

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: P829959

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829959
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-18SE-MCL-UNV-L730-CD
Description: 18000 LUMEN OHBL SE LED LUMINAIRE WITH 70CRI, 3000K LEDS AND MEDIUM CLEAR LENS
Light Source: -
Ballast/Driver: -

Summary

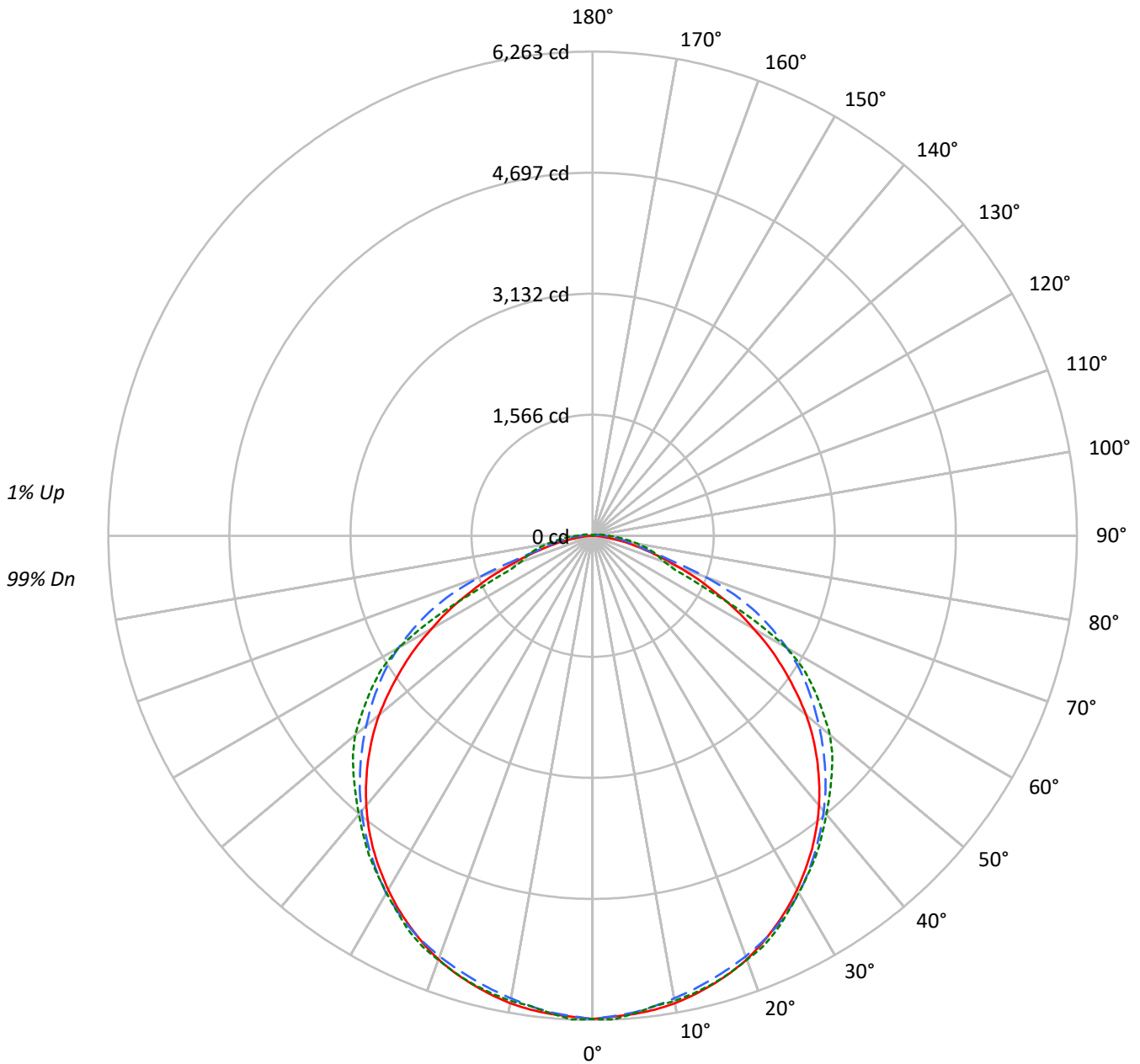
Lumens per Lamp: N/A
Luminaire Lumens: 17665.9 lumens
Efficiency: N/A
Efficacy: 168.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

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

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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	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°	10675	10675	10675
5°	10606	10515	10536
10°	10567	10352	10412
15°	10500	10228	10335
20°	10433	10148	10237
25°	10307	10067	10139
30°	10170	9943	9940
35°	10006	9749	9827
40°	9793	9549	9674
45°	9498	9317	9601
50°	9099	9054	9514
55°	8464	8793	9146
60°	7632	8415	8441
65°	6547	7721	5338
70°	5273	6015	3859
75°	3954	3560	3900
80°	2752	2947	3698
85°	1566	2675	3421



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	589.3	3.3
10°-20°	1689.9	9.6
20°-30°	2581.1	14.6
30°-40°	3131.7	17.7
40°-50°	3282.4	18.6
50°-60°	2974.3	16.8
60°-70°	1994.2	11.3
70°-80°	895.5	5.1
80°-90°	325.0	1.8
90°-100°	97.8	0.6
100°-110°	46.2	0.3
110°-120°	23.1	0.1
120°-130°	12.8	0.1
130°-140°	8.8	0.0
140°-150°	5.9	0.0
150°-160°	4.4	0.0
160°-170°	2.8	0.0
170°-180°	0.9	0.0
0°-30°	4860.4	27.5
0°-40°	7992.1	45.2
0°-60°	14248.8	80.7
0°-90°	17463.4	98.9
90°-120°	167.1	0.9
90°-150°	194.5	1.1
90°-180°	203.0	1.1
0°-180°	17665.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6250	6250	6250	6250	6250	
5°	6210	6231	6188	6207	6199	591
15°	6008	5984	5942	5994	6002	1696
25°	5582	5557	5596	5648	5631	2573
35°	4947	4959	5009	5063	5043	3092
45°	4106	4173	4250	4359	4372	3163
55°	3021	3167	3383	3518	3510	2697
65°	1773	2051	2328	1965	1604	1767
75°	698	1012	745	762	812	762
85°	120	230	296	357	374	147
90°	1	77	153	192	201	7
95°	1	48	105	127	131	1
105°	4	21	52	62	65	4
115°	7	11	26	33	35	7
125°	6	7	16	19	20	6
135°	8	9	10	14	15	6
145°	8	9	9	10	11	5
155°	9	10	10	10	9	4
165°	10	10	10	10	10	3
175°	10	10	9	8	8	1
180°	9	9	9	9	9	



TEST NUMBER: P829959

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6250.2	6250.2	6250.2	6250.2	6250.2
2.5°	6224.9	6251.1	6218.6	6253.9	6262.9
5°	6209.6	6231.3	6187.9	6206.9	6198.7
7.5°	6181.6	6188.8	6137.3	6152.6	6136.4
10°	6140.0	6136.4	6075.8	6105.6	6109.3
12.5°	6078.5	6067.7	6013.5	6058.7	6059.6
15°	6008.0	5984.5	5942.1	5994.5	6001.7
17.5°	5926.7	5896.0	5868.0	5935.7	5924.9
20°	5831.8	5795.7	5790.2	5864.3	5837.2
22.5°	5714.3	5686.3	5699.0	5769.5	5752.3
25°	5581.5	5557.1	5595.9	5647.5	5631.2
27.5°	5441.4	5426.9	5471.2	5511.0	5479.4
30°	5287.8	5279.6	5338.4	5370.9	5331.1
32.5°	5120.6	5123.3	5179.3	5223.6	5186.5
35°	4947.1	4958.8	5009.4	5062.7	5042.9
37.5°	4756.4	4782.6	4833.2	4893.7	4873.0
40°	4554.8	4592.8	4648.8	4722.0	4703.0
42.5°	4337.0	4384.9	4457.2	4538.6	4536.8
45°	4105.7	4172.6	4250.3	4358.7	4372.3
47.5°	3865.3	3940.3	4038.8	4183.4	4204.2
50°	3604.1	3698.1	3821.0	3994.5	4007.2
52.5°	3313.1	3441.4	3604.1	3770.4	3755.0
55°	3021.2	3166.7	3382.7	3518.2	3510.1
57.5°	2730.2	2893.8	3155.8	3252.5	3251.6
60°	2404.8	2611.8	2898.3	2971.5	2899.2
62.5°	2103.9	2326.2	2623.5	2570.2	2322.6
65°	1773.1	2050.6	2328.0	1964.7	1604.1
67.5°	1479.4	1768.6	1977.4	1345.7	1152.3
70°	1183.9	1502.9	1541.8	998.6	985.1
72.5°	921.8	1261.6	1063.7	854.9	898.3
75°	697.7	1012.2	744.7	761.9	811.6
77.5°	508.8	777.2	579.3	667.9	708.5
80°	349.7	550.4	472.7	561.2	589.2
82.5°	219.6	363.3	378.7	451.9	480.8
85°	120.2	230.5	295.5	357.0	374.1
87.5°	49.7	139.2	225.9	275.6	290.1
90°	0.9	76.8	152.7	191.6	200.6
92.5°	0.9	58.7	124.7	154.5	160.9
95°	0.9	47.9	104.8	127.4	131.0
97.5°	1.8	38.0	87.7	105.7	109.4
100°	2.7	31.6	73.2	88.6	91.3
102.5°	3.6	25.3	61.5	74.1	76.8
105°	3.6	20.8	51.5	62.4	65.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	6.3	12.7	30.7	38.9	40.7
115°	7.2	10.8	26.2	33.4	35.2
117.5°	7.2	9.0	22.6	28.0	29.8
120°	7.2	8.1	19.9	24.4	25.3
122.5°	7.2	7.2	17.2	21.7	22.6
125°	6.3	7.2	16.3	19.0	19.9
127.5°	7.2	7.2	14.5	17.2	18.1
130°	7.2	8.1	12.7	16.3	16.3
132.5°	8.1	9.0	11.7	15.4	15.4
135°	8.1	9.0	9.9	14.5	15.4
137.5°	9.0	9.0	9.0	13.6	14.5
140°	9.0	9.0	8.1	11.7	12.7
142.5°	8.1	9.0	8.1	10.8	11.7
145°	8.1	9.0	9.0	9.9	10.8
147.5°	9.0	9.0	9.0	9.0	9.9
150°	9.0	9.0	9.0	9.0	9.0
152.5°	9.0	9.0	9.0	9.0	9.0
155°	9.0	9.9	9.9	9.9	9.0
157.5°	9.0	9.9	9.9	9.9	9.9
160°	9.0	9.9	9.9	9.9	9.9
162.5°	9.9	9.9	9.9	9.9	9.9
165°	9.9	9.9	9.9	9.9	9.9
167.5°	9.9	10.8	9.9	9.9	9.9
170°	9.9	9.9	9.9	9.0	9.0
172.5°	9.9	9.9	9.9	9.0	9.0
175°	9.9	9.9	9.0	8.1	8.1
177.5°	10.8	9.9	9.0	8.1	7.2
180°	9.0	9.0	9.0	9.0	9.0



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	4.5	17.2	44.3	53.3	55.1
110°	5.4	14.5	37.1	45.2	47.0



(END OF REPORT)