

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: P829703

Luminaire Tested: **OHBL-100SE-N-UNV-L930-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829703
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-100SE-N-UNV-L930-CD
Description: 100000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 3000K LEDS AND NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

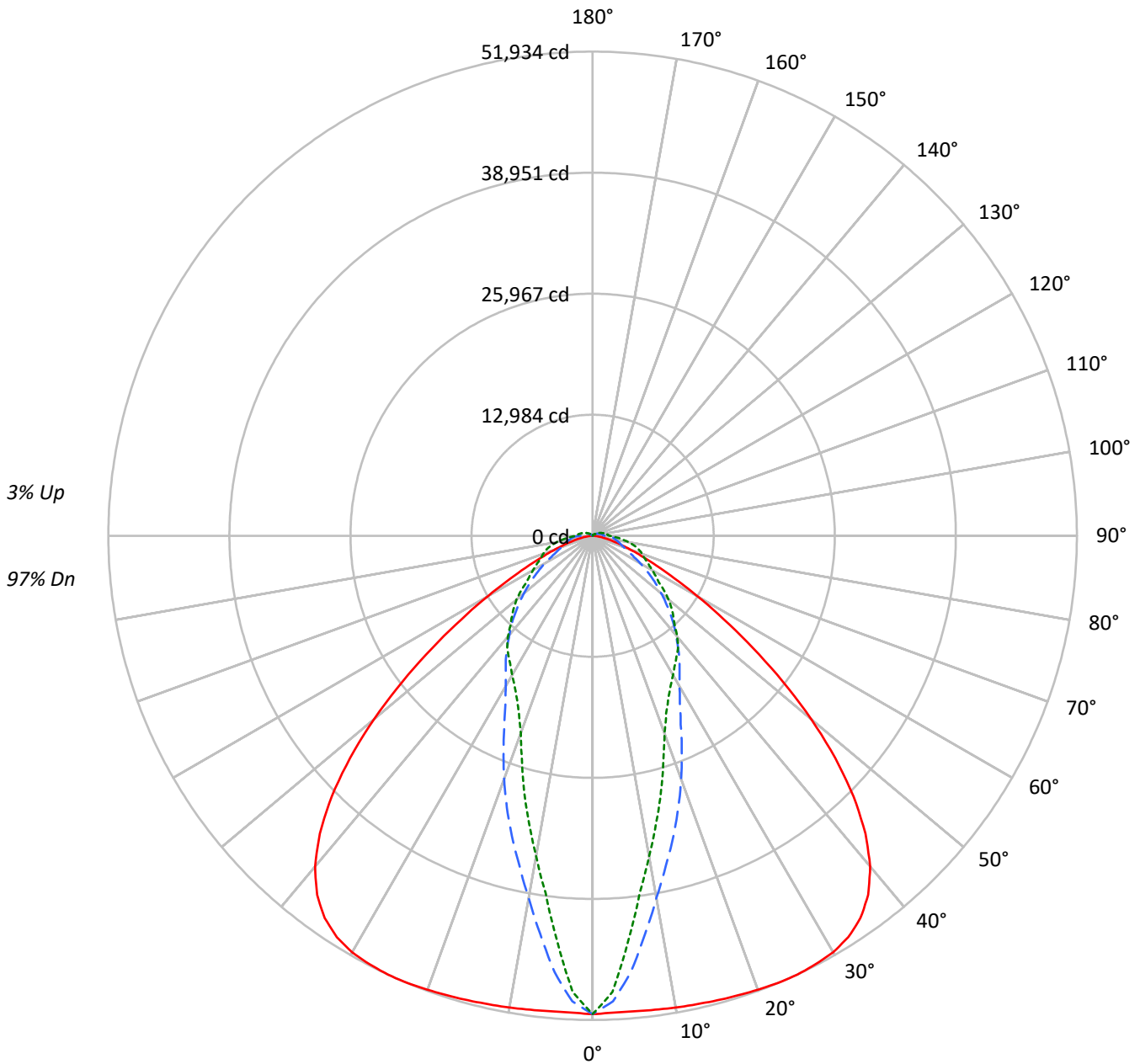
Lumens per Lamp: N/A
Luminaire Lumens: 75719.0 lumens
Efficiency: N/A
Efficacy: 128.3 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 590.1
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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	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	82																	
2	100	93	86	81	97	90	85	80	86	82	78	83	79	75	79	76	73	73	73	71																	
3	92	83	75	69	90	81	74	69	78	72	67	74	70	65	72	67	64	64	64	62																	
4	85	74	66	60	83	73	66	60	70	64	59	67	62	57	65	60	56	56	56	54																	
5	79	67	59	53	77	66	59	53	64	57	52	62	56	51	59	54	50	50	50	48																	
6	74	62	53	47	72	60	53	47	58	52	46	56	50	46	55	49	45	45	45	43																	
7	69	56	48	43	67	55	48	42	54	47	42	52	46	41	50	45	41	41	41	39																	
8	65	52	44	39	63	51	44	39	50	43	38	48	42	38	47	41	37	37	37	35																	
9	61	48	41	35	59	47	40	35	46	40	35	45	39	35	44	38	34	34	34	32																	
10	57	45	37	33	56	44	37	32	43	37	32	42	36	32	41	35	32	32	32	30																	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	81136	81136	81136
5°	80970	73921	68742
10°	81884	62295	55156
15°	83483	53301	45300
20°	85828	45090	36664
25°	88797	37340	32148
30°	91866	32185	29887
35°	93778	29349	28497
40°	92173	26527	27060
45°	84795	23989	25077
50°	71541	21211	23564
55°	54360	18597	20998
60°	38095	15968	20137
65°	25625	13773	19757
70°	17500	12952	20788
75°	12144	13397	22305
80°	8360	14908	23121
85°	4890	18816	24576



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4318.7	5.7
10°-20°	10159.5	13.4
20°-30°	12734.8	16.8
30°-40°	13513.1	17.8
40°-50°	12217.9	16.1
50°-60°	8858.8	11.7
60°-70°	5559.3	7.3
70°-80°	3679.0	4.9
80°-90°	2119.5	2.8
90°-100°	1026.8	1.4
100°-110°	708.7	0.9
110°-120°	437.3	0.6
120°-130°	211.8	0.3
130°-140°	97.4	0.1
140°-150°	53.2	0.1
150°-160°	23.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
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0°-30°	27212.9	35.9
0°-40°	40726.0	53.8
0°-60°	61802.7	81.6
0°-90°	73160.5	96.6
90°-120°	2172.9	2.9
90°-150°	2535.4	3.3
90°-180°	2558.0	3.4
0°-180°	75719.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	51304	51304	51304	51304	51304	
5°	51201	49888	46958	44780	43652	###
15°	51592	42051	33398	29702	28354	14631
25°	51934	32515	22363	19849	19219	23992
35°	50073	21616	16230	15723	15718	31128
45°	39585	13691	11763	12046	12251	30156
55°	20957	8486	7676	8325	8623	18935
65°	7495	4922	4443	5693	6328	7799
75°	2314	2651	2983	4634	4912	2580
85°	405	1099	2183	3037	2788	486
90°	0	459	1265	1782	1797	26
95°	20	322	1113	1514	1582	17
105°	39	215	810	1074	1104	39
115°	54	151	547	684	698	53
125°	59	78	278	352	347	51
135°	49	59	122	190	190	38
145°	59	64	73	112	107	35
155°	59	73	78	83	73	18
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	51303.7	51303.7	51303.7	51303.7	51303.7
2.5°	51196.2	50903.3	49990.2	49433.5	48964.8
5°	51201.1	49887.6	46958.0	44780.2	43652.3
7.5°	51274.4	48354.4	43076.1	39897.4	38657.2
10°	51386.7	46455.0	39453.1	36064.4	34907.2
12.5°	51469.7	44316.4	36264.6	32783.2	31513.6
15°	51591.7	42050.7	33398.4	29702.1	28354.5
17.5°	51704.1	39917.0	30566.4	26704.1	25205.1
20°	51816.4	37617.2	27734.3	23754.9	22519.5
22.5°	51923.8	35190.4	24970.7	21464.8	20620.1
25°	51933.5	32514.6	22363.3	19848.6	19218.7
27.5°	51806.6	29741.2	20249.0	18496.1	18105.5
30°	51586.9	27050.8	18608.4	17519.5	17241.2
32.5°	51040.0	24306.6	17338.9	16577.1	16416.0
35°	50073.2	21616.2	16230.5	15722.6	15717.8
37.5°	48549.8	19228.5	15029.3	14941.4	15048.8
40°	46298.8	17138.7	13891.6	14126.0	14126.0
42.5°	43295.9	15322.3	12861.3	13100.6	13037.1
45°	39584.9	13691.4	11762.7	12045.9	12251.0
47.5°	35283.2	12255.8	10639.6	11186.5	11469.7
50°	30605.4	10888.7	9614.2	10312.5	10634.8
52.5°	25703.1	9624.0	8613.3	9414.1	9672.8
55°	20957.0	8486.3	7675.8	8325.2	8623.0
57.5°	16660.1	7402.3	6757.8	7373.0	7988.3
60°	12963.9	6469.7	5893.5	6772.5	7387.7
62.5°	9902.3	5639.6	5083.0	6210.9	6826.2
65°	7495.1	4921.9	4443.4	5693.4	6328.1
67.5°	5649.4	4301.8	3945.3	5317.4	5937.5
70°	4243.2	3701.2	3544.9	5083.0	5639.6
72.5°	3134.8	3149.4	3227.5	4877.9	5302.7
75°	2314.5	2651.4	2983.4	4633.8	4912.1
77.5°	1655.3	2197.3	2763.7	4340.8	4438.5
80°	1147.5	1792.0	2534.2	3955.1	3872.1
82.5°	717.8	1435.5	2329.1	3530.3	3300.8
85°	405.3	1098.6	2182.6	3037.1	2788.1
87.5°	180.7	820.3	1909.2	2368.2	2211.9
90°	0.0	459.0	1264.6	1782.2	1796.9
92.5°	9.8	380.9	1167.0	1630.9	1679.7
95°	19.5	322.3	1113.3	1513.7	1582.0
97.5°	24.4	283.2	1044.9	1406.2	1464.8
100°	29.3	253.9	961.9	1293.9	1342.8
102.5°	34.2	234.4	883.8	1176.8	1215.8
105°	39.1	214.8	810.5	1074.2	1103.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	48.8	166.0	610.4	771.5	795.9
115°	53.7	151.4	546.9	683.6	698.2
117.5°	58.6	131.8	478.5	600.6	605.5
120°	58.6	117.2	410.2	512.7	512.7
122.5°	58.6	97.7	341.8	424.8	419.9
125°	58.6	78.1	278.3	351.6	346.7
127.5°	53.7	63.5	224.6	293.0	288.1
130°	53.7	63.5	180.7	249.0	249.0
132.5°	48.8	58.6	146.5	214.8	214.8
135°	48.8	58.6	122.1	190.4	190.4
137.5°	48.8	63.5	102.5	166.0	166.0
140°	48.8	58.6	87.9	146.5	146.5
142.5°	53.7	58.6	78.1	127.0	127.0
145°	58.6	63.5	73.2	112.3	107.4
147.5°	58.6	68.4	73.2	97.7	92.8
150°	58.6	73.2	73.2	87.9	83.0
152.5°	58.6	73.2	73.2	83.0	78.1
155°	58.6	73.2	78.1	83.0	73.2
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°	39.1	200.2	742.2	961.9	996.1
110°	43.9	180.7	678.7	859.4	893.6



(END OF REPORT)