

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: P829117

Luminaire Tested: **OHB-18SE-MFL-UNV-L940-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829117
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHB-18SE-MFL-UNV-L940-CD
Description: 18000 LUMEN OHB SE LED LUMINAIRE WITH 90CRI, 4000K LEDS AND MEDIUM FROSTED LENS
Light Source: -
Ballast/Driver: -

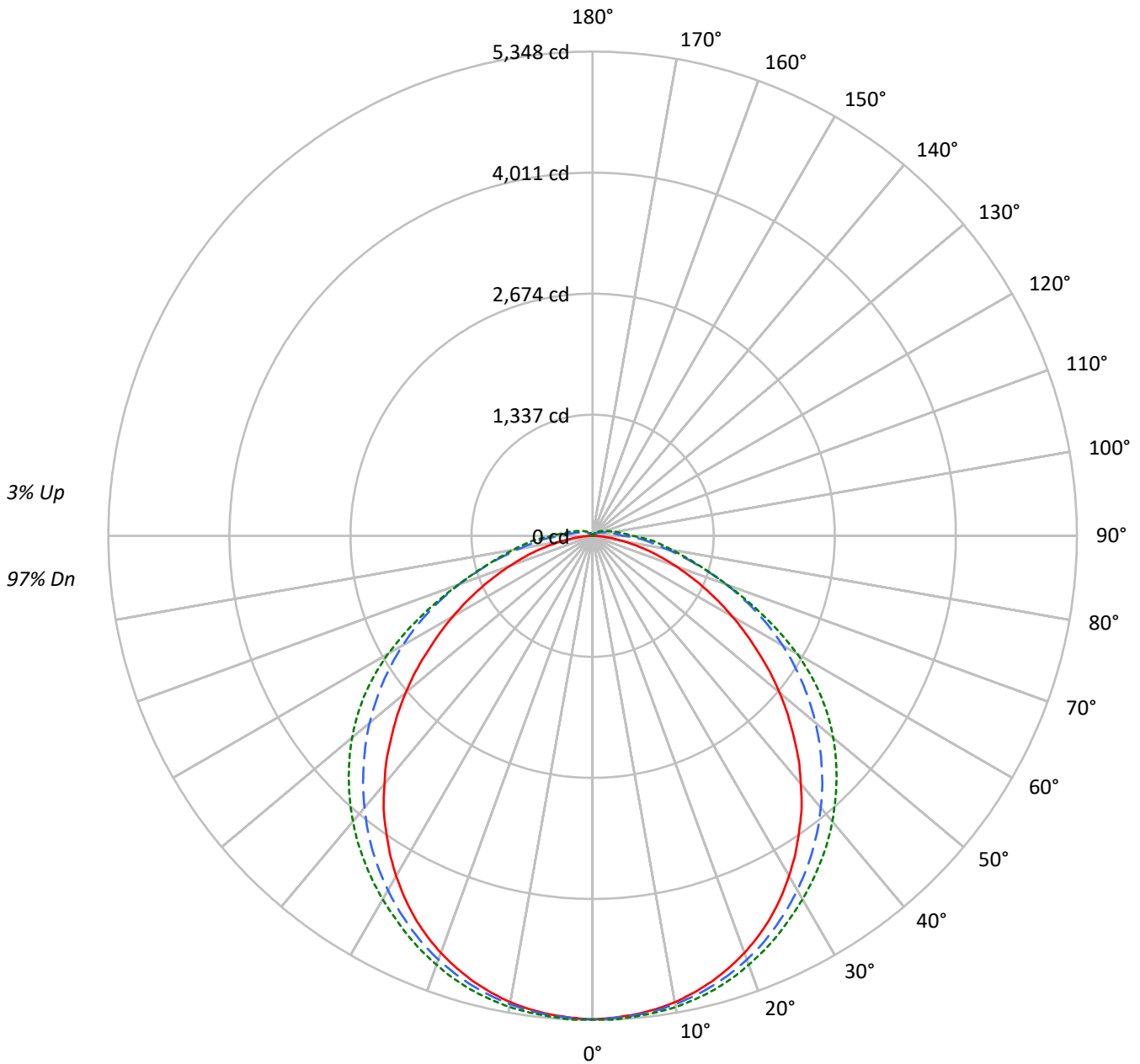
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15991.1 lumens
Efficiency: N/A
Efficacy: 148.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 1.93' x H: 0.17')
CIE Type: Direct

Input Watts (W): 107.6
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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	99	97
1	107	102	98	94	104	100	96	92	95	91	88	90	88	85	86	84	82	82	82	82	80
2	98	89	82	76	95	87	80	75	83	77	73	79	74	71	75	72	68	68	68	68	66
3	89	78	70	63	86	76	69	62	73	66	61	70	64	59	67	62	58	58	58	58	56
4	81	69	60	53	79	68	59	53	65	57	52	62	56	51	59	54	50	50	50	50	47
5	75	62	53	46	72	60	52	46	58	50	45	56	49	44	53	48	43	43	43	43	41
6	69	56	47	40	67	54	46	40	52	45	39	50	44	39	48	43	38	38	38	38	36
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	44	38	34	34	34	34	32
8	60	46	37	31	58	45	37	31	43	36	31	42	35	31	41	35	30	30	30	30	28
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	37	32	27	27	27	27	25
10	52	39	31	26	51	38	31	26	37	30	25	36	29	25	35	29	25	25	25	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17849	17849	17849
5°	17670	17626	17722
10°	17481	17418	17618
15°	17221	17180	17485
20°	16897	16901	17295
25°	16486	16565	17103
30°	15942	16205	16910
35°	15298	15824	16740
40°	14538	15390	16572
45°	13655	14919	16359
50°	12695	14438	16103
55°	11534	13859	15680
60°	10345	13182	14856
65°	9055	12332	13515
70°	7662	11264	12062
75°	6243	10026	11061
80°	4510	9015	10899
85°	2575	8883	12019



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	506.3	3.2
10°-20°	1452.5	9.1
20°-30°	2196.6	13.7
30°-40°	2637.0	16.5
40°-50°	2723.6	17.0
50°-60°	2450.4	15.3
60°-70°	1845.9	11.5
70°-80°	1114.6	7.0
80°-90°	545.1	3.4
90°-100°	229.5	1.4
100°-110°	131.0	0.8
110°-120°	76.9	0.5
120°-130°	43.5	0.3
130°-140°	22.9	0.1
140°-150°	11.1	0.1
150°-160°	4.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	4155.3	26.0
0°-40°	6792.4	42.5
0°-60°	11966.4	74.8
0°-90°	15472.0	96.8
90°-120°	437.3	2.7
90°-150°	514.9	3.2
90°-180°	519.0	3.2
0°-180°	15991.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5343	5343	5343	5343	5343	
5°	5309	5324	5317	5338	5331	504
15°	5095	5120	5143	5186	5191	1436
25°	4653	4704	4770	4845	4857	2140
35°	3978	4071	4238	4366	4392	2487
45°	3140	3298	3574	3769	3809	2424
55°	2224	2454	2827	3040	3077	1994
65°	1357	1635	2001	2100	2077	1349
75°	639	918	1159	1189	1177	682
85°	133	352	581	660	672	154
90°	0	137	332	418	436	8
95°	6	93	248	316	328	5
105°	9	54	144	188	196	9
115°	10	30	89	119	124	11
125°	10	14	54	77	81	9
135°	9	12	28	47	52	7
145°	13	12	13	24	28	8
155°	13	14	13	12	13	4
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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CATALOG NUMBER: OHB-18SE-MFL-UNV-L940-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5343.1	5343.1	5343.1	5343.1	5343.1
2.5°	5327.4	5340.5	5332.6	5349.6	5348.3
5°	5309.1	5323.5	5316.9	5337.9	5331.3
7.5°	5277.7	5293.4	5292.1	5315.6	5313.0
10°	5232.0	5249.0	5254.2	5285.6	5285.6
12.5°	5169.2	5191.4	5204.5	5242.4	5243.7
15°	5094.6	5119.5	5143.0	5186.2	5191.4
17.5°	5004.4	5035.8	5068.5	5118.2	5124.7
20°	4902.4	4937.7	4982.2	5034.5	5042.3
22.5°	4784.7	4826.6	4884.1	4945.6	4954.7
25°	4652.7	4703.7	4770.3	4844.9	4856.7
27.5°	4502.3	4561.1	4651.3	4735.0	4745.5
30°	4338.8	4408.1	4520.6	4620.0	4637.0
32.5°	4166.2	4246.0	4384.6	4495.7	4519.3
35°	3977.9	4070.7	4238.1	4366.3	4392.4
37.5°	3792.2	3894.2	4083.8	4230.3	4261.7
40°	3575.1	3702.0	3919.1	4081.2	4119.1
42.5°	3371.1	3508.5	3754.3	3930.8	3967.4
45°	3139.7	3297.9	3573.8	3768.7	3809.2
47.5°	2922.6	3093.9	3399.9	3601.3	3643.1
50°	2693.8	2882.1	3214.2	3424.8	3467.9
52.5°	2464.9	2667.6	3022.0	3240.4	3280.9
55°	2224.3	2454.5	2827.2	3040.3	3076.9
57.5°	2000.7	2243.9	2627.1	2829.8	2852.0
60°	1779.7	2032.1	2423.1	2600.9	2608.8
62.5°	1564.0	1829.4	2213.9	2355.1	2344.6
65°	1357.4	1634.6	2000.7	2100.1	2076.6
67.5°	1158.6	1445.0	1782.3	1846.4	1815.0
70°	970.3	1260.6	1570.5	1603.2	1574.4
72.5°	804.2	1085.4	1356.0	1383.5	1362.6
75°	639.4	918.0	1158.6	1188.7	1176.9
77.5°	485.1	755.8	976.8	1016.1	1018.7
80°	349.1	608.1	818.6	880.1	887.9
82.5°	230.1	472.1	686.5	765.0	776.8
85°	133.4	351.8	580.6	660.4	672.1
87.5°	57.5	253.7	466.8	538.8	553.1
90°	0.0	137.3	332.1	418.5	435.5
92.5°	3.9	113.8	285.1	363.5	377.9
95°	6.5	92.8	248.5	316.5	328.2
97.5°	7.8	78.5	215.8	275.9	287.7
100°	7.8	68.0	187.0	241.9	252.4
102.5°	7.8	60.2	163.5	211.8	221.0
105°	9.2	53.6	143.8	188.3	196.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	10.5	35.3	99.4	133.4	138.6
115°	10.5	30.1	88.9	119.0	124.2
117.5°	11.8	26.2	78.5	107.2	111.2
120°	11.8	22.2	69.3	95.5	100.7
122.5°	11.8	18.3	61.5	86.3	90.2
125°	10.5	14.4	53.6	77.2	81.1
127.5°	9.2	11.8	45.8	69.3	73.2
130°	9.2	10.5	39.2	61.5	65.4
132.5°	9.2	11.8	32.7	53.6	58.8
135°	9.2	11.8	27.5	47.1	52.3
137.5°	9.2	11.8	22.2	40.5	45.8
140°	10.5	11.8	18.3	34.0	39.2
142.5°	11.8	11.8	14.4	28.8	32.7
145°	13.1	11.8	13.1	23.5	27.5
147.5°	13.1	13.1	13.1	18.3	22.2
150°	13.1	14.4	13.1	14.4	18.3
152.5°	13.1	14.4	13.1	11.8	14.4
155°	13.1	14.4	13.1	11.8	13.1
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°	9.2	47.1	126.8	167.4	173.9
110°	9.2	41.8	112.5	149.1	155.6



(END OF REPORT)