

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: P829695

Luminaire Tested: **OHBL-100SE-N-UNV-L730-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829695
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-L730-CD
Description: 100000 LUMEN OHBL SE LED LUMINAIRE WITH 70CRI, 3000K LEDS AND NARROW LENS
Light Source: -
Ballast/Driver: -

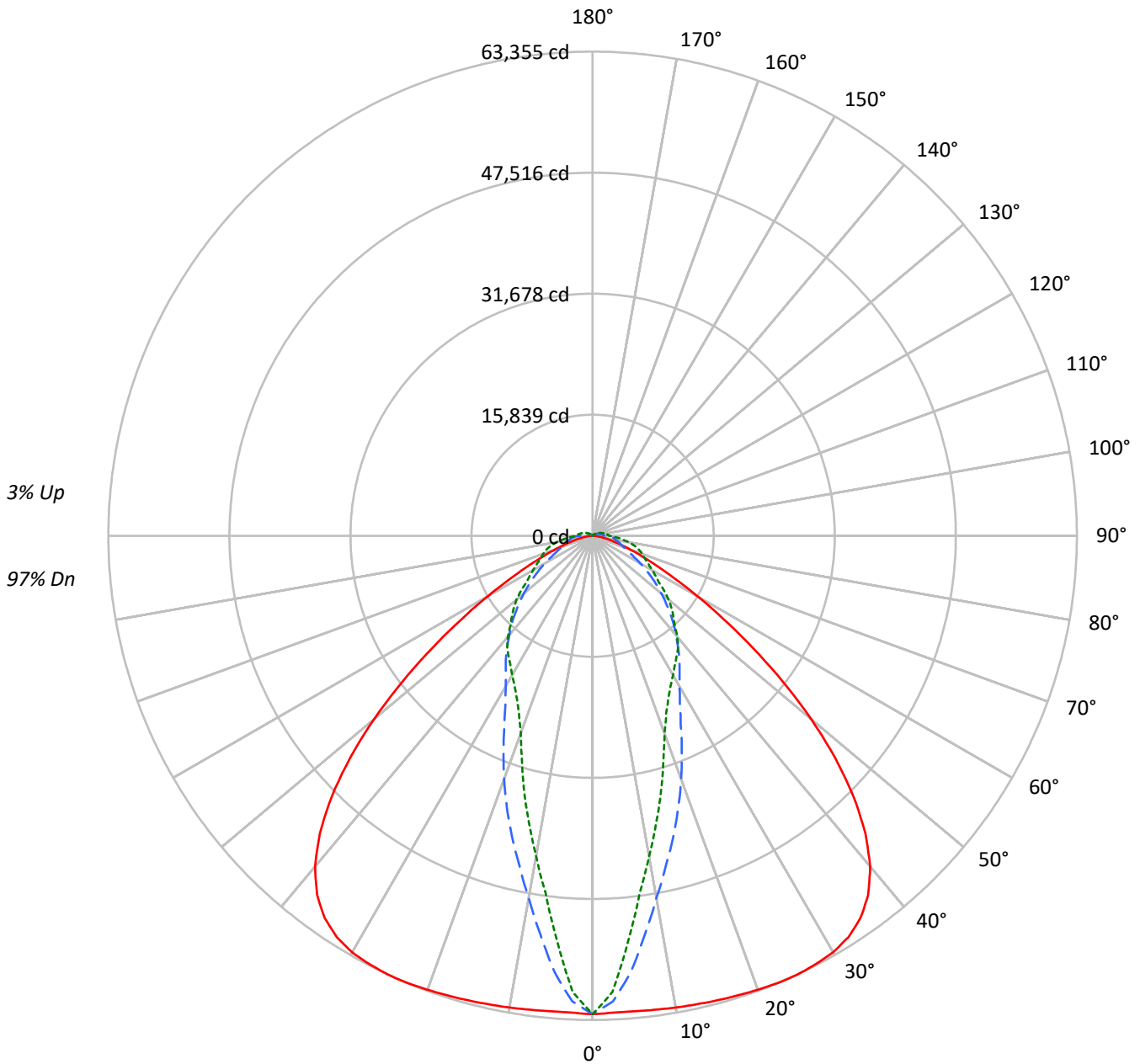
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 92372.0 lumens
Efficiency: N/A
Efficacy: 156.5 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				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°	98980	98980	98980
5°	98778	90179	83860
10°	99893	75996	67286
15°	101844	65024	55262
20°	104705	55006	44727
25°	108326	45552	39218
30°	112070	39264	36460
35°	114402	35803	34765
40°	112444	32361	33011
45°	103444	29265	30593
50°	87275	25876	28747
55°	66316	22687	25616
60°	46473	19479	24566
65°	31260	16802	24102
70°	21349	15800	25360
75°	14815	16343	27211
80°	10199	18186	28206
85°	5965	22954	29981



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5268.5	5.7
10°-20°	12393.9	13.4
20°-30°	15535.6	16.8
30°-40°	16485.0	17.8
40°-50°	14905.0	16.1
50°-60°	10807.1	11.7
60°-70°	6782.0	7.3
70°-80°	4488.1	4.9
80°-90°	2585.6	2.8
90°-100°	1252.6	1.4
100°-110°	864.6	0.9
110°-120°	533.5	0.6
120°-130°	258.4	0.3
130°-140°	118.8	0.1
140°-150°	64.9	0.1
150°-160°	28.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
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0°-30°	33197.9	35.9
0°-40°	49682.9	53.8
0°-60°	75395.1	81.6
0°-90°	89250.8	96.6
90°-120°	2650.8	2.9
90°-150°	3092.9	3.3
90°-180°	3121.0	3.4
0°-180°	92372.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	62587	62587	62587	62587	62587	
5°	62462	60860	57286	54629	53253	###
15°	62938	51299	40744	36235	34590	17849
25°	63355	39666	27282	24214	23446	29269
35°	61086	26370	19800	19180	19175	37974
45°	48291	16703	14350	14695	14945	36788
55°	25566	10353	9364	10156	10520	23100
65°	9144	6004	5421	6946	7720	9515
75°	2824	3234	3640	5653	5992	3147
85°	494	1340	2663	3705	3401	593
90°	0	560	1543	2174	2192	32
95°	24	393	1358	1847	1930	21
105°	48	262	989	1310	1346	48
115°	66	185	667	834	852	64
125°	72	95	340	429	423	62
135°	60	72	149	232	232	47
145°	72	77	89	137	131	43
155°	72	89	95	101	89	22
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°	62587.0	62587.0	62587.0	62587.0	62587.0
2.5°	62455.9	62098.5	60984.6	60305.5	59733.7
5°	62461.9	60859.5	57285.5	54628.8	53252.8
7.5°	62551.2	58989.1	52549.9	48672.1	47159.1
10°	62688.2	56672.0	48130.1	43996.1	42584.4
12.5°	62789.5	54062.9	44240.3	39993.2	38444.5
15°	62938.4	51299.0	40743.8	36234.6	34590.5
17.5°	63075.4	48696.0	37288.9	32577.1	30748.4
20°	63212.4	45890.4	33834.0	28979.3	27472.3
22.5°	63343.5	42929.9	30462.5	26185.6	25155.1
25°	63355.4	39665.6	27281.6	24214.0	23445.5
27.5°	63200.5	36282.2	24702.4	22563.9	22087.4
30°	62932.4	33000.1	22701.0	21372.6	21033.1
32.5°	62265.3	29652.4	21152.2	20223.0	20026.4
35°	61085.9	26370.3	19800.0	19180.5	19174.6
37.5°	59227.4	23457.5	18334.7	18227.5	18358.5
40°	56481.3	20908.0	16946.8	17232.7	17232.7
42.5°	52818.0	18692.1	15689.9	15981.8	15904.4
45°	48290.9	16702.6	14349.7	14695.2	14945.3
47.5°	43043.1	14951.3	12979.6	13646.8	13992.3
50°	37336.5	13283.4	11728.7	12580.5	12973.7
52.5°	31356.0	11740.6	10507.6	11484.5	11800.2
55°	25566.1	10352.7	9363.9	10156.2	10519.5
57.5°	20324.2	9030.3	8244.1	8994.6	9745.1
60°	15815.0	7892.6	7189.7	8261.9	9012.5
62.5°	12080.2	6880.0	6200.9	7576.9	8327.5
65°	9143.5	6004.3	5420.6	6945.5	7719.9
67.5°	6891.9	5247.8	4813.0	6486.8	7243.3
70°	5176.4	4515.2	4324.6	6200.9	6880.0
72.5°	3824.2	3842.1	3937.4	5950.7	6469.0
75°	2823.5	3234.5	3639.5	5652.9	5992.4
77.5°	2019.3	2680.5	3371.5	5295.5	5414.6
80°	1399.8	2186.1	3091.5	4824.9	4723.7
82.5°	875.6	1751.3	2841.3	4306.7	4026.7
85°	494.4	1340.3	2662.6	3705.1	3401.3
87.5°	220.4	1000.7	2329.1	2889.0	2698.4
90°	0.0	559.9	1542.8	2174.2	2192.1
92.5°	11.9	464.6	1423.6	1989.5	2049.1
95°	23.8	393.1	1358.1	1846.6	1930.0
97.5°	29.8	345.5	1274.7	1715.5	1787.0
100°	35.7	309.7	1173.5	1578.5	1638.1
102.5°	41.7	285.9	1078.2	1435.6	1483.2
105°	47.7	262.1	988.8	1310.5	1346.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	59.6	202.5	744.6	941.2	970.9
115°	65.5	184.7	667.1	833.9	851.8
117.5°	71.5	160.8	583.8	732.7	738.6
120°	71.5	143.0	500.4	625.5	625.5
122.5°	71.5	119.1	417.0	518.2	512.3
125°	71.5	95.3	339.5	428.9	422.9
127.5°	65.5	77.4	274.0	357.4	351.4
130°	65.5	77.4	220.4	303.8	303.8
132.5°	59.6	71.5	178.7	262.1	262.1
135°	59.6	71.5	148.9	232.3	232.3
137.5°	59.6	77.4	125.1	202.5	202.5
140°	59.6	71.5	107.2	178.7	178.7
142.5°	65.5	71.5	95.3	154.9	154.9
145°	71.5	77.4	89.4	137.0	131.0
147.5°	71.5	83.4	89.4	119.1	113.2
150°	71.5	89.4	89.4	107.2	101.3
152.5°	71.5	89.4	89.4	101.3	95.3
155°	71.5	89.4	95.3	101.3	89.4
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°	47.7	244.2	905.4	1173.5	1215.2
110°	53.6	220.4	828.0	1048.4	1090.1



(END OF REPORT)