

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: P829697

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

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P829697
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-L740-CD
Description: 100000 LUMEN OHBL SE LED LUMINAIRE WITH 70CRI, 4000K LEDS AND NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

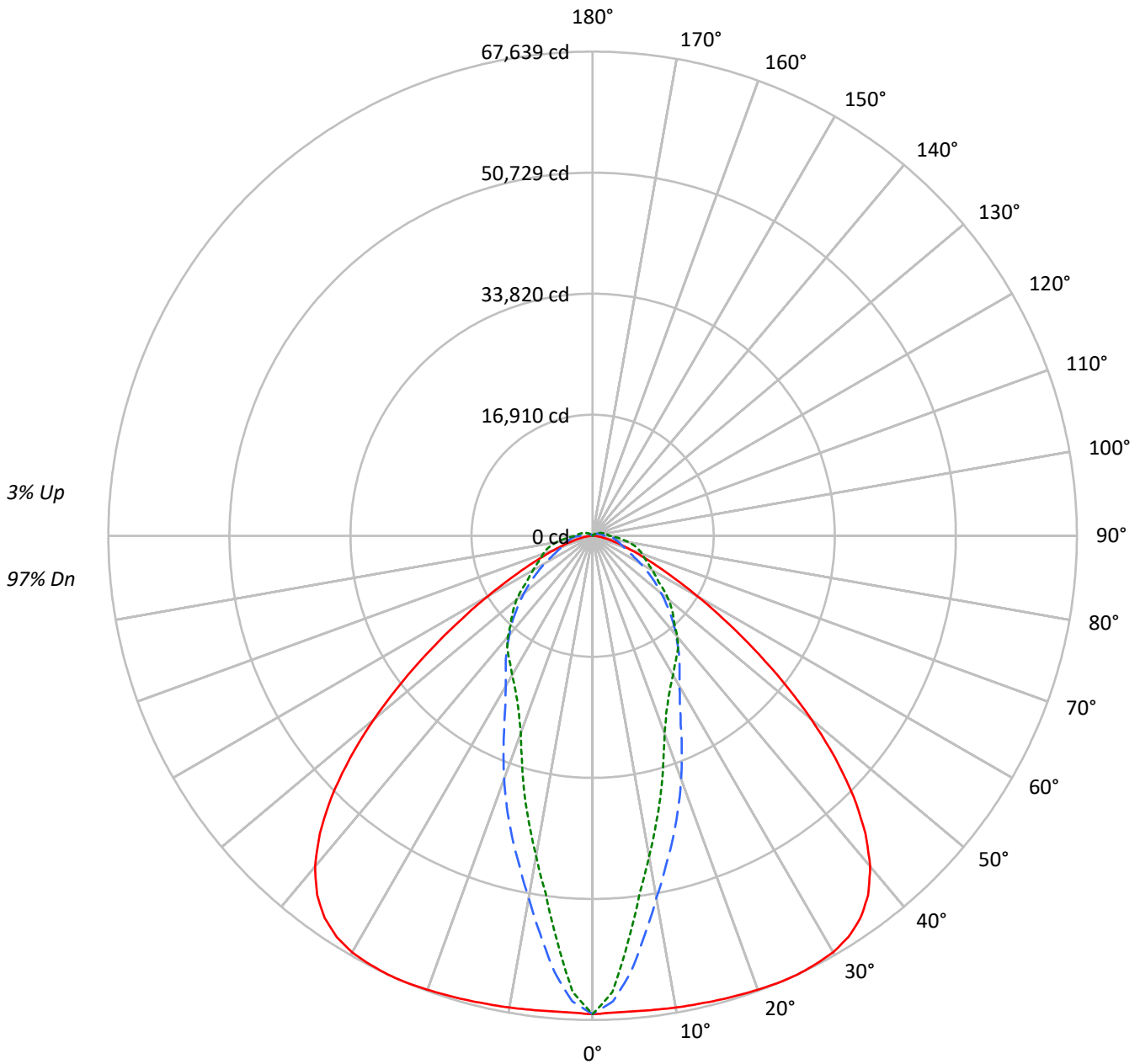
Lumens per Lamp: N/A
Luminaire Lumens: 98617.0 lumens
Efficiency: N/A
Efficacy: 167.1 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

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

TEST NUMBER: P829697

CATALOG NUMBER: OHBL-100SE-N-UNV-L740-CD

Luminous Intensity Polar Plot





TEST NUMBER: P829697

CATALOG NUMBER: OHBL-100SE-N-UNV-L740-CD

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°	105671	105671	105671
5°	105456	96276	89530
10°	106646	81133	71835
15°	108729	69420	58999
20°	111783	58725	47751
25°	115649	48632	41869
30°	119647	41918	38925
35°	122137	38224	37115
40°	120046	34549	35243
45°	110438	31243	32661
50°	93176	27625	30690
55°	70800	24220	27348
60°	49615	20796	26226
65°	33374	17938	25731
70°	22792	16868	27074
75°	15817	17448	29051
80°	10889	19416	30113
85°	6368	24507	32008



TEST NUMBER: P829697

CATALOG NUMBER: OHBL-100SE-N-UNV-L740-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5624.7	5.7
10°-20°	13231.8	13.4
20°-30°	16585.9	16.8
30°-40°	17599.5	17.8
40°-50°	15912.7	16.1
50°-60°	11537.8	11.7
60°-70°	7240.5	7.3
70°-80°	4791.5	4.9
80°-90°	2760.4	2.8
90°-100°	1337.3	1.4
100°-110°	923.1	0.9
110°-120°	569.6	0.6
120°-130°	275.9	0.3
130°-140°	126.9	0.1
140°-150°	69.3	0.1
150°-160°	30.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	35442.3	35.9
0°-40°	53041.8	53.8
0°-60°	80492.4	81.6
0°-90°	95284.8	96.6
90°-120°	2830.0	2.9
90°-150°	3302.0	3.3
90°-180°	3332.0	3.4
0°-180°	98617.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	66818	66818	66818	66818	66818	
5°	66685	64974	61158	58322	56853	###
15°	67194	54767	43498	38684	36929	19055
25°	67639	42347	29126	25851	25031	31248
35°	65216	28153	21139	20477	20471	40541
45°	51556	17832	15320	15689	15956	39275
55°	27295	11053	9997	10843	11231	24661
65°	9762	6410	5787	7415	8242	10158
75°	3014	3453	3886	6035	6398	3360
85°	528	1431	2843	3956	3631	633
90°	0	598	1647	2321	2340	34
95°	25	420	1450	1971	2060	22
105°	51	280	1056	1399	1437	51
115°	70	197	712	890	909	69
125°	76	102	362	458	452	66
135°	64	76	159	248	248	50
145°	76	83	95	146	140	46
155°	76	95	102	108	95	24
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P829697

CATALOG NUMBER: OHBL-100SE-N-UNV-L740-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	66818.3	66818.3	66818.3	66818.3	66818.3
2.5°	66678.4	66296.8	65107.6	64382.6	63772.1
5°	66684.7	64974.0	61158.4	58322.1	56853.1
7.5°	66780.1	62977.2	56102.7	51962.7	50347.4
10°	66926.4	60503.4	51384.0	46970.6	45463.4
12.5°	67034.5	57718.0	47231.3	42697.1	41043.6
15°	67193.5	54767.2	43498.3	38684.3	36929.1
17.5°	67339.7	51988.1	39809.9	34779.6	32827.3
20°	67486.0	48992.9	36121.4	30938.5	29329.6
22.5°	67625.9	45832.2	32522.0	27955.9	26855.8
25°	67638.6	42347.3	29126.1	25851.0	25030.6
27.5°	67473.3	38735.1	26372.5	24089.4	23580.7
30°	67187.1	35231.1	24235.7	22817.5	22455.1
32.5°	66474.9	31657.1	22582.3	21590.2	21380.3
35°	65215.7	28153.1	21138.7	20477.3	20470.9
37.5°	63231.6	25043.3	19574.3	19459.8	19599.7
40°	60299.9	22321.5	18092.5	18397.8	18397.8
42.5°	56388.9	19955.8	16750.7	17062.3	16979.6
45°	51555.7	17831.8	15319.8	15688.7	15955.7
47.5°	45953.1	15962.1	13857.1	14569.4	14938.2
50°	39860.8	14181.5	12521.7	13431.1	13850.8
52.5°	33475.9	12534.4	11218.0	12260.9	12598.0
55°	27294.6	11052.6	9997.0	10842.8	11230.7
57.5°	21698.3	9640.9	8801.4	9602.7	10404.0
60°	16884.2	8426.2	7675.8	8820.5	9621.8
62.5°	12896.9	7345.1	6620.1	8089.2	8890.4
65°	9761.7	6410.3	5787.1	7415.1	8241.8
67.5°	7357.8	5602.6	5138.4	6925.4	7733.0
70°	5526.3	4820.4	4616.9	6620.1	7345.1
72.5°	4082.7	4101.8	4203.6	6353.0	6906.3
75°	3014.4	3453.2	3885.6	6035.1	6397.6
77.5°	2155.8	2861.7	3599.4	5653.5	5780.7
80°	1494.5	2333.9	3300.5	5151.1	5043.0
82.5°	934.8	1869.7	3033.4	4597.9	4299.0
85°	527.8	1430.9	2842.7	3955.6	3631.2
87.5°	235.3	1068.4	2486.5	3084.3	2880.8
90°	0.0	597.8	1647.1	2321.2	2340.3
92.5°	12.7	496.0	1519.9	2124.0	2187.6
95°	25.4	419.7	1449.9	1971.4	2060.4
97.5°	31.8	368.8	1360.9	1831.5	1907.8
100°	38.2	330.7	1252.8	1685.2	1748.8
102.5°	44.5	305.3	1151.1	1532.6	1583.5
105°	50.9	279.8	1055.7	1399.1	1437.2



TEST NUMBER: P829697

CATALOG NUMBER: OHBL-100SE-N-UNV-L740-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	63.6	216.2	794.9	1004.8	1036.6
115°	70.0	197.1	712.3	890.3	909.4
117.5°	76.3	171.7	623.2	782.2	788.6
120°	76.3	152.6	534.2	667.7	667.7
122.5°	76.3	127.2	445.2	553.3	546.9
125°	76.3	101.8	362.5	457.9	451.5
127.5°	70.0	82.7	292.5	381.6	375.2
130°	70.0	82.7	235.3	324.3	324.3
132.5°	63.6	76.3	190.8	279.8	279.8
135°	63.6	76.3	159.0	248.0	248.0
137.5°	63.6	82.7	133.5	216.2	216.2
140°	63.6	76.3	114.5	190.8	190.8
142.5°	70.0	76.3	101.8	165.3	165.3
145°	76.3	82.7	95.4	146.3	139.9
147.5°	76.3	89.0	95.4	127.2	120.8
150°	76.3	95.4	95.4	114.5	108.1
152.5°	76.3	95.4	95.4	108.1	101.8
155°	76.3	95.4	101.8	108.1	95.4
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°	50.9	260.7	966.6	1252.8	1297.3
110°	57.2	235.3	884.0	1119.3	1163.8



(END OF REPORT)