

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: P829849

Luminaire Tested: **OHBL-15SE-N-UNV-L940-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829849
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-15SE-N-UNV-L940-CD
Description: 15000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 4000K LEDS AND NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

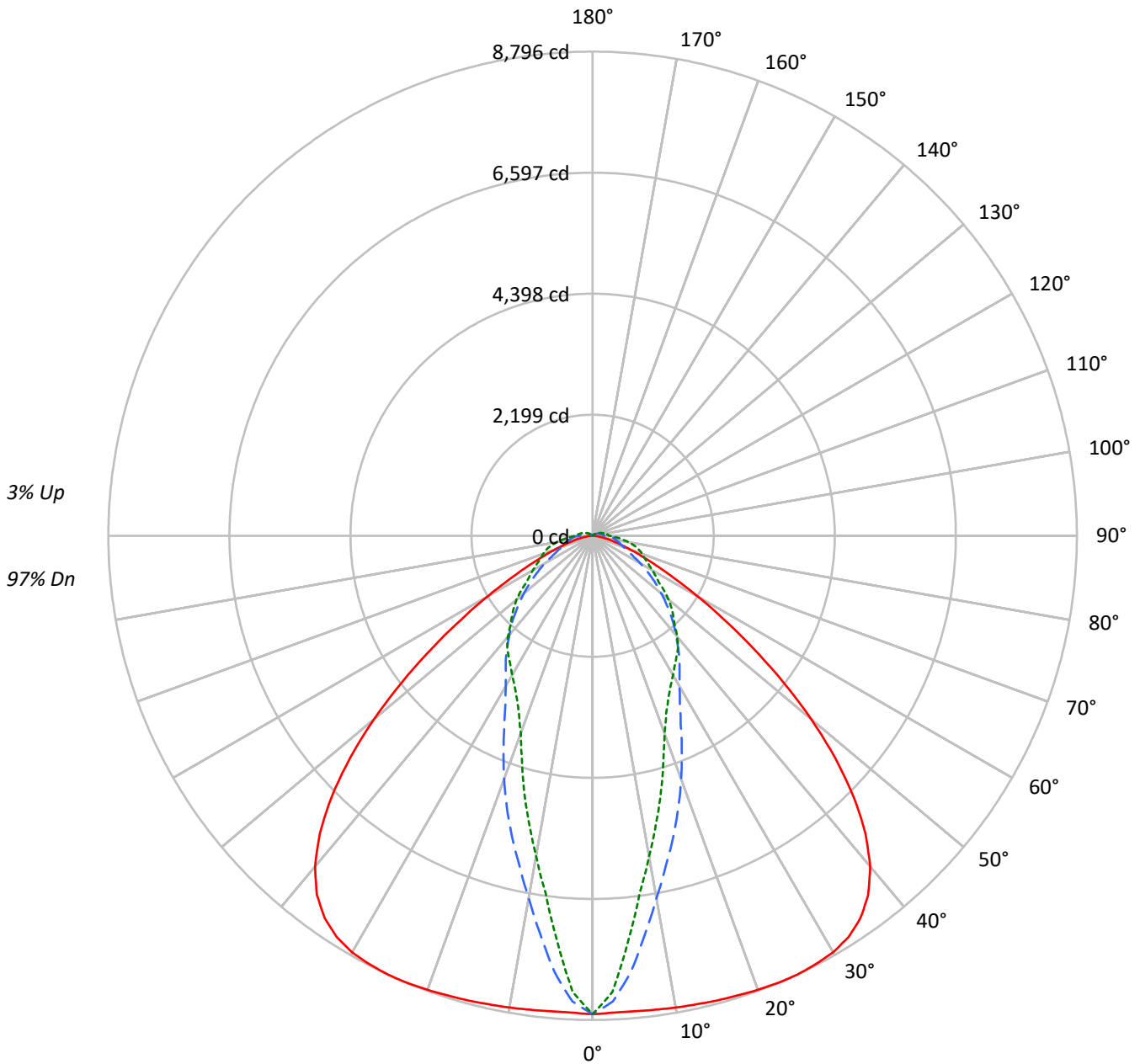
Lumens per Lamp: N/A
Luminaire Lumens: 12825.0 lumens
Efficiency: N/A
Efficacy: 147.4 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78
Luminous Opening: Rectangular w/ Sides (W: 0.88' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 87
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	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°	28270	28270	28270
5°	28213	25603	23750
10°	28531	21448	18897
15°	29088	18242	15390
20°	29905	15337	12349
25°	30940	12621	10732
30°	32009	10805	9883
35°	32675	9782	9329
40°	32116	8772	8761
45°	29545	7862	8019
50°	24927	6881	7430
55°	18941	5962	6512
60°	13274	5045	6122
65°	8929	4273	5858
70°	6098	3923	5964
75°	4231	3923	6112
80°	2914	4143	5906
85°	1703	4765	5547



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	731.5	5.7
10°-20°	1720.8	13.4
20°-30°	2157.0	16.8
30°-40°	2288.8	17.8
40°-50°	2069.4	16.1
50°-60°	1500.5	11.7
60°-70°	941.6	7.3
70°-80°	623.1	4.9
80°-90°	359.0	2.8
90°-100°	173.9	1.4
100°-110°	120.0	0.9
110°-120°	74.1	0.6
120°-130°	35.9	0.3
130°-140°	16.5	0.1
140°-150°	9.0	0.1
150°-160°	3.9	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
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0°-30°	4609.2	35.9
0°-40°	6898.0	53.8
0°-60°	10467.9	81.6
0°-90°	12391.6	96.6
90°-120°	368.0	2.9
90°-150°	429.4	3.3
90°-180°	433.0	3.4
0°-180°	12825.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8690	8690	8690	8690	8690	
5°	8672	8450	7954	7585	7394	829
15°	8738	7122	5657	5031	4803	2478
25°	8796	5507	3788	3362	3255	4064
35°	8481	3661	2749	2663	2662	5272
45°	6705	2319	1992	2040	2075	5108
55°	3550	1437	1300	1410	1460	3207
65°	1270	834	753	964	1072	1321
75°	392	449	505	785	832	437
85°	69	186	370	514	472	82
90°	0	78	214	302	304	4
95°	3	55	189	256	268	3
105°	7	36	137	182	187	7
115°	9	26	93	116	118	9
125°	10	13	47	60	59	9
135°	8	10	21	32	32	7
145°	10	11	12	19	18	6
155°	10	12	13	14	12	3
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P829849

CATALOG NUMBER: OHBL-15SE-N-UNV-L940-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8689.6	8689.6	8689.6	8689.6	8689.6
2.5°	8671.4	8621.8	8467.1	8372.9	8293.5
5°	8672.3	8449.8	7953.6	7584.7	7393.7
7.5°	8684.7	8190.1	7296.1	6757.7	6547.6
10°	8703.7	7868.4	6682.4	6108.5	5912.4
12.5°	8717.7	7506.1	6142.4	5552.7	5337.7
15°	8738.4	7122.4	5656.9	5030.8	4802.6
17.5°	8757.4	6761.0	5177.2	4523.0	4269.1
20°	8776.5	6371.5	4697.5	4023.5	3814.3
22.5°	8794.7	5960.4	4229.4	3635.6	3492.6
25°	8796.3	5507.2	3787.8	3361.9	3255.2
27.5°	8774.8	5037.4	3429.7	3132.8	3066.6
30°	8737.6	4581.8	3151.8	2967.4	2920.2
32.5°	8645.0	4117.0	2936.8	2807.8	2780.5
35°	8481.2	3661.3	2749.1	2663.0	2662.2
37.5°	8223.2	3256.9	2545.6	2530.7	2548.9
40°	7841.9	2902.9	2352.9	2392.6	2392.6
42.5°	7333.3	2595.2	2178.4	2218.9	2208.2
45°	6704.7	2319.0	1992.3	2040.3	2075.0
47.5°	5976.1	2075.8	1802.1	1894.7	1942.7
50°	5183.8	1844.3	1628.4	1746.7	1801.3
52.5°	4353.5	1630.1	1458.9	1594.5	1638.3
55°	3549.6	1437.4	1300.1	1410.1	1460.5
57.5°	2821.8	1253.8	1144.6	1248.8	1353.0
60°	2195.8	1095.8	998.2	1147.1	1251.3
62.5°	1677.2	955.2	860.9	1052.0	1156.2
65°	1269.5	833.6	752.6	964.3	1071.8
67.5°	956.9	728.6	668.2	900.6	1005.7
70°	718.7	626.9	600.4	860.9	955.2
72.5°	531.0	533.4	546.7	826.2	898.2
75°	392.0	449.1	505.3	784.9	832.0
77.5°	280.4	372.2	468.1	735.2	751.8
80°	194.4	303.5	429.2	669.9	655.8
82.5°	121.6	243.1	394.5	597.9	559.1
85°	68.6	186.1	369.7	514.4	472.2
87.5°	30.6	138.9	323.4	401.1	374.6
90°	0.0	77.7	214.2	301.9	304.3
92.5°	1.7	64.5	197.7	276.2	284.5
95°	3.3	54.6	188.6	256.4	268.0
97.5°	4.1	48.0	177.0	238.2	248.1
100°	5.0	43.0	162.9	219.2	227.4
102.5°	5.8	39.7	149.7	199.3	205.9
105°	6.6	36.4	137.3	181.9	186.9



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CATALOG NUMBER: OHBL-15SE-N-UNV-L940-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	8.3	28.1	103.4	130.7	134.8
115°	9.1	25.6	92.6	115.8	118.3
117.5°	9.9	22.3	81.0	101.7	102.6
120°	9.9	19.8	69.5	86.8	86.8
122.5°	9.9	16.5	57.9	72.0	71.1
125°	9.9	13.2	47.1	59.5	58.7
127.5°	9.1	10.8	38.0	49.6	48.8
130°	9.1	10.8	30.6	42.2	42.2
132.5°	8.3	9.9	24.8	36.4	36.4
135°	8.3	9.9	20.7	32.3	32.3
137.5°	8.3	10.8	17.4	28.1	28.1
140°	8.3	9.9	14.9	24.8	24.8
142.5°	9.1	9.9	13.2	21.5	21.5
145°	9.9	10.8	12.4	19.0	18.2
147.5°	9.9	11.6	12.4	16.5	15.7
150°	9.9	12.4	12.4	14.9	14.1
152.5°	9.9	12.4	12.4	14.1	13.2
155°	9.9	12.4	13.2	14.1	12.4
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°	6.6	33.9	125.7	162.9	168.7
110°	7.4	30.6	115.0	145.6	151.3



(END OF REPORT)