

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: P829719

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829719
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-100SE-W-UNV-L730-CD
Description: 100000 LUMEN OHBL SE LED LUMINAIRE WITH 70CRI, 3000K LEDS AND WIDE LENS
Light Source: -
Ballast/Driver: -

Summary

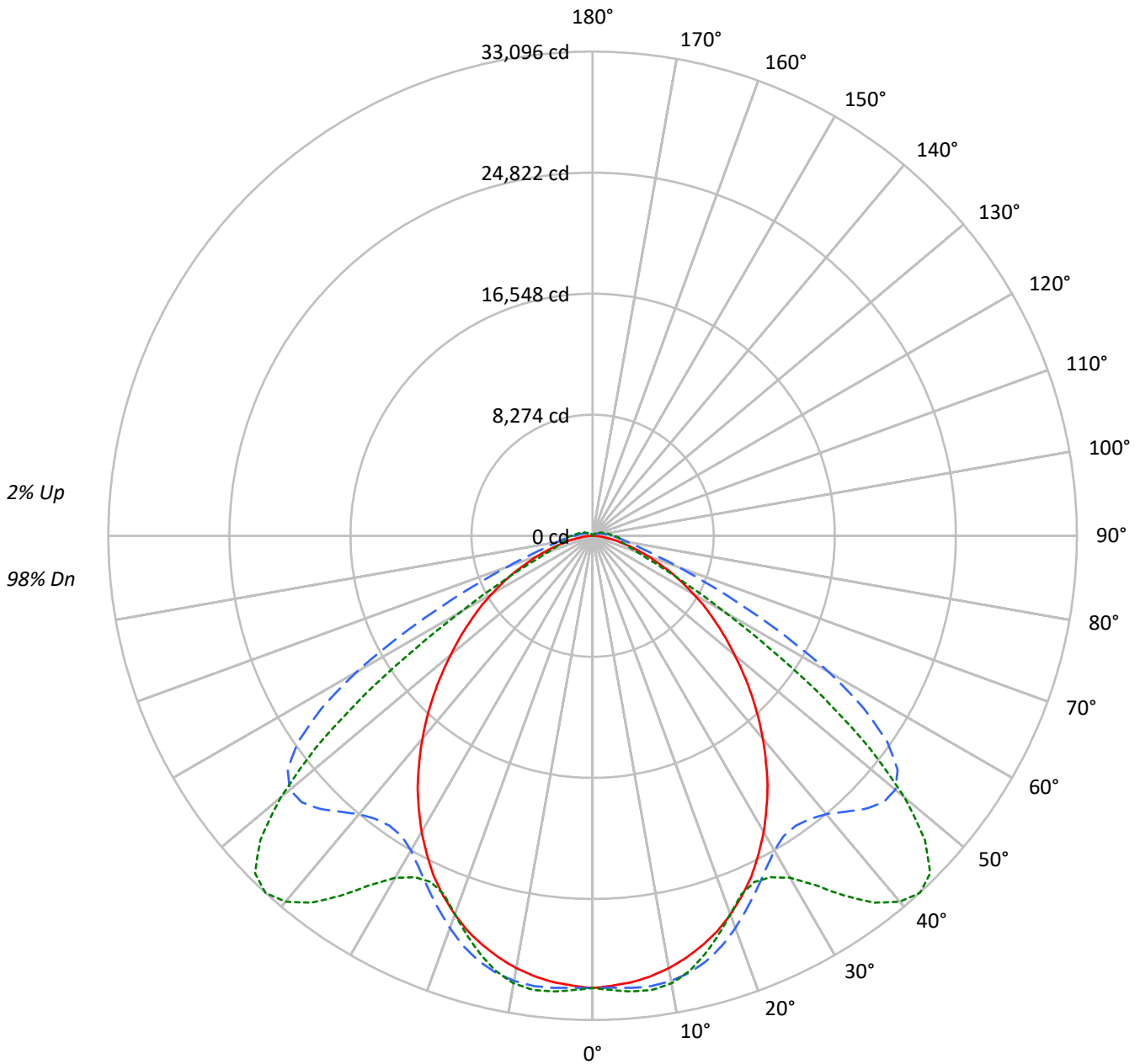
Lumens per Lamp: N/A
Luminaire Lumens: 92564.0 lumens
Efficiency: N/A
Efficacy: 156.9 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

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	119	119	119	119	116	116	116	116	110	110	110	105	105	105	100	100	100					98															
1	109	104	100	96	106	102	98	95	97	94	91	93	90	88	89	87	85					83															
2	99	91	85	79	96	89	83	78	85	80	76	82	77	74	78	75	72					70															
3	90	80	72	66	88	78	71	65	75	69	64	72	67	62	69	65	61					59															
4	83	71	62	56	80	69	61	55	67	60	54	64	58	53	62	57	52					50															
5	76	63	54	48	74	62	54	47	60	52	47	57	51	46	55	50	45					43															
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	50	44	40					38															
7	65	51	43	36	63	50	42	36	49	41	36	47	40	35	45	40	35					33															
8	60	47	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31					29															
9	56	43	34	29	55	42	34	29	41	34	28	39	33	28	38	32	28					26															
10	52	39	31	26	51	39	31	26	38	31	26	36	30	26	35	30	25					24															

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	48891	48891	48891
5°	48435	48845	49240
10°	47827	48792	49090
15°	46895	48007	47312
20°	45617	46378	44794
25°	43906	44402	43690
30°	41631	42938	46779
35°	39035	43756	54442
40°	36025	47419	62555
45°	32876	53825	66777
50°	29591	59566	61643
55°	26505	59548	46647
60°	23363	50436	28179
65°	20044	34877	16805
70°	16285	22590	11875
75°	12389	16233	10661
80°	8893	14321	11391
85°	6035	15870	16051



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2954.2	3.2
10°-20°	8365.5	9.0
20°-30°	12241.6	13.2
30°-40°	15898.2	17.2
40°-50°	19413.7	21.0
50°-60°	17096.8	18.5
60°-70°	8909.2	9.6
70°-80°	3820.6	4.1
80°-90°	1834.8	2.0
90°-100°	862.0	0.9
100°-110°	535.8	0.6
110°-120°	316.8	0.3
120°-130°	172.2	0.2
130°-140°	86.4	0.1
140°-150°	41.6	0.0
150°-160°	14.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	23561.3	25.5
0°-40°	39459.5	42.6
0°-60°	75970.0	82.1
0°-90°	90534.7	97.8
90°-120°	1714.6	1.9
90°-150°	2014.8	2.2
90°-180°	2029.0	2.2
0°-180°	92564.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	30915	30915	30915	30915	30915	
5°	30628	30861	31028	31302	31268	###
15°	28980	29794	30081	29854	29614	8160
25°	25679	27053	26593	26092	26119	11784
35°	20843	23044	24198	28220	30028	12991
45°	15347	19309	26392	31955	32622	11834
55°	10218	16915	24578	21550	19156	9171
65°	5863	11719	11252	6256	5383	5800
75°	2361	5483	3615	2474	2348	2575
85°	500	1954	1841	1801	1821	558
90°	7	707	1214	1387	1421	35
95°	13	414	967	1134	1167	10
105°	27	233	627	754	767	28
115°	40	133	387	474	487	41
125°	47	67	227	294	300	40
135°	40	40	107	180	187	31
145°	53	40	47	87	100	31
155°	53	53	40	40	40	16
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°	30914.7	30914.7	30914.7	30914.7	30914.7
2.5°	30781.3	30914.7	30921.4	31108.1	31088.1
5°	30627.9	30861.3	31028.1	31301.5	31268.2
7.5°	30374.4	30741.3	31034.7	31334.9	31308.2
10°	30014.3	30514.5	30901.3	31148.1	31068.1
12.5°	29547.4	30207.7	30587.9	30641.2	30487.8
15°	28980.4	29794.2	30081.0	29854.2	29614.1
17.5°	28340.1	29293.9	29394.0	28900.4	28600.3
20°	27539.7	28626.9	28526.9	27846.6	27513.1
22.5°	26652.7	27893.3	27573.1	26859.4	26539.3
25°	25678.9	27052.9	26592.6	26092.4	26119.1
27.5°	24538.3	26099.1	25652.2	25879.0	26305.8
30°	23377.8	25098.6	24825.1	26145.8	26986.2
32.5°	22103.8	24071.4	24318.2	26926.1	28300.1
35°	20843.2	23044.3	24198.2	28220.1	30027.6
37.5°	19449.2	22003.8	24391.6	29714.1	31608.3
40°	18095.3	20990.0	24831.8	31054.8	32655.5
42.5°	16714.6	20082.9	25572.1	31848.5	33095.7
45°	15347.3	19309.2	26392.5	31955.2	32622.2
47.5°	13980.0	18655.5	26959.5	31108.1	30801.3
50°	12659.3	18075.3	26999.5	29073.8	27819.9
52.5°	11425.4	17541.7	26265.8	25832.3	23884.7
55°	10218.2	16914.7	24578.3	21550.2	19155.8
57.5°	9117.7	16047.6	21977.1	16948.1	14333.5
60°	7950.4	14873.7	18615.5	12399.2	10338.2
62.5°	6876.6	13413.0	14847.1	8630.8	7430.2
65°	5862.8	11718.9	11252.0	6256.3	5382.6
67.5°	4788.9	9964.7	8303.9	4562.2	4001.9
70°	3948.5	8337.3	6182.9	3548.4	3221.5
72.5°	3088.1	6789.9	4622.2	2881.4	2701.3
75°	2361.1	5482.6	3615.1	2474.5	2347.8
77.5°	1740.8	4335.4	2908.0	2187.7	2067.6
80°	1220.6	3415.0	2434.5	1954.3	1907.6
82.5°	820.4	2641.3	2074.3	1860.9	1867.6
85°	500.2	1954.3	1840.9	1800.9	1820.9
87.5°	240.1	1387.3	1580.8	1640.8	1660.8
90°	6.7	707.0	1213.9	1387.3	1420.7
92.5°	0.0	540.3	1067.2	1240.6	1273.9
95°	13.3	413.5	967.1	1133.9	1167.2
97.5°	13.3	340.2	867.1	1040.5	1060.5
100°	20.0	293.5	773.7	940.4	960.5
102.5°	20.0	260.1	693.7	840.4	853.7
105°	26.7	233.4	627.0	753.7	767.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	40.0	160.1	440.2	533.6	546.9
115°	40.0	133.4	386.9	473.6	486.9
117.5°	46.7	120.1	340.2	420.2	426.9
120°	46.7	100.0	293.5	373.5	380.2
122.5°	46.7	80.0	260.1	333.5	340.2
125°	46.7	66.7	226.8	293.5	300.1
127.5°	40.0	46.7	193.4	260.1	266.8
130°	40.0	40.0	160.1	226.8	240.1
132.5°	40.0	40.0	133.4	200.1	213.4
135°	40.0	40.0	106.7	180.1	186.8
137.5°	40.0	40.0	86.7	153.4	166.7
140°	40.0	40.0	66.7	133.4	140.1
142.5°	46.7	40.0	60.0	113.4	120.1
145°	53.4	40.0	46.7	86.7	100.0
147.5°	53.4	46.7	46.7	73.4	80.0
150°	53.4	53.4	40.0	53.4	66.7
152.5°	53.4	53.4	40.0	40.0	53.4
155°	53.4	53.4	40.0	40.0	40.0
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°	33.3	206.8	560.3	673.7	687.0
110°	33.3	180.1	493.6	600.3	613.6



(END OF REPORT)