

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: P829985

Luminaire Tested: **OHBL-18SE-N-UNV-L740-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829985
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-L740-CD
Description: 18000 LUMEN OHBL SE LED LUMINAIRE WITH 70CRI, 4000K LEDS AND NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

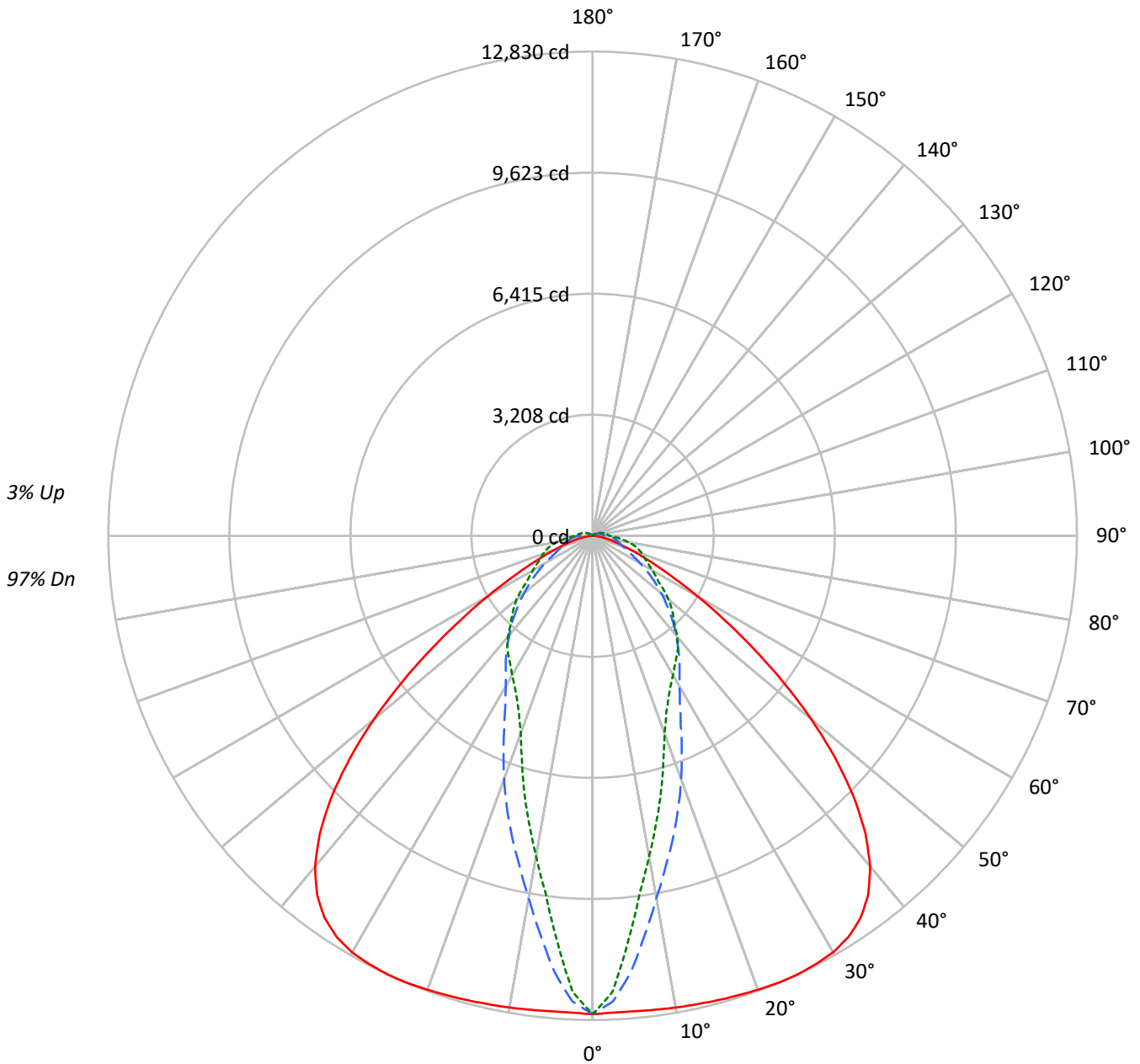
Lumens per Lamp: N/A
Luminaire Lumens: 18706.0 lumens
Efficiency: N/A
Efficacy: 178.2 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

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

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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°	21648	21648	21648
5°	21604	19714	18329
10°	21847	16606	14697
15°	22274	14202	12063
20°	22900	12008	9757
25°	23692	9939	8549
30°	24511	8563	7942
35°	25021	7804	7566
40°	24592	7049	7178
45°	22624	6370	6646
50°	19088	5628	6238
55°	14504	4929	5551
60°	10164	4228	5314
65°	6837	3641	5202
70°	4669	3417	5458
75°	3240	3524	5831
80°	2231	3903	6004
85°	1304	4881	6298



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1066.9	5.7
10°-20°	2509.8	13.4
20°-30°	3146.1	16.8
30°-40°	3338.3	17.8
40°-50°	3018.4	16.1
50°-60°	2188.5	11.7
60°-70°	1373.4	7.3
70°-80°	908.9	4.9
80°-90°	523.6	2.8
90°-100°	253.7	1.4
100°-110°	175.1	0.9
110°-120°	108.1	0.6
120°-130°	52.3	0.3
130°-140°	24.1	0.1
140°-150°	13.1	0.1
150°-160°	5.7	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	6722.8	35.9
0°-40°	10061.2	53.8
0°-60°	15268.1	81.6
0°-90°	18073.9	96.6
90°-120°	536.8	2.9
90°-150°	626.4	3.3
90°-180°	632.0	3.4
0°-180°	18706.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12674	12674	12674	12674	12674	
5°	12649	12324	11601	11063	10784	###
15°	12746	10388	8251	7338	7005	3615
25°	12830	8033	5525	4904	4748	5927
35°	12370	5340	4010	3884	3883	7690
45°	9779	3382	2906	2976	3026	7450
55°	5177	2096	1896	2057	2130	4678
65°	1852	1216	1098	1406	1563	1927
75°	572	655	737	1145	1214	637
85°	100	271	539	750	689	120
90°	0	113	312	440	444	6
95°	5	80	275	374	391	4
105°	10	53	200	265	273	10
115°	13	37	135	169	172	13
125°	14	19	69	87	86	13
135°	12	14	30	47	47	9
145°	14	16	18	28	26	9
155°	14	18	19	20	18	4
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P829985

CATALOG NUMBER: OHBL-18SE-N-UNV-L740-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12674.3	12674.3	12674.3	12674.3	12674.3
2.5°	12647.8	12575.4	12349.8	12212.3	12096.5
5°	12649.0	12324.5	11600.7	11062.7	10784.1
7.5°	12667.1	11945.7	10641.7	9856.5	9550.1
10°	12694.8	11476.5	9746.7	8909.5	8623.6
12.5°	12715.3	10948.1	8959.0	8098.9	7785.3
15°	12745.5	10388.4	8250.9	7337.8	7004.8
17.5°	12773.2	9861.3	7551.3	6597.1	6226.8
20°	12801.0	9293.1	6851.6	5868.5	5563.3
22.5°	12827.5	8693.6	6168.9	5302.8	5094.1
25°	12829.9	8032.6	5524.7	4903.5	4747.9
27.5°	12798.6	7347.4	5002.4	4569.4	4472.9
30°	12744.3	6682.8	4597.1	4328.1	4259.4
32.5°	12609.2	6004.8	4283.5	4095.3	4055.5
35°	12370.3	5340.2	4009.7	3884.2	3883.0
37.5°	11994.0	4750.3	3712.9	3691.2	3717.7
40°	11437.9	4234.0	3431.8	3489.7	3489.7
42.5°	10696.0	3785.3	3177.3	3236.4	3220.7
45°	9779.3	3382.4	2905.9	2975.9	3026.5
47.5°	8716.5	3027.7	2628.5	2763.6	2833.5
50°	7560.9	2690.0	2375.2	2547.6	2627.3
52.5°	6349.8	2377.6	2127.9	2325.7	2389.6
55°	5177.3	2096.5	1896.3	2056.7	2130.3
57.5°	4115.8	1828.7	1669.5	1821.5	1973.5
60°	3202.7	1598.3	1456.0	1673.1	1825.1
62.5°	2446.3	1393.2	1255.7	1534.4	1686.4
65°	1851.6	1215.9	1097.7	1406.5	1563.3
67.5°	1395.7	1062.7	974.7	1313.6	1466.8
70°	1048.3	914.4	875.8	1255.7	1393.2
72.5°	774.4	778.0	797.3	1205.1	1310.0
75°	571.8	655.0	737.0	1144.8	1213.5
77.5°	408.9	542.8	682.8	1072.4	1096.5
80°	283.5	442.7	626.1	977.1	956.6
82.5°	177.3	354.6	575.4	872.1	815.4
85°	100.1	271.4	539.2	750.3	688.8
87.5°	44.6	202.7	471.7	585.0	546.4
90°	0.0	113.4	312.4	440.3	443.9
92.5°	2.4	94.1	288.3	402.9	415.0
95°	4.8	79.6	275.0	373.9	390.8
97.5°	6.0	70.0	258.1	347.4	361.9
100°	7.2	62.7	237.6	319.7	331.7
102.5°	8.4	57.9	218.3	290.7	300.4
105°	9.7	53.1	200.2	265.4	272.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	12.1	41.0	150.8	190.6	196.6
115°	13.3	37.4	135.1	168.9	172.5
117.5°	14.5	32.6	118.2	148.4	149.6
120°	14.5	29.0	101.3	126.7	126.7
122.5°	14.5	24.1	84.4	104.9	103.7
125°	14.5	19.3	68.8	86.9	85.6
127.5°	13.3	15.7	55.5	72.4	71.2
130°	13.3	15.7	44.6	61.5	61.5
132.5°	12.1	14.5	36.2	53.1	53.1
135°	12.1	14.5	30.2	47.0	47.0
137.5°	12.1	15.7	25.3	41.0	41.0
140°	12.1	14.5	21.7	36.2	36.2
142.5°	13.3	14.5	19.3	31.4	31.4
145°	14.5	15.7	18.1	27.7	26.5
147.5°	14.5	16.9	18.1	24.1	22.9
150°	14.5	18.1	18.1	21.7	20.5
152.5°	14.5	18.1	18.1	20.5	19.3
155°	14.5	18.1	19.3	20.5	18.1
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°	9.7	49.5	183.4	237.6	246.1
110°	10.9	44.6	167.7	212.3	220.7



(END OF REPORT)