

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: P829949

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829949
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-A-UNV-L740-CD
Description: 18000 LUMEN OHBL SE LED LUMINAIRE WITH 70CRI, 4000K LEDS AND AISLE LENS
Light Source: -
Ballast/Driver: -

Summary

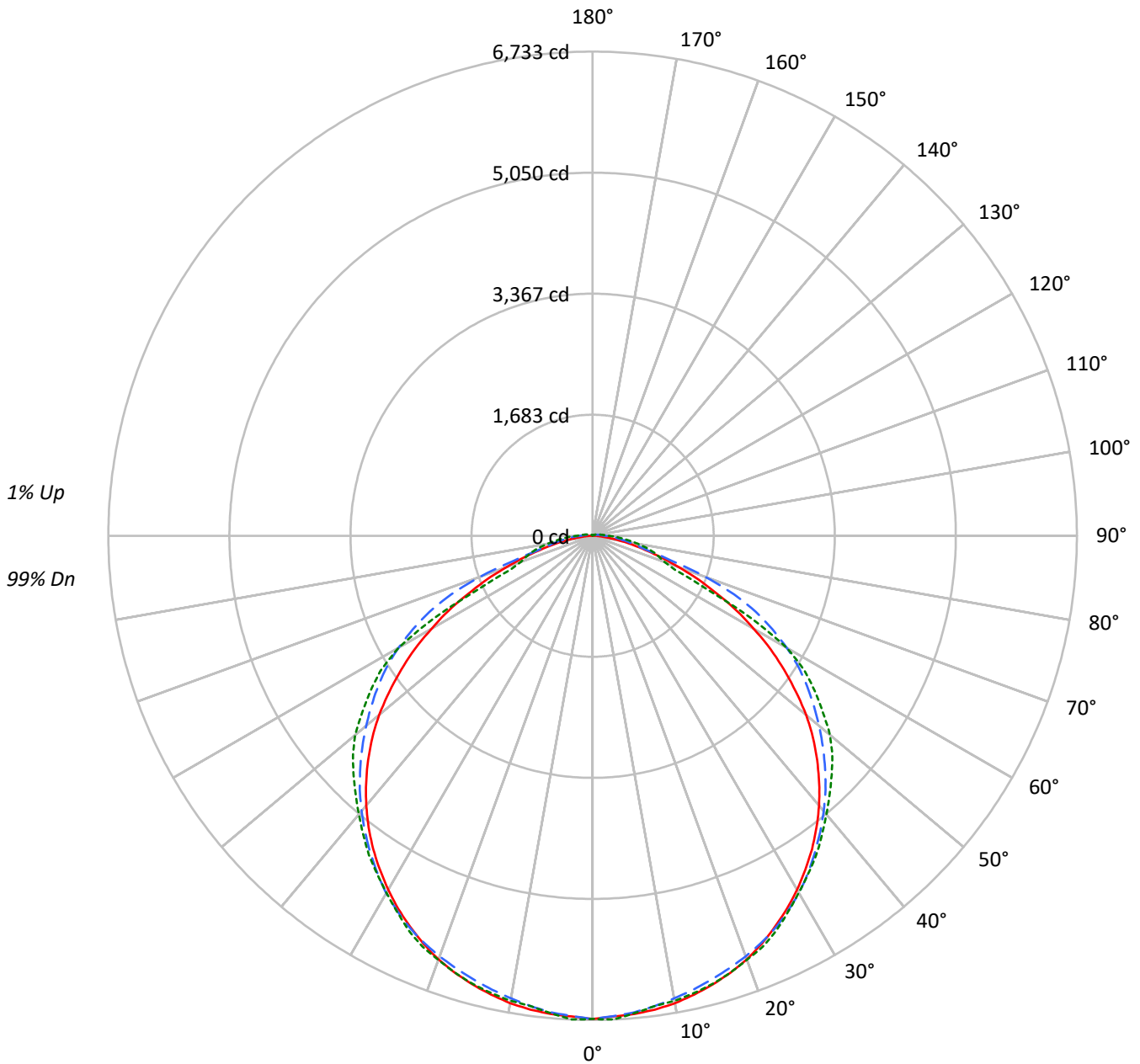
Lumens per Lamp: N/A
Luminaire Lumens: 18991.0 lumens
Efficiency: N/A
Efficacy: 180.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

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

TEST NUMBER: P829949

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

Luminous Intensity Polar Plot





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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11476	11476	11476
5°	11401	11304	11326
10°	11359	11128	11193
15°	11287	10995	11111
20°	11215	10909	11005
25°	11080	10823	10900
30°	10933	10689	10686
35°	10757	10481	10564
40°	10528	10265	10400
45°	10211	10016	10321
50°	9781	9733	10227
55°	9098	9453	9832
60°	8205	9047	9074
65°	7038	8300	5738
70°	5669	6466	4148
75°	4250	3827	4192
80°	2959	3167	3975
85°	1684	2876	3678



TEST NUMBER: P829949

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	633.5	3.3
10°-20°	1816.7	9.6
20°-30°	2774.7	14.6
30°-40°	3366.6	17.7
40°-50°	3528.5	18.6
50°-60°	3197.4	16.8
60°-70°	2143.7	11.3
70°-80°	962.6	5.1
80°-90°	349.3	1.8
90°-100°	105.2	0.6
100°-110°	49.6	0.3
110°-120°	24.9	0.1
120°-130°	13.7	0.1
130°-140°	9.4	0.0
140°-150°	6.3	0.0
150°-160°	4.7	0.0
160°-170°	3.0	0.0
170°-180°	1.0	0.0
0°-30°	5224.9	27.5
0°-40°	8591.5	45.2
0°-60°	15317.5	80.7
0°-90°	18773.2	98.9
90°-120°	179.6	0.9
90°-150°	209.1	1.1
90°-180°	218.0	1.1
0°-180°	18991.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6719	6719	6719	6719	6719	
5°	6675	6699	6652	6672	6664	635
15°	6459	6433	6388	6444	6452	1824
25°	6000	5974	6016	6071	6054	2766
35°	5318	5331	5385	5442	5421	3324
45°	4414	4486	4569	4686	4700	3400
55°	3248	3404	3636	3782	3773	2899
65°	1906	2204	2503	2112	1724	1899
75°	750	1088	800	819	872	820
85°	129	248	318	384	402	158
90°	1	83	164	206	216	8
95°	1	52	113	137	141	1
105°	4	22	55	67	70	4
115°	8	12	28	36	38	7
125°	7	8	18	20	21	7
135°	9	10	11	16	16	7
145°	9	10	10	11	12	6
155°	10	11	11	11	10	4
165°	11	11	11	11	11	3
175°	11	11	10	9	9	1
180°	10	10	10	10	10	



TEST NUMBER: P829949

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6719.0	6719.0	6719.0	6719.0	6719.0
2.5°	6691.8	6720.0	6685.0	6722.9	6732.6
5°	6675.3	6698.6	6652.0	6672.4	6663.7
7.5°	6645.2	6653.0	6597.6	6614.1	6596.6
10°	6600.5	6596.6	6531.5	6563.6	6567.5
12.5°	6534.4	6522.8	6464.5	6513.1	6514.0
15°	6458.7	6433.4	6387.7	6444.1	6451.9
17.5°	6371.2	6338.2	6308.1	6380.9	6369.3
20°	6269.2	6230.4	6224.5	6304.2	6275.0
22.5°	6142.9	6112.8	6126.4	6202.2	6183.7
25°	6000.1	5973.9	6015.7	6071.0	6053.5
27.5°	5849.5	5834.0	5881.6	5924.3	5890.3
30°	5684.4	5675.6	5738.8	5773.7	5731.0
32.5°	5504.6	5507.5	5567.8	5615.4	5575.6
35°	5318.1	5330.7	5385.1	5442.5	5421.1
37.5°	5113.1	5141.3	5195.7	5260.8	5238.4
40°	4896.5	4937.3	4997.5	5076.2	5055.8
42.5°	4662.3	4713.8	4791.5	4879.0	4877.0
45°	4413.6	4485.5	4569.1	4685.6	4700.2
47.5°	4155.2	4235.8	4341.7	4497.2	4519.5
50°	3874.4	3975.5	4107.6	4294.1	4307.7
52.5°	3561.6	3699.5	3874.4	4053.2	4036.7
55°	3247.8	3404.2	3636.4	3782.1	3773.4
57.5°	2935.0	3110.8	3392.5	3496.5	3495.5
60°	2585.2	2807.7	3115.7	3194.4	3116.6
62.5°	2261.7	2500.7	2820.3	2763.0	2496.8
65°	1906.1	2204.4	2502.6	2112.1	1724.4
67.5°	1590.4	1901.3	2125.7	1446.6	1238.7
70°	1272.7	1615.6	1657.4	1073.5	1059.0
72.5°	991.0	1356.2	1143.5	919.1	965.7
75°	750.0	1088.1	800.5	819.0	872.4
77.5°	547.0	835.5	622.7	718.0	761.7
80°	376.0	591.7	508.1	603.3	633.4
82.5°	236.1	390.6	407.1	485.8	516.8
85°	129.2	247.7	317.7	383.8	402.2
87.5°	53.4	149.6	242.9	296.3	311.9
90°	1.0	82.6	164.2	206.0	215.7
92.5°	1.0	63.1	134.1	166.1	172.9
95°	1.0	51.5	112.7	137.0	140.9
97.5°	1.9	40.8	94.2	113.7	117.6
100°	2.9	34.0	78.7	95.2	98.1
102.5°	3.9	27.2	66.1	79.7	82.6
105°	3.9	22.3	55.4	67.0	69.9



TEST NUMBER: P829949

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

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	6.8	13.6	33.0	41.8	43.7
115°	7.8	11.7	28.2	35.9	37.9
117.5°	7.8	9.7	24.3	30.1	32.1
120°	7.8	8.7	21.4	26.2	27.2
122.5°	7.8	7.8	18.5	23.3	24.3
125°	6.8	7.8	17.5	20.4	21.4
127.5°	7.8	7.8	15.5	18.5	19.4
130°	7.8	8.7	13.6	17.5	17.5
132.5°	8.7	9.7	12.6	16.5	16.5
135°	8.7	9.7	10.7	15.5	16.5
137.5°	9.7	9.7	9.7	14.6	15.5
140°	9.7	9.7	8.7	12.6	13.6
142.5°	8.7	9.7	8.7	11.7	12.6
145°	8.7	9.7	9.7	10.7	11.7
147.5°	9.7	9.7	9.7	9.7	10.7
150°	9.7	9.7	9.7	9.7	9.7
152.5°	9.7	9.7	9.7	9.7	9.7
155°	9.7	10.7	10.7	10.7	9.7
157.5°	9.7	10.7	10.7	10.7	10.7
160°	9.7	10.7	10.7	10.7	10.7
162.5°	10.7	10.7	10.7	10.7	10.7
165°	10.7	10.7	10.7	10.7	10.7
167.5°	10.7	11.7	10.7	10.7	10.7
170°	10.7	10.7	10.7	9.7	9.7
172.5°	10.7	10.7	10.7	9.7	9.7
175°	10.7	10.7	9.7	8.7	8.7
177.5°	11.7	10.7	9.7	8.7	7.8
180°	9.7	9.7	9.7	9.7	9.7



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	4.9	18.5	47.6	57.3	59.3
110°	5.8	15.5	39.8	48.6	50.5



(END OF REPORT)