

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: P830111

Luminaire Tested: **OHBL-24SE-MCL-UNV-L930-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830111
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-24SE-MCL-UNV-L930-CD
Description: 24000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 3000K LEDS AND MEDIUM CLEAR LENS
Light Source: -
Ballast/Driver: -

Summary

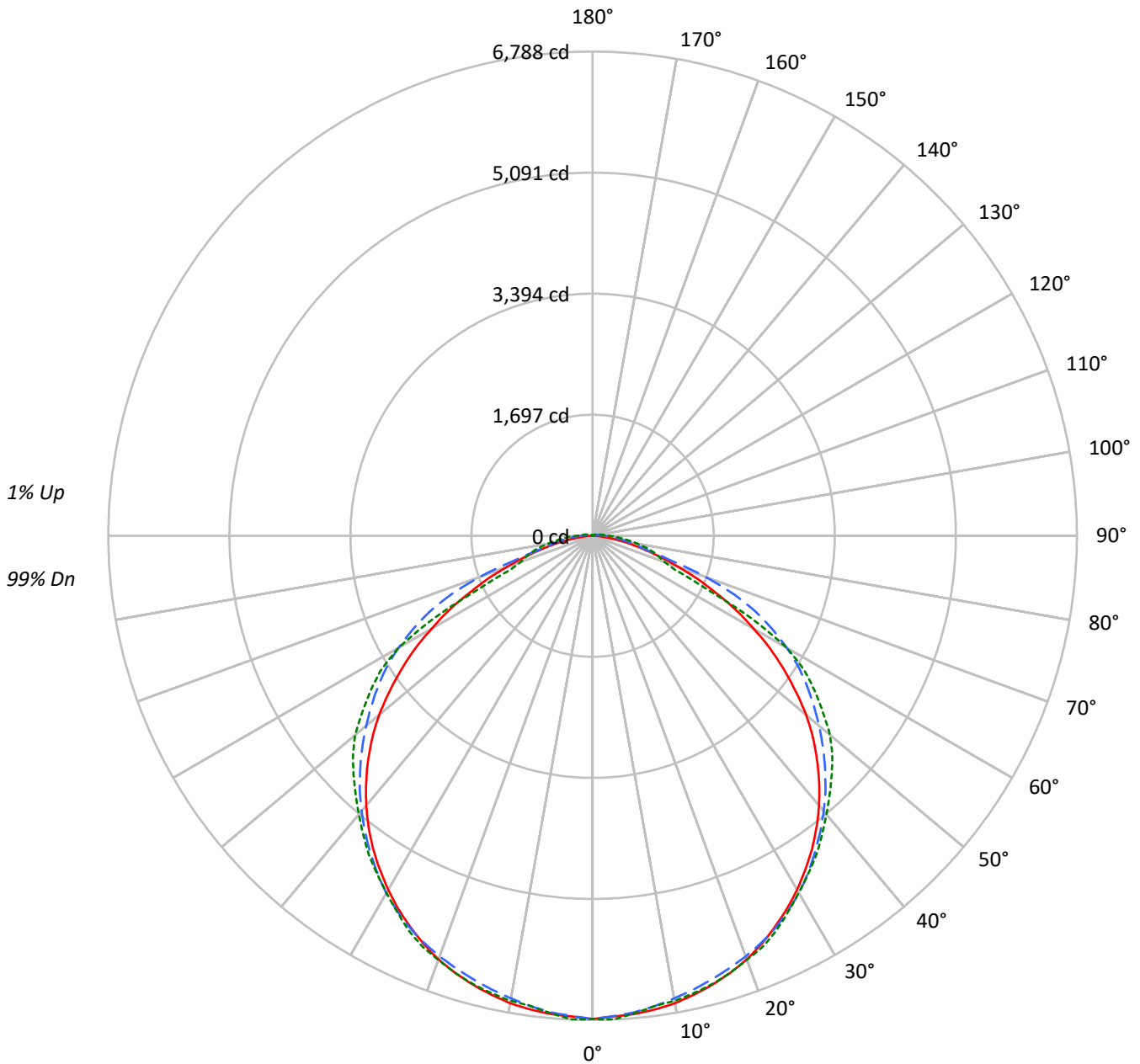
Lumens per Lamp: N/A
Luminaire Lumens: 19146.0 lumens
Efficiency: N/A
Efficacy: 138.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 138
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°	11570	11570	11570
5°	11494	11396	11418
10°	11452	11219	11284
15°	11379	11085	11201
20°	11307	10998	11095
25°	11170	10911	10989
30°	11022	10776	10773
35°	10844	10566	10650
40°	10614	10349	10485
45°	10294	10097	10405
50°	9861	9812	10311
55°	9173	9530	9912
60°	8271	9120	9148
65°	7096	8368	5785
70°	5715	6519	4182
75°	4285	3859	4226
80°	2982	3193	4008
85°	1698	2900	3708



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	638.7	3.3
10°-20°	1831.5	9.6
20°-30°	2797.3	14.6
30°-40°	3394.1	17.7
40°-50°	3557.3	18.6
50°-60°	3223.5	16.8
60°-70°	2161.2	11.3
70°-80°	970.5	5.1
80°-90°	352.2	1.8
90°-100°	106.0	0.6
100°-110°	50.0	0.3
110°-120°	25.1	0.1
120°-130°	13.8	0.1
130°-140°	9.5	0.0
140°-150°	6.4	0.0
150°-160°	4.8	0.0
160°-170°	3.1	0.0
170°-180°	1.0	0.0
0°-30°	5267.6	27.5
0°-40°	8661.7	45.2
0°-60°	15442.5	80.7
0°-90°	18926.4	98.9
90°-120°	181.1	0.9
90°-150°	210.8	1.1
90°-180°	220.0	1.1
0°-180°	19146.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6774	6774	6774	6774	6774	
5°	6730	6753	6706	6727	6718	640
15°	6511	6486	6440	6497	6504	1838
25°	6049	6023	6065	6121	6103	2788
35°	5362	5374	5429	5487	5465	3351
45°	4450	4522	4606	4724	4739	3428
55°	3274	3432	3666	3813	3804	2923
65°	1922	2222	2523	2129	1738	1915
75°	756	1097	807	826	880	826
85°	130	250	320	387	406	159
90°	1	83	166	208	217	8
95°	1	52	114	138	142	1
105°	4	22	56	68	70	5
115°	8	12	28	36	38	7
125°	7	8	18	21	22	7
135°	9	10	11	16	17	7
145°	9	10	10	11	12	6
155°	10	11	11	11	10	5
165°	11	11	11	11	11	3
175°	11	11	10	9	9	1
180°	10	10	10	10	10	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6773.9	6773.9	6773.9	6773.9	6773.9
2.5°	6746.4	6774.9	6739.6	6777.8	6787.6
5°	6729.8	6753.3	6706.3	6726.9	6718.0
7.5°	6699.4	6707.3	6651.4	6668.1	6650.5
10°	6654.4	6650.5	6584.8	6617.2	6621.1
12.5°	6587.8	6576.0	6517.3	6566.2	6567.2
15°	6511.4	6485.9	6439.9	6496.7	6504.5
17.5°	6423.2	6389.9	6359.6	6433.0	6421.3
20°	6320.4	6281.2	6275.3	6355.6	6326.3
22.5°	6193.1	6162.7	6176.4	6252.8	6234.2
25°	6049.1	6022.6	6064.7	6120.6	6102.9
27.5°	5897.3	5881.6	5929.6	5972.7	5938.4
30°	5730.8	5721.9	5785.6	5820.9	5777.8
32.5°	5549.6	5552.5	5613.2	5661.2	5621.1
35°	5361.5	5374.2	5429.1	5486.9	5465.3
37.5°	5154.8	5183.2	5238.1	5303.7	5281.2
40°	4936.4	4977.6	5038.3	5117.6	5097.1
42.5°	4700.4	4752.3	4830.6	4918.8	4916.8
45°	4449.6	4522.1	4606.3	4723.9	4738.6
47.5°	4189.1	4270.4	4377.2	4533.9	4556.4
50°	3906.0	4007.9	4141.1	4329.2	4342.9
52.5°	3590.7	3729.7	3906.0	4086.3	4069.6
55°	3274.3	3432.0	3666.1	3813.0	3804.2
57.5°	2958.9	3136.2	3420.2	3525.0	3524.1
60°	2606.3	2830.6	3141.1	3220.4	3142.1
62.5°	2280.2	2521.1	2843.3	2785.6	2517.2
65°	1921.7	2222.4	2523.1	2129.3	1738.5
67.5°	1603.4	1916.8	2143.0	1458.4	1248.8
70°	1283.1	1628.8	1670.9	1082.3	1067.6
72.5°	999.0	1367.3	1152.8	926.6	973.6
75°	756.1	1097.0	807.1	825.7	879.5
77.5°	551.4	842.3	627.8	723.8	767.9
80°	379.0	596.5	512.3	608.2	638.6
82.5°	238.0	393.7	410.4	489.7	521.1
85°	130.3	249.8	320.3	386.9	405.5
87.5°	53.9	150.8	244.9	298.7	314.4
90°	1.0	83.3	165.5	207.6	217.4
92.5°	1.0	63.7	135.2	167.5	174.3
95°	1.0	51.9	113.6	138.1	142.0
97.5°	2.0	41.1	95.0	114.6	118.5
100°	2.9	34.3	79.3	96.0	98.9
102.5°	3.9	27.4	66.6	80.3	83.3
105°	3.9	22.5	55.8	67.6	70.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	6.9	13.7	33.3	42.1	44.1
115°	7.8	11.8	28.4	36.2	38.2
117.5°	7.8	9.8	24.5	30.4	32.3
120°	7.8	8.8	21.5	26.4	27.4
122.5°	7.8	7.8	18.6	23.5	24.5
125°	6.9	7.8	17.6	20.6	21.5
127.5°	7.8	7.8	15.7	18.6	19.6
130°	7.8	8.8	13.7	17.6	17.6
132.5°	8.8	9.8	12.7	16.7	16.7
135°	8.8	9.8	10.8	15.7	16.7
137.5°	9.8	9.8	9.8	14.7	15.7
140°	9.8	9.8	8.8	12.7	13.7
142.5°	8.8	9.8	8.8	11.8	12.7
145°	8.8	9.8	9.8	10.8	11.8
147.5°	9.8	9.8	9.8	9.8	10.8
150°	9.8	9.8	9.8	9.8	9.8
152.5°	9.8	9.8	9.8	9.8	9.8
155°	9.8	10.8	10.8	10.8	9.8
157.5°	9.8	10.8	10.8	10.8	10.8
160°	9.8	10.8	10.8	10.8	10.8
162.5°	10.8	10.8	10.8	10.8	10.8
165°	10.8	10.8	10.8	10.8	10.8
167.5°	10.8	11.8	10.8	10.8	10.8
170°	10.8	10.8	10.8	9.8	9.8
172.5°	10.8	10.8	10.8	9.8	9.8
175°	10.8	10.8	9.8	8.8	8.8
177.5°	11.8	10.8	9.8	8.8	7.8
180°	9.8	9.8	9.8	9.8	9.8



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	4.9	18.6	48.0	57.8	59.7
110°	5.9	15.7	40.2	49.0	50.9



(END OF REPORT)