

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: P830135

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830135
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-24SE-N-UNV-L930-CD
Description: 24000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 3000K LEDS AND NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

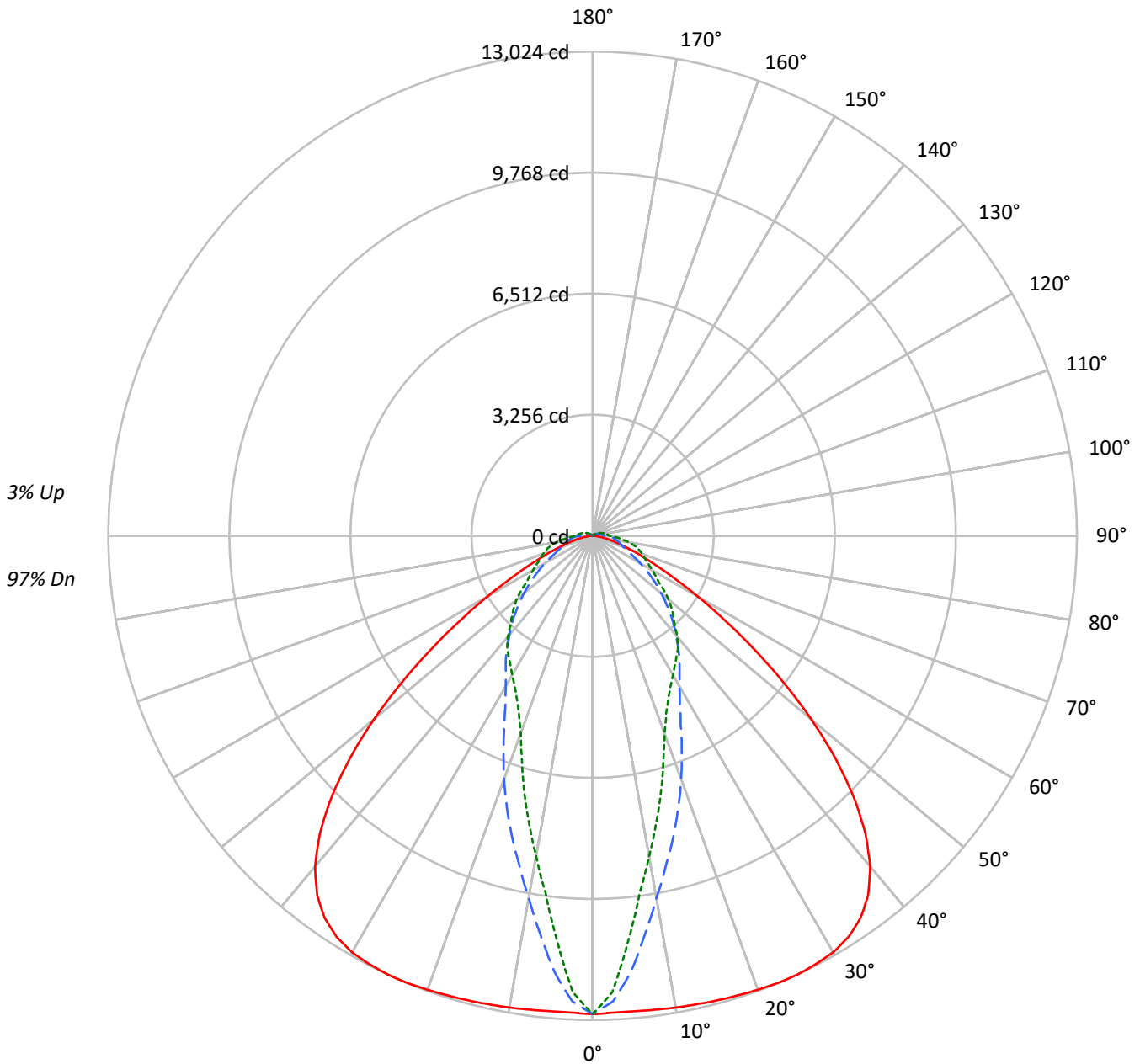
Lumens per Lamp: N/A
Luminaire Lumens: 18989.0 lumens
Efficiency: N/A
Efficacy: 137.6 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 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				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	109	104	100	97	106	102	98	95	97	94	91	92	90	88	88	86	85	85	85	85	82
2	100	93	86	81	97	90	85	80	86	82	78	83	79	75	79	76	73	73	73	73	71
3	92	83	75	69	90	81	74	69	78	72	67	74	70	65	72	67	64	64	64	64	62
4	85	74	66	60	83	73	66	60	70	64	59	67	62	57	65	60	56	56	56	56	54
5	79	67	59	53	77	66	59	53	64	57	52	62	56	51	59	54	50	50	50	50	48
6	74	62	53	47	72	60	53	47	58	52	46	56	50	46	55	49	45	45	45	45	43
7	69	56	48	43	67	55	48	42	54	47	42	52	46	41	50	45	41	41	41	41	39
8	65	52	44	39	63	51	44	39	50	43	38	48	42	38	47	41	37	37	37	37	35
9	61	48	41	35	59	47	40	35	46	40	35	45	39	35	44	38	34	34	34	34	32
10	57	45	37	33	56	44	37	32	43	37	32	42	36	32	41	35	32	32	32	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	21975	21975	21975
5°	21930	20012	18606
10°	22178	16857	14919
15°	22611	14417	12245
20°	23246	12190	9904
25°	24050	10090	8678
30°	24881	8692	8062
35°	25399	7922	7681
40°	24964	7156	7287
45°	22966	6466	6746
50°	19376	5713	6332
55°	14723	5004	5635
60°	10318	4291	5394
65°	6940	3696	5281
70°	4740	3468	5540
75°	3289	3577	5920
80°	2265	3961	6094
85°	1324	4956	6393



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1083.1	5.7
10°-20°	2547.8	13.4
20°-30°	3193.7	16.8
30°-40°	3388.8	17.8
40°-50°	3064.1	16.1
50°-60°	2221.6	11.7
60°-70°	1394.2	7.3
70°-80°	922.6	4.9
80°-90°	531.5	2.8
90°-100°	257.5	1.4
100°-110°	177.7	0.9
110°-120°	109.7	0.6
120°-130°	53.1	0.3
130°-140°	24.4	0.1
140°-150°	13.3	0.1
150°-160°	5.8	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
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0°-30°	6824.5	35.9
0°-40°	10213.4	53.8
0°-60°	15499.1	81.6
0°-90°	18347.4	96.6
90°-120°	544.9	2.9
90°-150°	635.8	3.3
90°-180°	642.0	3.4
0°-180°	18989.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12866	12866	12866	12866	12866	
5°	12840	12511	11776	11230	10947	###
15°	12938	10546	8376	7449	7111	3669
25°	13024	8154	5608	4978	4820	6017
35°	12558	5421	4070	3943	3942	7806
45°	9927	3434	2950	3021	3072	7562
55°	5256	2128	1925	2088	2162	4749
65°	1880	1234	1114	1428	1587	1956
75°	580	665	748	1162	1232	647
85°	102	276	547	762	699	122
90°	0	115	317	447	451	7
95°	5	81	279	380	397	4
105°	10	54	203	269	277	10
115°	14	38	137	171	175	13
125°	15	20	70	88	87	13
135°	12	15	31	48	48	10
145°	15	16	18	28	27	9
155°	15	18	20	21	18	5
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: OHBL-24SE-N-UNV-L930-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12866.1	12866.1	12866.1	12866.1	12866.1
2.5°	12839.1	12765.6	12536.7	12397.1	12279.5
5°	12840.3	12510.9	11776.2	11230.1	10947.2
7.5°	12858.7	12126.4	10802.7	10005.6	9694.5
10°	12886.9	11650.1	9894.1	9044.3	8754.1
12.5°	12907.7	11113.8	9094.5	8221.4	7903.1
15°	12938.3	10545.6	8375.7	7448.8	7110.8
17.5°	12966.5	10010.5	7665.5	6696.9	6321.0
20°	12994.6	9433.7	6955.3	5957.3	5647.5
22.5°	13021.6	8825.1	6262.2	5383.0	5171.2
25°	13024.0	8154.1	5608.3	4977.7	4819.7
27.5°	12992.2	7458.6	5078.1	4638.5	4540.5
30°	12937.1	6783.9	4666.7	4393.6	4323.8
32.5°	12799.9	6095.7	4348.3	4157.3	4116.8
35°	12557.5	5421.0	4070.3	3943.0	3941.7
37.5°	12175.4	4822.2	3769.1	3747.0	3774.0
40°	11610.9	4298.1	3483.8	3542.5	3542.5
42.5°	10857.8	3842.6	3225.4	3285.4	3269.5
45°	9927.2	3433.6	2949.9	3020.9	3072.3
47.5°	8848.4	3073.6	2668.2	2805.4	2876.4
50°	7675.3	2730.7	2411.1	2586.2	2667.0
52.5°	6445.9	2413.5	2160.1	2360.9	2425.8
55°	5255.7	2128.2	1924.9	2087.8	2162.5
57.5°	4178.1	1856.4	1694.7	1849.0	2003.3
60°	3251.1	1622.5	1478.0	1698.4	1852.7
62.5°	2483.3	1414.3	1274.7	1557.6	1711.9
65°	1879.6	1234.3	1114.3	1427.8	1587.0
67.5°	1416.8	1078.8	989.4	1333.5	1489.0
70°	1064.1	928.2	889.0	1274.7	1414.3
72.5°	786.1	789.8	809.4	1223.3	1329.8
75°	580.4	664.9	748.2	1162.1	1231.9
77.5°	415.1	551.0	693.1	1088.6	1113.1
80°	287.8	449.4	635.5	991.9	971.0
82.5°	180.0	360.0	584.1	885.3	827.8
85°	101.6	275.5	547.4	761.7	699.2
87.5°	45.3	205.7	478.8	593.9	554.7
90°	0.0	115.1	317.2	447.0	450.6
92.5°	2.4	95.5	292.7	409.0	421.2
95°	4.9	80.8	279.2	379.6	396.7
97.5°	6.1	71.0	262.0	352.7	367.4
100°	7.3	63.7	241.2	324.5	336.7
102.5°	8.6	58.8	221.6	295.1	304.9
105°	9.8	53.9	203.3	269.4	276.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	12.2	41.6	153.1	193.5	199.6
115°	13.5	38.0	137.1	171.4	175.1
117.5°	14.7	33.1	120.0	150.6	151.8
120°	14.7	29.4	102.9	128.6	128.6
122.5°	14.7	24.5	85.7	106.5	105.3
125°	14.7	19.6	69.8	88.2	86.9
127.5°	13.5	15.9	56.3	73.5	72.2
130°	13.5	15.9	45.3	62.5	62.5
132.5°	12.2	14.7	36.7	53.9	53.9
135°	12.2	14.7	30.6	47.8	47.8
137.5°	12.2	15.9	25.7	41.6	41.6
140°	12.2	14.7	22.0	36.7	36.7
142.5°	13.5	14.7	19.6	31.8	31.8
145°	14.7	15.9	18.4	28.2	26.9
147.5°	14.7	17.1	18.4	24.5	23.3
150°	14.7	18.4	18.4	22.0	20.8
152.5°	14.7	18.4	18.4	20.8	19.6
155°	14.7	18.4	19.6	20.8	18.4
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°	9.8	50.2	186.1	241.2	249.8
110°	11.0	45.3	170.2	215.5	224.1



(END OF REPORT)