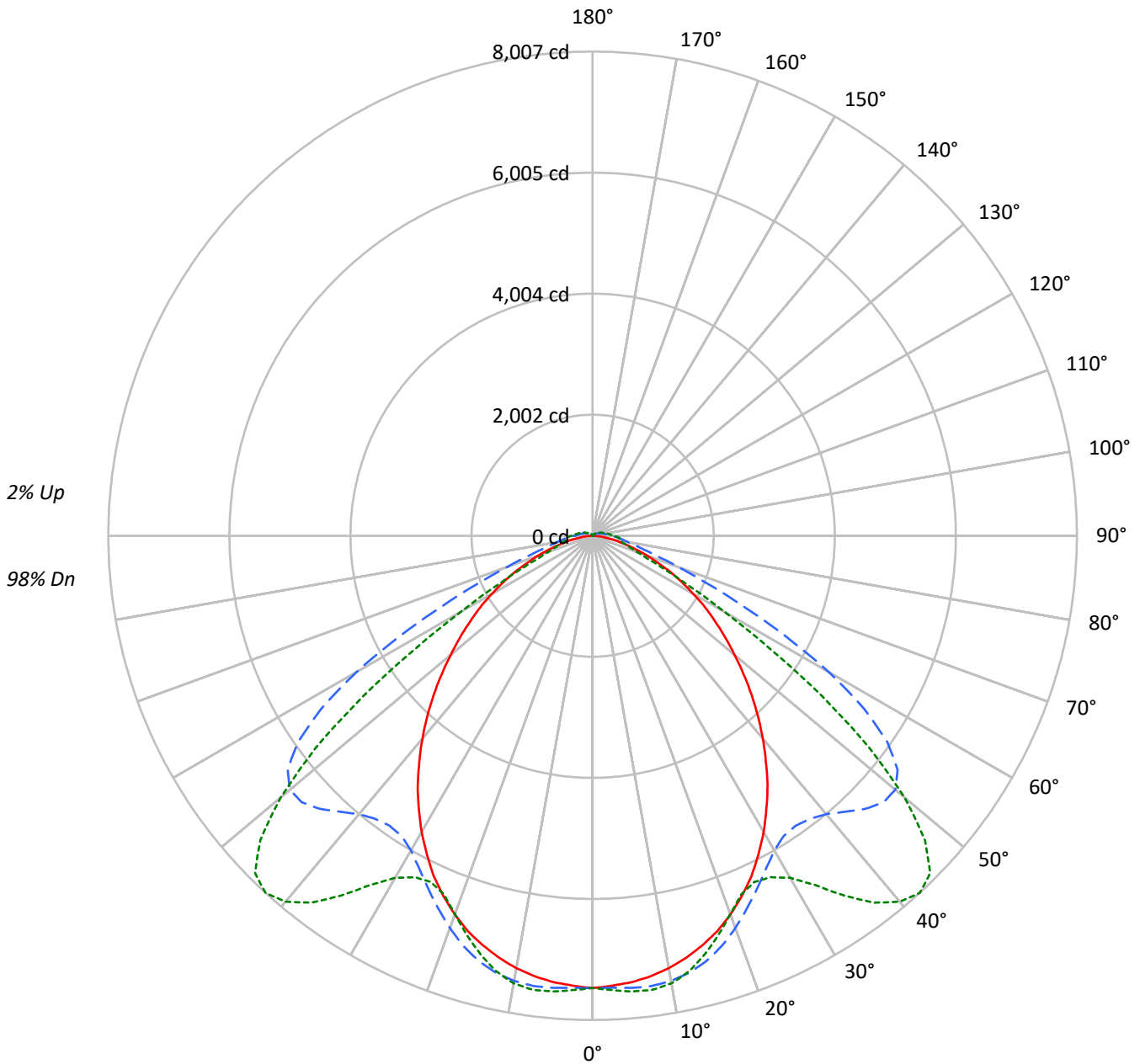
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22394.0 lumens
Efficiency: N/A
Efficacy: 168.4 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 133
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: P830083
CATALOG NUMBER: OHBL-24HE-W-UNV-L830-CD

Luminous Intensity Polar Plot





TEST NUMBER: P830083

CATALOG NUMBER: OHBL-24HE-W-UNV-L830-CD

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				20
RC	80				70				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	105	105	105	100	100	100	98			
1	109	104	100	96	106	102	98	95	97	94	91	93	90	88	89	87	85	83			
2	99	91	85	79	96	89	83	78	85	80	76	82	77	74	78	75	72	70			
3	90	80	72	66	88	78	71	65	75	69	64	72	67	62	69	65	61	59			
4	83	71	62	56	80	69	61	55	67	60	54	64	58	53	62	57	52	50			
5	76	63	54	48	74	62	54	47	60	52	47	57	51	46	55	50	45	43			
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	50	44	40	38			
7	65	51	43	36	63	50	42	36	49	41	36	47	40	35	45	40	35	33			
8	60	47	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29			
9	56	43	34	29	55	42	34	29	41	34	28	39	33	28	38	32	28	26			
10	52	39	31	26	51	39	31	26	38	31	26	36	30	26	35	30	25	24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11828	11828	11828
5°	11718	11817	11913
10°	11571	11804	11876
15°	11345	11614	11446
20°	11036	11220	10837
25°	10622	10742	10570
30°	10072	10388	11317
35°	9444	10586	13171
40°	8715	11472	15134
45°	7954	13022	16155
50°	7159	14411	14913
55°	6412	14406	11285
60°	5652	12202	6817
65°	4849	8438	4066
70°	3940	5465	2873
75°	2997	3927	2579
80°	2151	3465	2756
85°	1460	3840	3883



TEST NUMBER: P830083

CATALOG NUMBER: OHBL-24HE-W-UNV-L830-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	714.7	3.2
10°-20°	2023.9	9.0
20°-30°	2961.6	13.2
30°-40°	3846.3	17.2
40°-50°	4696.8	21.0
50°-60°	4136.2	18.5
60°-70°	2155.4	9.6
70°-80°	924.3	4.1
80°-90°	443.9	2.0
90°-100°	208.5	0.9
100°-110°	129.6	0.6
110°-120°	76.7	0.3
120°-130°	41.7	0.2
130°-140°	20.9	0.1
140°-150°	10.1	0.0
150°-160°	3.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	5700.2	25.5
0°-40°	9546.4	42.6
0°-60°	18379.4	82.1
0°-90°	21903.1	97.8
90°-120°	414.8	1.9
90°-150°	487.4	2.2
90°-180°	491.0	2.2
0°-180°	22394.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7479	7479	7479	7479	7479	
5°	7410	7466	7507	7573	7565	703
15°	7011	7208	7278	7223	7164	1974
25°	6212	6545	6434	6312	6319	2851
35°	5043	5575	5854	6827	7265	3143
45°	3713	4672	6385	7731	7892	2863
55°	2472	4092	5946	5214	4634	2219
65°	1418	2835	2722	1514	1302	1403
75°	571	1326	875	599	568	623
85°	121	473	445	436	440	135
90°	2	171	294	336	344	8
95°	3	100	234	274	282	2
105°	6	56	152	182	186	7
115°	10	32	94	115	118	10
125°	11	16	55	71	73	10
135°	10	10	26	44	45	8
145°	13	10	11	21	24	8
155°	13	13	10	10	10	4
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P830083

CATALOG NUMBER: OHBL-24HE-W-UNV-L830-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7479.2	7479.2	7479.2	7479.2	7479.2
2.5°	7446.9	7479.2	7480.8	7526.0	7521.1
5°	7409.8	7466.3	7506.6	7572.8	7564.7
7.5°	7348.5	7437.2	7508.2	7580.8	7574.4
10°	7261.3	7382.4	7476.0	7535.7	7516.3
12.5°	7148.4	7308.1	7400.1	7413.0	7375.9
15°	7011.2	7208.1	7277.5	7222.6	7164.5
17.5°	6856.3	7087.1	7111.3	6991.9	6919.3
20°	6662.7	6925.7	6901.5	6736.9	6656.2
22.5°	6448.1	6748.2	6670.8	6498.1	6420.6
25°	6212.5	6544.9	6433.6	6312.5	6319.0
27.5°	5936.6	6314.1	6206.0	6260.9	6364.2
30°	5655.8	6072.1	6005.9	6325.4	6528.8
32.5°	5347.6	5823.6	5883.3	6514.2	6846.6
35°	5042.6	5575.1	5854.3	6827.3	7264.6
37.5°	4705.4	5323.4	5901.1	7188.7	7647.0
40°	4377.8	5078.1	6007.6	7513.1	7900.3
42.5°	4043.8	4858.6	6186.7	7705.1	8006.8
45°	3713.0	4671.5	6385.1	7730.9	7892.3
47.5°	3382.2	4513.3	6522.3	7526.0	7451.8
50°	3062.7	4372.9	6532.0	7033.8	6730.5
52.5°	2764.2	4243.9	6354.5	6249.6	5778.4
55°	2472.1	4092.2	5946.2	5213.6	4634.4
57.5°	2205.8	3882.4	5316.9	4100.2	3467.7
60°	1923.5	3598.4	4503.6	2999.7	2501.1
62.5°	1663.7	3245.0	3591.9	2088.0	1797.6
65°	1418.4	2835.2	2722.2	1513.6	1302.2
67.5°	1158.6	2410.8	2009.0	1103.7	968.2
70°	955.3	2017.0	1495.8	858.5	779.4
72.5°	747.1	1642.7	1118.2	697.1	653.5
75°	571.2	1326.4	874.6	598.7	568.0
77.5°	421.2	1048.9	703.5	529.3	500.2
80°	295.3	826.2	589.0	472.8	461.5
82.5°	198.5	639.0	501.8	450.2	451.8
85°	121.0	472.8	445.4	435.7	440.5
87.5°	58.1	335.6	382.4	397.0	401.8
90°	1.6	171.0	293.7	335.6	343.7
92.5°	0.0	130.7	258.2	300.1	308.2
95°	3.2	100.0	234.0	274.3	282.4
97.5°	3.2	82.3	209.8	251.7	256.6
100°	4.8	71.0	187.2	227.5	232.4
102.5°	4.8	62.9	167.8	203.3	206.5
105°	6.5	56.5	151.7	182.3	185.6



TEST NUMBER: P830083

CATALOG NUMBER: OHBL-24HE-W-UNV-L830-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	9.7	38.7	106.5	129.1	132.3
115°	9.7	32.3	93.6	114.6	117.8
117.5°	11.3	29.0	82.3	101.7	103.3
120°	11.3	24.2	71.0	90.4	92.0
122.5°	11.3	19.4	62.9	80.7	82.3
125°	11.3	16.1	54.9	71.0	72.6
127.5°	9.7	11.3	46.8	62.9	64.5
130°	9.7	9.7	38.7	54.9	58.1
132.5°	9.7	9.7	32.3	48.4	51.6
135°	9.7	9.7	25.8	43.6	45.2
137.5°	9.7	9.7	21.0	37.1	40.3
140°	9.7	9.7	16.1	32.3	33.9
142.5°	11.3	9.7	14.5	27.4	29.0
145°	12.9	9.7	11.3	21.0	24.2
147.5°	12.9	11.3	11.3	17.7	19.4
150°	12.9	12.9	9.7	12.9	16.1
152.5°	12.9	12.9	9.7	9.7	12.9
155°	12.9	12.9	9.7	9.7	9.7
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°	8.1	50.0	135.5	163.0	166.2
110°	8.1	43.6	119.4	145.2	148.5



(END OF REPORT)