

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: P829948

Luminaire Tested: **OHBL-18SE-A-UNV-L735-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829948
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-L735-CD
Description: 18000 LUMEN OHBL SE LED LUMINAIRE WITH 70CRI, 3500K LEDS AND AISLE LENS
Light Source: -
Ballast/Driver: -

Summary

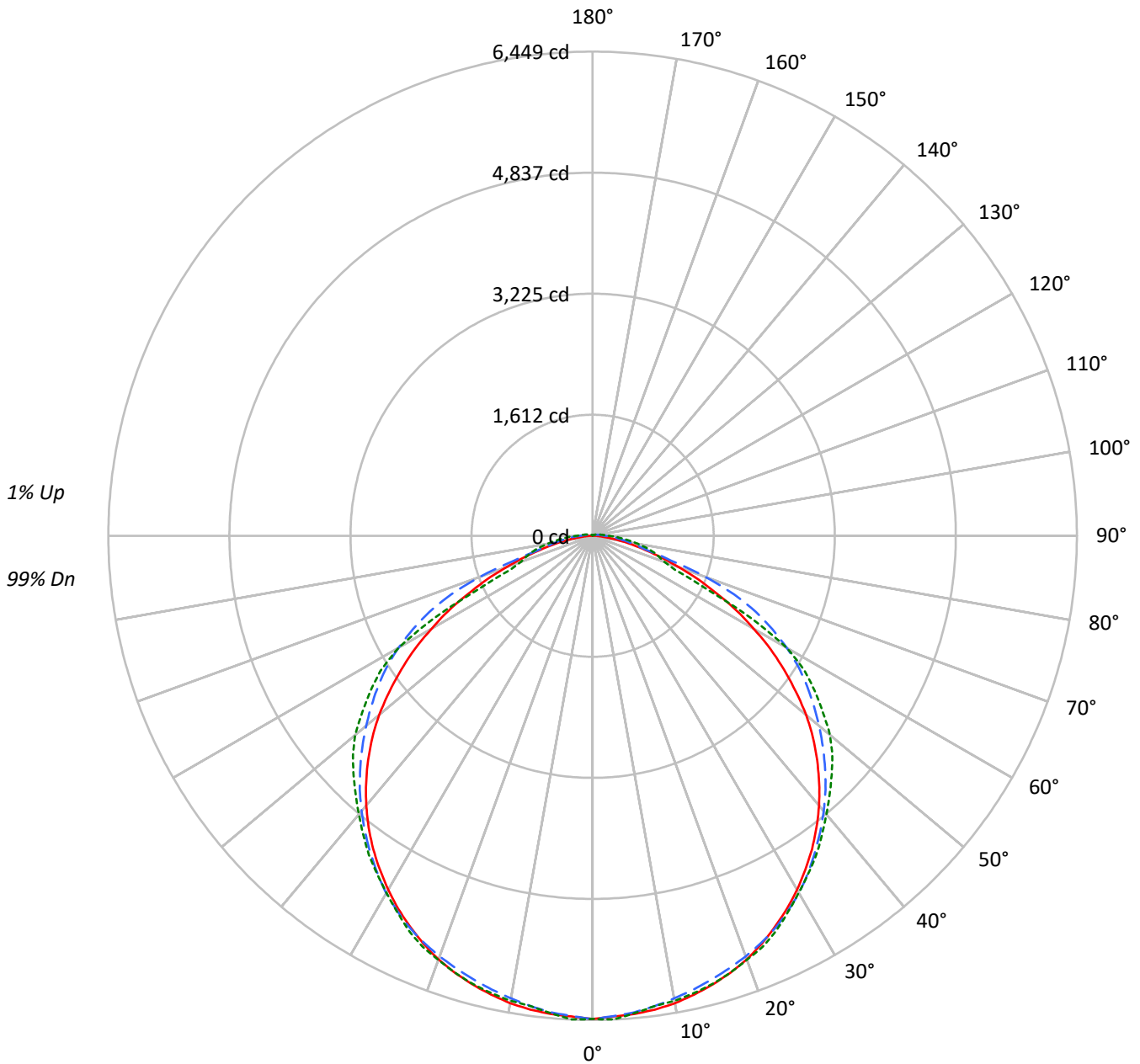
Lumens per Lamp: N/A
Luminaire Lumens: 18190.0 lumens
Efficiency: N/A
Efficacy: 173.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

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				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°	10992	10992	10992
5°	10920	10827	10848
10°	10880	10659	10721
15°	10811	10531	10642
20°	10742	10449	10541
25°	10612	10366	10440
30°	10471	10238	10235
35°	10303	10039	10118
40°	10084	9832	9961
45°	9780	9593	9886
50°	9369	9322	9796
55°	8715	9054	9417
60°	7859	8665	8692
65°	6741	7950	5496
70°	5430	6194	3973
75°	4071	3666	4015
80°	2833	3034	3808
85°	1613	2755	3522



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	606.8	3.3
10°-20°	1740.1	9.6
20°-30°	2657.6	14.6
30°-40°	3224.6	17.7
40°-50°	3379.7	18.6
50°-60°	3062.5	16.8
60°-70°	2053.3	11.3
70°-80°	922.0	5.1
80°-90°	334.6	1.8
90°-100°	100.7	0.6
100°-110°	47.5	0.3
110°-120°	23.8	0.1
120°-130°	13.1	0.1
130°-140°	9.0	0.0
140°-150°	6.1	0.0
150°-160°	4.5	0.0
160°-170°	2.9	0.0
170°-180°	0.9	0.0
0°-30°	5004.5	27.5
0°-40°	8229.2	45.2
0°-60°	14671.4	80.7
0°-90°	17981.4	98.9
90°-120°	172.1	0.9
90°-150°	200.3	1.1
90°-180°	209.0	1.1
0°-180°	18190.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6436	6436	6436	6436	6436	
5°	6394	6416	6371	6391	6383	608
15°	6186	6162	6118	6172	6180	1747
25°	5747	5722	5762	5815	5798	2649
35°	5094	5106	5158	5213	5192	3184
45°	4228	4296	4376	4488	4502	3257
55°	3111	3261	3483	3623	3614	2777
65°	1826	2111	2397	2023	1652	1819
75°	718	1042	767	784	836	785
85°	124	237	304	368	385	151
90°	1	79	157	197	207	7
95°	1	49	108	131	135	1
105°	4	21	53	64	67	4
115°	7	11	27	34	36	7
125°	6	7	17	20	20	6
135°	8	9	10	15	16	7
145°	8	9	9	10	11	6
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	



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CATALOG NUMBER: OHBL-18SE-A-UNV-L735-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6435.6	6435.6	6435.6	6435.6	6435.6
2.5°	6409.6	6436.6	6403.1	6439.4	6448.7
5°	6393.8	6416.1	6371.4	6391.0	6382.6
7.5°	6364.9	6372.4	6319.3	6335.1	6318.4
10°	6322.1	6318.4	6256.0	6286.8	6290.5
12.5°	6258.8	6247.7	6191.8	6238.4	6239.3
15°	6186.3	6162.1	6118.3	6172.3	6179.7
17.5°	6102.5	6070.9	6042.0	6111.8	6100.6
20°	6004.8	5967.6	5962.0	6038.3	6010.4
22.5°	5883.8	5855.0	5868.0	5940.6	5922.9
25°	5747.0	5721.9	5761.9	5815.0	5798.2
27.5°	5602.8	5587.9	5633.5	5674.5	5641.9
30°	5444.6	5436.2	5496.7	5530.2	5489.3
32.5°	5272.5	5275.2	5332.9	5378.5	5340.4
35°	5093.8	5105.9	5158.0	5212.9	5192.4
37.5°	4897.4	4924.4	4976.5	5038.9	5017.5
40°	4689.9	4729.0	4786.7	4862.1	4842.5
42.5°	4465.7	4515.0	4589.4	4673.2	4671.3
45°	4227.5	4296.3	4376.3	4488.0	4502.0
47.5°	3979.9	4057.2	4158.6	4307.5	4328.9
50°	3711.0	3807.8	3934.3	4113.0	4126.0
52.5°	3411.4	3543.5	3711.0	3882.2	3866.4
55°	3110.8	3260.6	3483.0	3622.6	3614.2
57.5°	2811.2	2979.6	3249.5	3349.0	3348.1
60°	2476.2	2689.3	2984.3	3059.6	2985.2
62.5°	2166.3	2395.2	2701.4	2646.5	2391.5
65°	1825.7	2111.4	2397.1	2023.0	1651.7
67.5°	1523.3	1821.1	2036.0	1385.6	1186.4
70°	1219.0	1547.5	1587.5	1028.3	1014.3
72.5°	949.2	1299.0	1095.2	880.3	925.0
75°	718.4	1042.2	766.8	784.4	835.6
77.5°	523.9	800.3	596.5	687.7	729.5
80°	360.1	566.7	486.7	577.9	606.7
82.5°	226.1	374.1	389.9	465.3	495.0
85°	123.8	237.3	304.3	367.6	385.2
87.5°	51.2	143.3	232.6	283.8	298.7
90°	0.9	79.1	157.3	197.3	206.6
92.5°	0.9	60.5	128.4	159.1	165.6
95°	0.9	49.3	107.9	131.2	134.9
97.5°	1.9	39.1	90.3	108.9	112.6
100°	2.8	32.6	75.4	91.2	94.0
102.5°	3.7	26.1	63.3	76.3	79.1
105°	3.7	21.4	53.0	64.2	67.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	6.5	13.0	31.6	40.0	41.9
115°	7.4	11.2	27.0	34.4	36.3
117.5°	7.4	9.3	23.3	28.8	30.7
120°	7.4	8.4	20.5	25.1	26.1
122.5°	7.4	7.4	17.7	22.3	23.3
125°	6.5	7.4	16.7	19.5	20.5
127.5°	7.4	7.4	14.9	17.7	18.6
130°	7.4	8.4	13.0	16.7	16.7
132.5°	8.4	9.3	12.1	15.8	15.8
135°	8.4	9.3	10.2	14.9	15.8
137.5°	9.3	9.3	9.3	14.0	14.9
140°	9.3	9.3	8.4	12.1	13.0
142.5°	8.4	9.3	8.4	11.2	12.1
145°	8.4	9.3	9.3	10.2	11.2
147.5°	9.3	9.3	9.3	9.3	10.2
150°	9.3	9.3	9.3	9.3	9.3
152.5°	9.3	9.3	9.3	9.3	9.3
155°	9.3	10.2	10.2	10.2	9.3
157.5°	9.3	10.2	10.2	10.2	10.2
160°	9.3	10.2	10.2	10.2	10.2
162.5°	10.2	10.2	10.2	10.2	10.2
165°	10.2	10.2	10.2	10.2	10.2
167.5°	10.2	11.2	10.2	10.2	10.2
170°	10.2	10.2	10.2	9.3	9.3
172.5°	10.2	10.2	10.2	9.3	9.3
175°	10.2	10.2	9.3	8.4	8.4
177.5°	11.2	10.2	9.3	8.4	7.4
180°	9.3	9.3	9.3	9.3	9.3



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	4.7	17.7	45.6	54.9	56.8
110°	5.6	14.9	38.2	46.5	48.4



(END OF REPORT)