

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: P829983

Luminaire Tested: **OHBL-18SE-N-UNV-L730-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829983
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-18SE-N-UNV-L730-CD
Description: 18000 LUMEN OHBL SE LED LUMINAIRE WITH 70CRI, 3000K LEDS AND NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

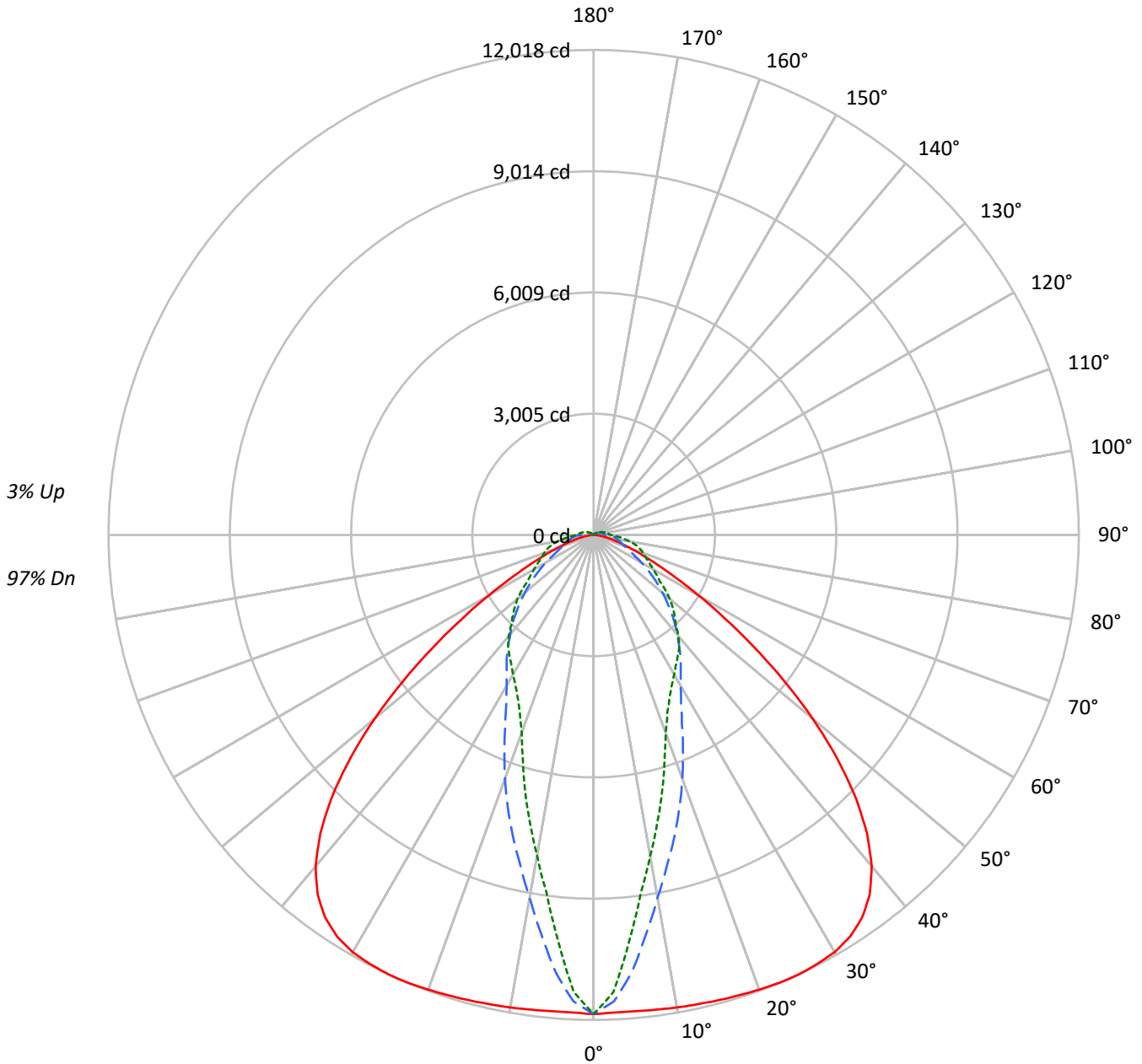
Lumens per Lamp: N/A
Luminaire Lumens: 17522.0 lumens
Efficiency: N/A
Efficacy: 166.9 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 105
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: P829983

CATALOG NUMBER: OHBL-18SE-N-UNV-L730-CD

Luminous Intensity Polar Plot





TEST NUMBER: P829983

CATALOG NUMBER: OHBL-18SE-N-UNV-L730-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	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°	20277	20277	20277
5°	20236	18466	17169
10°	20464	15555	13767
15°	20864	13303	11299
20°	21450	11248	9139
25°	22192	9310	8008
30°	22959	8021	7439
35°	23437	7310	7087
40°	23036	6603	6724
45°	21192	5967	6225
50°	17880	5271	5843
55°	13586	4617	5199
60°	9521	3960	4978
65°	6404	3410	4873
70°	4374	3200	5113
75°	3035	3301	5462
80°	2089	3655	5623
85°	1222	4573	5899



TEST NUMBER: P829983

CATALOG NUMBER: OHBL-18SE-N-UNV-L730-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	999.4	5.7
10°-20°	2351.0	13.4
20°-30°	2946.9	16.8
30°-40°	3127.0	17.8
40°-50°	2827.3	16.1
50°-60°	2050.0	11.7
60°-70°	1286.5	7.3
70°-80°	851.3	4.9
80°-90°	490.5	2.8
90°-100°	237.6	1.4
100°-110°	164.0	0.9
110°-120°	101.2	0.6
120°-130°	49.0	0.3
130°-140°	22.5	0.1
140°-150°	12.3	0.1
150°-160°	5.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
<hr/>		
0°-30°	6297.3	35.9
0°-40°	9424.3	53.8
0°-60°	14301.7	81.6
0°-90°	16929.9	96.6
90°-120°	502.8	2.9
90°-150°	586.7	3.3
90°-180°	592.0	3.4
0°-180°	17522.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11872	11872	11872	11872	11872	
5°	11848	11544	10866	10362	10102	###
15°	11939	9731	7729	6873	6562	3386
25°	12018	7524	5175	4593	4447	5552
35°	11587	5002	3756	3638	3637	7203
45°	9160	3168	2722	2788	2835	6978
55°	4850	1964	1776	1926	1995	4382
65°	1734	1139	1028	1318	1464	1805
75°	536	614	690	1072	1137	597
85°	94	254	505	703	645	112
90°	0	106	293	412	416	6
95°	4	75	258	350	366	4
105°	9	50	188	249	255	9
115°	12	35	127	158	162	12
125°	14	18	64	81	80	12
135°	11	14	28	44	44	9
145°	14	15	17	26	25	8
155°	14	17	18	19	17	4
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P829983

CATALOG NUMBER: OHBL-18SE-N-UNV-L730-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	11872.1	11872.1	11872.1	11872.1	11872.1
2.5°	11847.2	11779.4	11568.1	11439.3	11330.9
5°	11848.4	11544.4	10866.5	10362.5	10101.5
7.5°	11865.3	11189.6	9968.2	9232.6	8945.6
10°	11891.3	10750.1	9129.8	8345.6	8077.8
12.5°	11910.5	10255.2	8391.9	7586.3	7292.5
15°	11938.8	9730.9	7728.7	6873.3	6561.5
17.5°	11964.7	9237.1	7073.3	6179.5	5832.7
20°	11990.7	8704.9	6418.0	5497.1	5211.2
22.5°	12015.6	8143.3	5778.4	4967.1	4771.7
25°	12017.8	7524.1	5175.0	4593.1	4447.4
27.5°	11988.5	6882.4	4685.8	4280.1	4189.8
30°	11937.6	6259.8	4306.1	4054.2	3989.8
32.5°	11811.1	5624.8	4012.4	3836.1	3798.8
35°	11587.3	5002.2	3755.9	3638.3	3637.2
37.5°	11234.8	4449.6	3477.9	3457.6	3482.4
40°	10713.9	3966.0	3214.6	3268.9	3268.9
42.5°	10019.0	3545.7	2976.2	3031.6	3016.9
45°	9160.3	3168.3	2722.0	2787.5	2835.0
47.5°	8164.8	2836.1	2462.1	2588.7	2654.2
50°	7082.4	2519.7	2224.8	2386.4	2461.0
52.5°	5947.9	2227.1	1993.2	2178.5	2238.4
55°	4849.6	1963.8	1776.2	1926.5	1995.4
57.5°	3855.3	1713.0	1563.8	1706.2	1848.6
60°	2999.9	1497.1	1363.8	1567.2	1709.6
62.5°	2291.5	1305.1	1176.2	1437.3	1579.6
65°	1734.4	1139.0	1028.2	1317.5	1464.4
67.5°	1307.3	995.5	913.0	1230.5	1374.0
70°	981.9	856.5	820.3	1176.2	1305.1
72.5°	725.4	728.8	746.9	1128.8	1227.1
75°	535.6	613.5	690.4	1072.3	1136.7
77.5°	383.0	508.5	639.5	1004.5	1027.1
80°	265.5	414.7	586.4	915.2	896.0
82.5°	166.1	332.2	539.0	816.9	763.8
85°	93.8	254.2	505.1	702.8	645.2
87.5°	41.8	189.8	441.8	548.0	511.9
90°	0.0	106.2	292.6	412.4	415.8
92.5°	2.3	88.1	270.1	377.4	388.7
95°	4.5	74.6	257.6	350.3	366.1
97.5°	5.6	65.5	241.8	325.4	339.0
100°	6.8	58.8	222.6	299.4	310.7
102.5°	7.9	54.2	204.5	272.3	281.4
105°	9.0	49.7	187.6	248.6	255.4



TEST NUMBER: P829983

CATALOG NUMBER: OHBL-18SE-N-UNV-L730-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	11.3	38.4	141.2	178.5	184.2
115°	12.4	35.0	126.6	158.2	161.6
117.5°	13.6	30.5	110.7	139.0	140.1
120°	13.6	27.1	94.9	118.6	118.6
122.5°	13.6	22.6	79.1	98.3	97.2
125°	13.6	18.1	64.4	81.4	80.2
127.5°	12.4	14.7	52.0	67.8	66.7
130°	12.4	14.7	41.8	57.6	57.6
132.5°	11.3	13.6	33.9	49.7	49.7
135°	11.3	13.6	28.2	44.1	44.1
137.5°	11.3	14.7	23.7	38.4	38.4
140°	11.3	13.6	20.3	33.9	33.9
142.5°	12.4	13.6	18.1	29.4	29.4
145°	13.6	14.7	16.9	26.0	24.9
147.5°	13.6	15.8	16.9	22.6	21.5
150°	13.6	16.9	16.9	20.3	19.2
152.5°	13.6	16.9	16.9	19.2	18.1
155°	13.6	16.9	18.1	19.2	16.9
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°	9.0	46.3	171.7	222.6	230.5
110°	10.2	41.8	157.1	198.9	206.8



(END OF REPORT)