

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: P829669

Luminaire Tested: **OHBL-100SE-A-UNV-L940-CD**

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P829669
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-200-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-100SE-A-UNV-L940-CD
Description: 100000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 4000K LEDS AND AISLE LENS
Light Source: -
Ballast/Driver: -

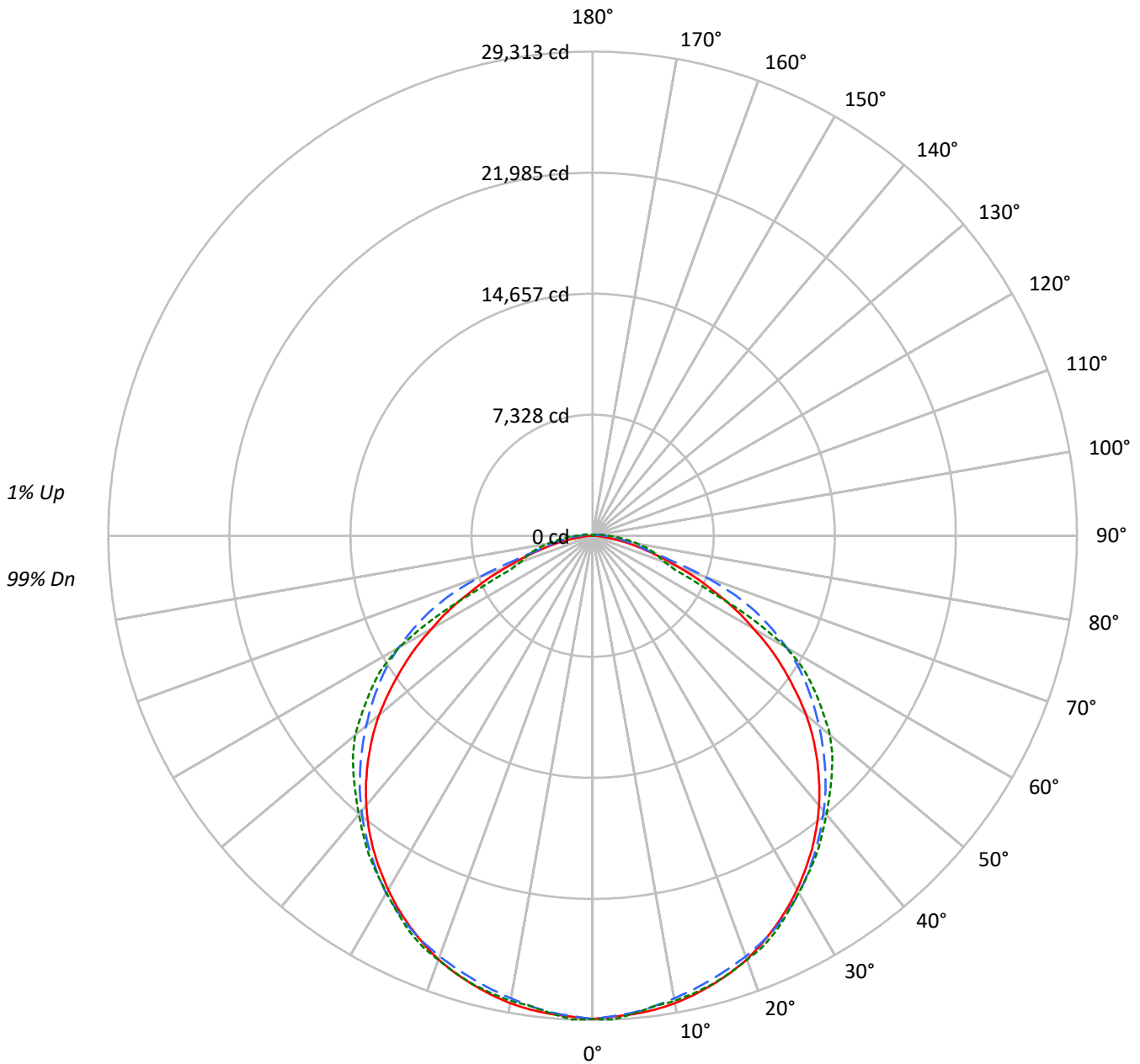
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 82685.0 lumens
Efficiency: N/A
Efficacy: 140.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
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	106	106	106	101	101	101				99																
1	109	104	100	96	106	102	98	95	97	94	91	93	91	88	90	87	86				83																
2	99	91	84	79	96	89	83	78	85	80	76	82	78	74	79	75	72				70																
3	91	80	72	66	88	79	71	65	75	69	64	72	67	63	70	65	61				59																
4	83	71	62	56	81	70	62	55	67	60	54	65	59	54	62	57	53				51																
5	76	64	55	48	74	62	54	48	60	53	47	58	52	46	56	50	46				44																
6	70	57	48	42	68	56	48	42	54	47	41	52	46	41	51	45	40				38																
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36				34																
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	42	36	32				30																
9	57	43	35	30	55	43	35	29	41	34	29	40	34	29	39	33	29				27																
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	36	30	26				24																

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	46264	46264	46264
5°	45962	45592	45688
10°	45794	44902	45181
15°	45503	44385	44878
20°	45212	44060	44481
25°	44667	43732	44087
30°	44073	43216	43253
35°	43364	42397	42793
40°	42442	41550	42167
45°	41164	40570	41890
50°	39431	39456	41558
55°	36679	38358	40007
60°	33076	36753	36987
65°	28373	33774	23441
70°	22854	26365	16995
75°	17134	15651	17249
80°	11927	13014	16468
85°	6788	11924	15436



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2758.4	3.3
10°-20°	7909.7	9.6
20°-30°	12080.7	14.6
30°-40°	14658.0	17.7
40°-50°	15363.0	18.6
50°-60°	13921.2	16.8
60°-70°	9333.6	11.3
70°-80°	4191.2	5.1
80°-90°	1520.9	1.8
90°-100°	457.8	0.6
100°-110°	216.0	0.3
110°-120°	108.3	0.1
120°-130°	59.7	0.1
130°-140°	41.1	0.0
140°-150°	27.6	0.0
150°-160°	20.5	0.0
160°-170°	13.2	0.0
170°-180°	4.2	0.0
0°-30°	22748.8	27.5
0°-40°	37406.8	45.2
0°-60°	66690.9	80.7
0°-90°	81736.6	98.9
90°-120°	782.1	0.9
90°-150°	910.5	1.1
90°-180°	948.0	1.1
0°-180°	82685.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	29254	29254	29254	29254	29254	
5°	29064	29165	28962	29051	29013	###
15°	28120	28010	27812	28057	28091	7940
25°	26124	26010	26192	26433	26356	12042
35°	23154	23210	23446	23696	23603	14472
45°	19216	19530	19893	20401	20464	14803
55°	14141	14822	15832	16467	16429	12622
65°	8299	9598	10896	9196	7508	8269
75°	3266	4738	3485	3566	3798	3569
85°	563	1079	1383	1671	1751	686
90°	4	360	715	897	939	34
95°	4	224	491	596	613	6
105°	17	97	241	292	305	20
115°	34	51	123	156	165	31
125°	30	34	76	89	93	29
135°	38	42	46	68	72	30
145°	38	42	42	46	51	25
155°	42	46	46	46	42	20
165°	46	46	46	46	46	13
175°	46	46	42	38	38	4
180°	42	42	42	42	42	



TEST NUMBER: P829669

CATALOG NUMBER: OHBL-100SE-A-UNV-L940-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	29254.0	29254.0	29254.0	29254.0	29254.0
2.5°	29135.6	29258.3	29106.0	29270.9	29313.2
5°	29063.7	29165.2	28962.2	29051.0	29012.9
7.5°	28932.6	28966.4	28725.3	28797.2	28721.1
10°	28738.0	28721.1	28437.7	28577.2	28594.2
12.5°	28450.3	28399.6	28145.8	28357.3	28361.5
15°	28120.4	28010.4	27811.6	28057.0	28090.8
17.5°	27739.7	27595.9	27464.8	27782.0	27731.3
20°	27295.6	27126.4	27101.0	27447.9	27321.0
22.5°	26745.7	26614.6	26673.8	27003.7	26923.3
25°	26123.9	26009.7	26191.6	26432.7	26356.5
27.5°	25468.3	25400.6	25607.8	25794.0	25645.9
30°	24749.2	24711.1	24986.0	25138.3	24952.2
32.5°	23966.6	23979.3	24241.6	24448.9	24275.4
35°	23154.5	23209.5	23446.4	23695.9	23602.9
37.5°	22262.0	22384.7	22621.5	22904.9	22807.6
40°	21318.7	21496.4	21758.6	22101.3	22012.4
42.5°	20299.3	20523.5	20861.9	21242.6	21234.1
45°	19216.5	19529.5	19893.2	20400.8	20464.3
47.5°	18091.3	18442.4	18903.4	19580.2	19677.5
50°	16868.9	17308.8	17884.0	18696.2	18755.4
52.5°	15506.8	16107.5	16868.9	17647.2	17575.3
55°	14140.6	14821.6	15832.5	16467.0	16429.0
57.5°	12778.5	13544.2	14770.8	15223.4	15219.2
60°	11255.8	12224.4	13565.3	13907.9	13569.5
62.5°	9847.2	10887.8	12279.4	12029.8	10870.9
65°	8299.1	9597.7	10896.2	9195.8	7508.1
67.5°	6924.4	8277.9	9255.0	6298.3	5393.1
70°	5541.2	7034.3	7216.2	4674.0	4610.6
72.5°	4314.5	5904.9	4978.6	4001.5	4204.5
75°	3265.5	4737.5	3485.4	3565.8	3798.5
77.5°	2381.4	3637.7	2711.4	3125.9	3316.2
80°	1637.0	2576.0	2212.2	2626.8	2757.9
82.5°	1027.9	1700.4	1772.3	2115.0	2250.3
85°	562.6	1078.6	1383.2	1670.8	1751.2
87.5°	232.6	651.4	1057.5	1290.1	1357.8
90°	4.2	359.5	714.9	896.7	939.0
92.5°	4.2	274.9	583.7	723.3	752.9
95°	4.2	224.2	490.7	596.4	613.3
97.5°	8.5	177.7	410.3	494.9	511.8
100°	12.7	148.0	342.6	414.5	427.2
102.5°	16.9	118.4	287.6	346.9	359.5
105°	16.9	97.3	241.1	291.9	304.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	29.6	59.2	143.8	181.9	190.3
115°	33.8	50.8	122.7	156.5	165.0
117.5°	33.8	42.3	105.7	131.1	139.6
120°	33.8	38.1	93.1	114.2	118.4
122.5°	33.8	33.8	80.4	101.5	105.7
125°	29.6	33.8	76.1	88.8	93.1
127.5°	33.8	33.8	67.7	80.4	84.6
130°	33.8	38.1	59.2	76.1	76.1
132.5°	38.1	42.3	55.0	71.9	71.9
135°	38.1	42.3	46.5	67.7	71.9
137.5°	42.3	42.3	42.3	63.4	67.7
140°	42.3	42.3	38.1	55.0	59.2
142.5°	38.1	42.3	38.1	50.8	55.0
145°	38.1	42.3	42.3	46.5	50.8
147.5°	42.3	42.3	42.3	42.3	46.5
150°	42.3	42.3	42.3	42.3	42.3
152.5°	42.3	42.3	42.3	42.3	42.3
155°	42.3	46.5	46.5	46.5	42.3
157.5°	42.3	46.5	46.5	46.5	46.5
160°	42.3	46.5	46.5	46.5	46.5
162.5°	46.5	46.5	46.5	46.5	46.5
165°	46.5	46.5	46.5	46.5	46.5
167.5°	46.5	50.8	46.5	46.5	46.5
170°	46.5	46.5	46.5	42.3	42.3
172.5°	46.5	46.5	46.5	42.3	42.3
175°	46.5	46.5	42.3	38.1	38.1
177.5°	50.8	46.5	42.3	38.1	33.8
180°	42.3	42.3	42.3	42.3	42.3



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







107.5°	21.1	80.4	207.3	249.6	258.0
110°	25.4	67.7	173.4	211.5	220.0



(END OF REPORT)