

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: P829709

Luminaire Tested: **OHBL-100SE-NL-UNV-L740-CD**

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P829709
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P472951)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-100SE-NL-UNV-L740-CD
Description: 100000 LUMEN OHBL SE LED LUMINAIRE WITH 70CRI, 4000K LEDS AND NO LENS
Light Source: -
Ballast/Driver: -

Summary

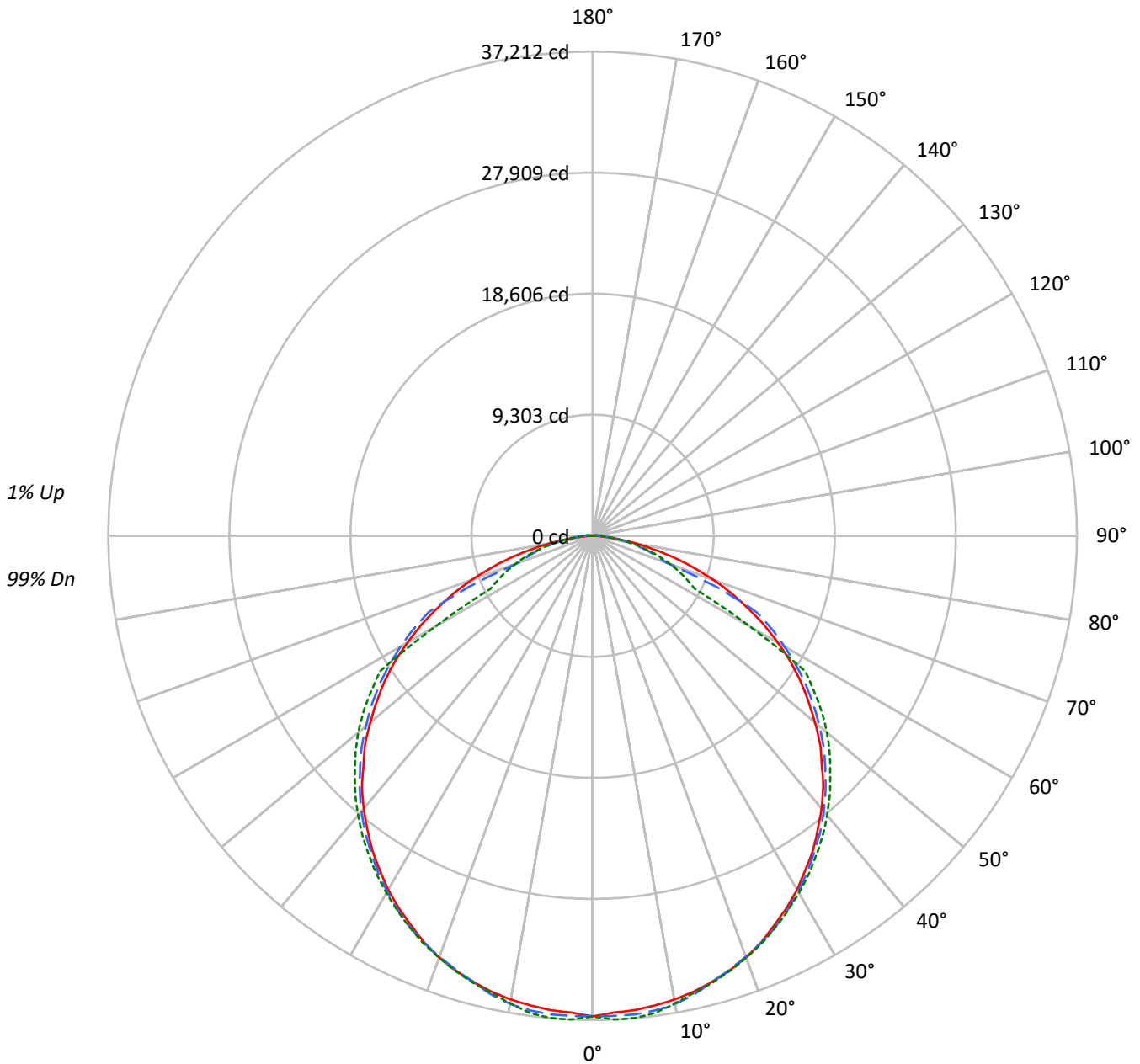
Lumens per Lamp: N/A
Luminaire Lumens: 103715.0 lumens
Efficiency: N/A
Efficacy: 175.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular (W 1.8' x L: 3.78' x H: 0')
CIE Type: Direct

Input Watts (W): 590.1
Input Voltage (V): NR
Input Current (Ain): 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	111	111	111	106	106	106	102	102	102	99																			
1	109	105	100	97	106	102	99	95	98	95	92	94	91	89	90	88	86	84																			
2	99	92	85	79	97	90	84	78	86	81	76	83	78	75	80	76	73	71																			
3	91	81	73	66	88	79	72	66	76	70	64	73	68	63	70	66	62	60																			
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51																			
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44																			
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39																			
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34																			
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30																			
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27																			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	58421	58421	58421
5°	58098	58623	59065
10°	58114	58666	58593
15°	58104	58094	58221
20°	58025	57937	58079
25°	57628	57922	57967
30°	57361	57657	57883
35°	56990	57302	57840
40°	56498	57033	57876
45°	55683	56524	57756
50°	54844	55961	57810
55°	53794	55189	57174
60°	51993	53838	44510
65°	49191	52052	29956
70°	45498	27632	29073
75°	39686	26259	27764
80°	30519	24087	25444
85°	15404	24344	24930



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3509.5	3.4
10°-20°	10048.6	9.7
20°-30°	15289.9	14.7
30°-40°	18590.3	17.9
40°-50°	19546.8	18.8
50°-60°	17848.6	17.2
60°-70°	11441.8	11.0
70°-80°	5405.0	5.2
80°-90°	1498.8	1.4
90°-100°	396.9	0.4
100°-110°	108.7	0.1
110°-120°	30.1	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	28848.0	27.8
0°-40°	47438.3	45.7
0°-60°	84833.7	81.8
0°-90°	103179.3	99.5
90°-120°	535.7	0.5
90°-150°	535.7	0.5
90°-180°	536.0	0.5
0°-180°	103715.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	36941	36941	36941	36941	36941	
5°	36597	36740	36928	37129	37206	###
15°	35488	35754	35482	35534	35560	10019
25°	33026	33077	33194	33246	33220	15239
35°	29519	29344	29681	30044	29959	18447
45°	24897	24852	25273	25869	25824	19244
55°	19510	19361	20016	20684	20736	17400
65°	13145	13145	13910	7979	8005	13032
75°	6495	6618	4297	4524	4544	6846
85°	849	1076	1342	1452	1374	1255
90°	0	363	596	706	694	37
95°	19	188	428	577	577	11
105°	32	71	104	104	97	32
115°	32	45	64	45	6	23
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	36940.6	36940.6	36940.6	36940.6	36940.6
2.5°	36681.2	36804.7	36940.6	37115.6	37212.4
5°	36596.8	36739.5	36927.6	37128.6	37206.2
7.5°	36415.6	36616.0	36797.9	36940.6	36985.9
10°	36188.5	36428.7	36532.3	36519.3	36487.0
12.5°	35883.8	36137.0	36104.8	35955.1	35981.2
15°	35488.5	35754.1	35482.3	35533.8	35559.9
17.5°	35021.8	35281.2	34963.5	35067.1	35074.0
20°	34477.6	34671.8	34425.5	34509.9	34509.9
22.5°	33822.9	33958.8	33855.2	33913.5	33926.6
25°	33025.5	33077.0	33193.6	33245.8	33219.7
27.5°	32261.0	32195.8	32423.0	32545.8	32480.6
30°	31411.4	31307.8	31573.4	31774.5	31696.9
32.5°	30439.0	30374.5	30679.2	30918.7	30873.4
35°	29518.7	29343.7	29680.7	30043.7	29959.3
37.5°	28429.6	28326.0	28708.3	29091.2	29045.9
40°	27366.6	27191.6	27626.0	28079.6	28034.3
42.5°	26226.1	26018.1	26491.6	27036.5	26984.4
45°	24896.8	24851.5	25272.8	25869.2	25823.9
47.5°	23717.8	23490.6	24080.1	24657.3	24709.4
50°	22291.1	22207.3	22745.4	23445.3	23496.8
52.5°	20897.9	20839.6	21403.0	22109.9	22200.5
55°	19510.3	19361.4	20016.1	20683.8	20736.0
57.5°	18026.6	17870.9	18538.6	19264.7	19374.5
60°	16438.0	16289.0	17021.3	17695.9	14072.4
62.5°	14849.9	14746.3	15511.5	10987.0	8854.8
65°	13145.3	13145.3	13909.8	7979.1	8005.2
67.5°	11551.1	11447.5	10371.4	7168.7	7168.7
70°	9839.6	9878.7	5975.9	6281.3	6287.5
72.5°	8121.9	8264.6	5160.0	5405.7	5418.7
75°	6494.8	6618.3	4297.4	4524.5	4543.7
77.5°	4770.9	3668.7	3454.6	3630.3	3636.5
80°	3351.0	2314.1	2644.8	2813.0	2793.8
82.5°	1957.2	1620.3	1938.0	2061.5	2054.7
85°	848.9	1076.1	1341.6	1452.1	1373.9
87.5°	271.8	667.7	835.9	901.1	894.2
90°	0.0	363.0	596.4	706.2	693.8
92.5°	0.0	284.8	518.8	648.5	654.7
95°	19.2	188.0	428.2	577.1	577.1
97.5°	13.0	135.9	304.7	453.6	466.7
100°	13.0	109.8	201.1	323.9	330.8
102.5°	32.3	90.6	122.8	207.3	214.1
105°	32.3	71.4	103.6	103.6	97.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	39.1	52.2	71.4	52.2	6.2
115°	32.3	45.3	64.5	45.3	6.2
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
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°	32.3	64.5	90.6	58.3	19.2
110°	39.1	58.3	77.5	52.2	6.2



(END OF REPORT)