

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: P829704

Luminaire Tested: **OHBL-100SE-N-UNV-L935-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829704
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-L935-CD
Description: 100000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 3500K LEDS AND NARROW LENS
Light Source: -
Ballast/Driver: -

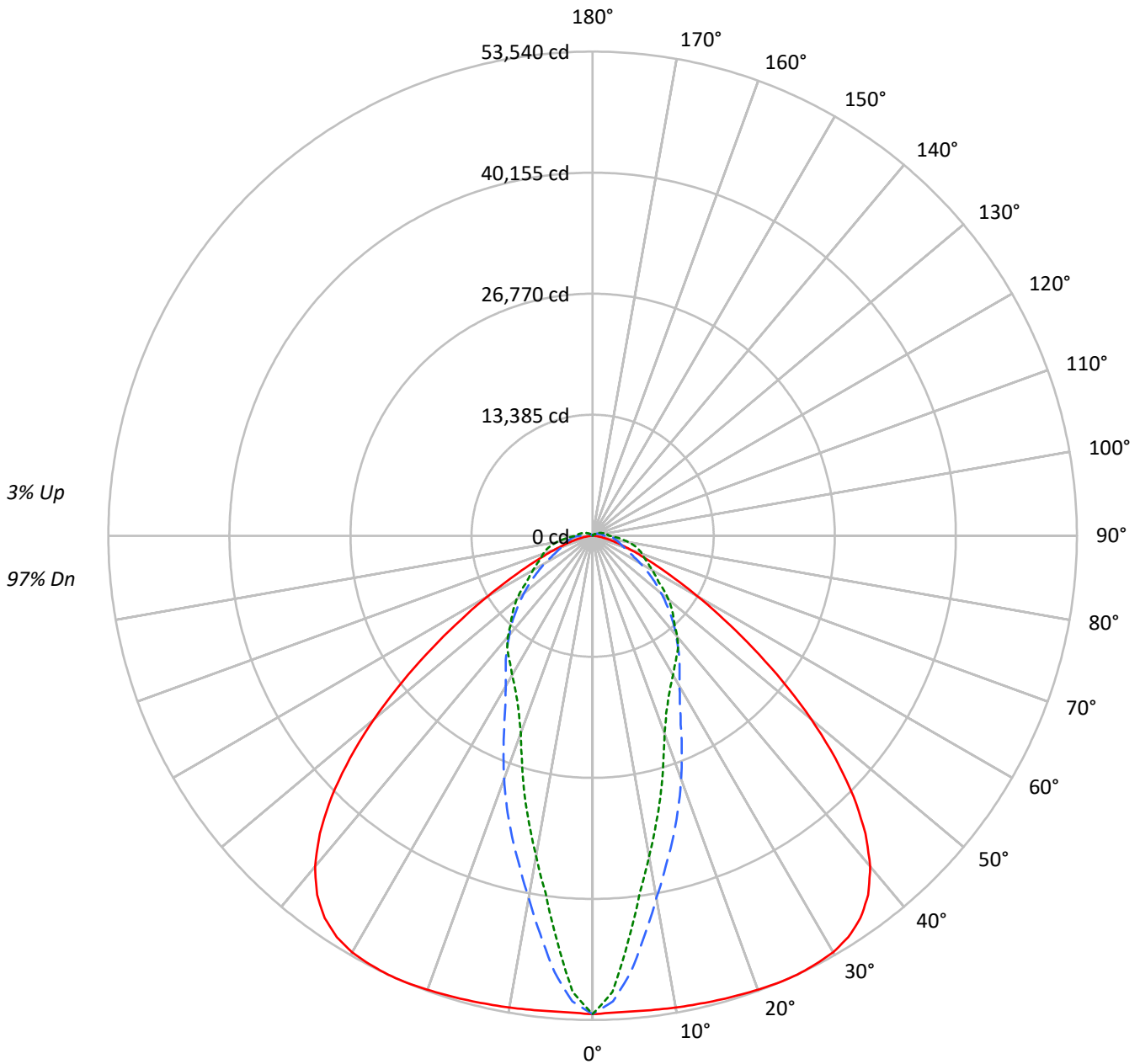
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 78061.0 lumens
Efficiency: N/A
Efficacy: 132.3 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°	83645	83645	83645
5°	83475	76208	70868
10°	84417	64222	56862
15°	86065	54950	46701
20°	88483	46484	37798
25°	91543	38495	33142
30°	94708	33181	30811
35°	96678	30256	29379
40°	95024	27348	27897
45°	87418	24731	25853
50°	73754	21867	24293
55°	56042	19172	21648
60°	39273	16461	20760
65°	26417	14199	20368
70°	18042	13353	21431
75°	12519	13811	22995
80°	8619	15369	23836
85°	5041	19398	25336



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4452.3	5.7
10°-20°	10473.7	13.4
20°-30°	13128.7	16.8
30°-40°	13931.0	17.8
40°-50°	12595.8	16.1
50°-60°	9132.8	11.7
60°-70°	5731.3	7.3
70°-80°	3792.8	4.9
80°-90°	2185.0	2.8
90°-100°	1058.6	1.4
100°-110°	730.7	0.9
110°-120°	450.9	0.6
120°-130°	218.4	0.3
130°-140°	100.4	0.1
140°-150°	54.9	0.1
150°-160°	23.9	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	28054.6	35.9
0°-40°	41985.6	53.8
0°-60°	63714.3	81.6
0°-90°	75423.4	96.6
90°-120°	2240.1	2.9
90°-150°	2613.7	3.3
90°-180°	2638.0	3.4
0°-180°	78061.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	52890	52890	52890	52890	52890	
5°	52785	51431	48410	46165	45002	###
15°	53188	43351	34431	30621	29232	15084
25°	53540	33520	23055	20462	19813	24735
35°	51622	22285	16732	16209	16204	32091
45°	40809	14115	12126	12418	12630	31088
55°	21605	8749	7913	8583	8890	19521
65°	7727	5074	4581	5870	6524	8041
75°	2386	2733	3076	4777	5064	2660
85°	418	1133	2250	3131	2874	501
90°	0	473	1304	1837	1852	27
95°	20	332	1148	1560	1631	18
105°	40	222	836	1107	1138	41
115°	55	156	564	705	720	54
125°	60	80	287	362	357	53
135°	50	60	126	196	196	39
145°	60	65	76	116	111	36
155°	60	76	80	86	76	19
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°	52890.5	52890.5	52890.5	52890.5	52890.5
2.5°	52779.7	52477.7	51536.4	50962.5	50479.3
5°	52784.8	51430.7	48410.4	46165.3	45002.5
7.5°	52860.3	49850.1	44408.5	41131.5	39852.9
10°	52976.1	47891.9	40673.4	37179.9	35986.9
12.5°	53061.6	45687.1	37386.3	33797.2	32488.4
15°	53187.5	43351.4	34431.4	30620.8	29231.5
17.5°	53303.3	41151.6	31511.8	27530.0	25984.6
20°	53419.0	38780.7	28592.2	24489.6	23216.0
22.5°	53529.8	36278.8	25743.0	22128.7	21257.9
25°	53539.9	33520.3	23055.0	20462.5	19813.2
27.5°	53409.0	30661.1	20875.3	19068.2	18665.5
30°	53182.5	27887.4	19183.9	18061.4	17774.5
32.5°	52618.7	25058.4	17875.1	17089.9	16923.7
35°	51622.0	22284.8	16732.5	16208.9	16203.9
37.5°	50051.4	19823.2	15494.1	15403.5	15514.3
40°	47730.8	17668.8	14321.3	14562.9	14562.9
42.5°	44635.0	15796.2	13259.1	13505.8	13440.3
45°	40809.3	14114.9	12126.5	12418.5	12629.9
47.5°	36374.5	12634.9	10968.7	11532.5	11824.5
50°	31552.1	11225.4	9911.6	10631.5	10963.7
52.5°	26498.1	9921.7	8879.7	9705.2	9972.0
55°	21605.2	8748.8	7913.2	8582.7	8889.8
57.5°	17175.4	7631.3	6966.8	7601.1	8235.4
60°	13364.8	6669.8	6075.8	6981.9	7616.2
62.5°	10208.6	5814.1	5240.2	6403.0	7037.3
65°	7726.9	5074.1	4580.8	5869.5	6523.8
67.5°	5824.1	4434.8	4067.3	5481.8	6121.1
70°	4374.4	3815.6	3654.6	5240.2	5814.1
72.5°	3231.7	3246.8	3327.4	5028.8	5466.7
75°	2386.0	2733.4	3075.7	4777.1	5064.0
77.5°	1706.5	2265.2	2849.1	4475.1	4575.8
80°	1183.0	1847.4	2612.6	4077.4	3991.8
82.5°	740.0	1479.9	2401.1	3639.5	3402.9
85°	417.8	1132.6	2250.1	3131.0	2874.3
87.5°	186.3	845.7	1968.2	2441.4	2280.3
90°	0.0	473.2	1303.8	1837.3	1852.5
92.5°	10.1	392.6	1203.1	1681.3	1731.6
95°	20.1	332.2	1147.7	1560.5	1631.0
97.5°	25.2	292.0	1077.2	1449.7	1510.2
100°	30.2	261.8	991.7	1334.0	1384.3
102.5°	35.2	241.6	911.1	1213.2	1253.4
105°	40.3	221.5	835.6	1107.4	1137.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	50.3	171.2	629.2	795.3	820.5
115°	55.4	156.0	563.8	704.7	719.8
117.5°	60.4	135.9	493.3	619.2	624.2
120°	60.4	120.8	422.8	528.6	528.6
122.5°	60.4	100.7	352.4	437.9	432.9
125°	60.4	80.5	286.9	362.4	357.4
127.5°	55.4	65.4	231.6	302.0	297.0
130°	55.4	65.4	186.3	256.7	256.7
132.5°	50.3	60.4	151.0	221.5	221.5
135°	50.3	60.4	125.8	196.3	196.3
137.5°	50.3	65.4	105.7	171.2	171.2
140°	50.3	60.4	90.6	151.0	151.0
142.5°	55.4	60.4	80.5	130.9	130.9
145°	60.4	65.4	75.5	115.8	110.7
147.5°	60.4	70.5	75.5	100.7	95.6
150°	60.4	75.5	75.5	90.6	85.6
152.5°	60.4	75.5	75.5	85.6	80.5
155°	60.4	75.5	80.5	85.6	75.5
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°	40.3	206.4	765.1	991.7	1026.9
110°	45.3	186.3	699.7	886.0	921.2



(END OF REPORT)