

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: P829990

Luminaire Tested: **OHBL-18SE-N-UNV-L850-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829990
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-18SE-N-UNV-L850-CD
Description: 18000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 5000K LEDS AND NARROW LENS
Light Source: -
Ballast/Driver: -

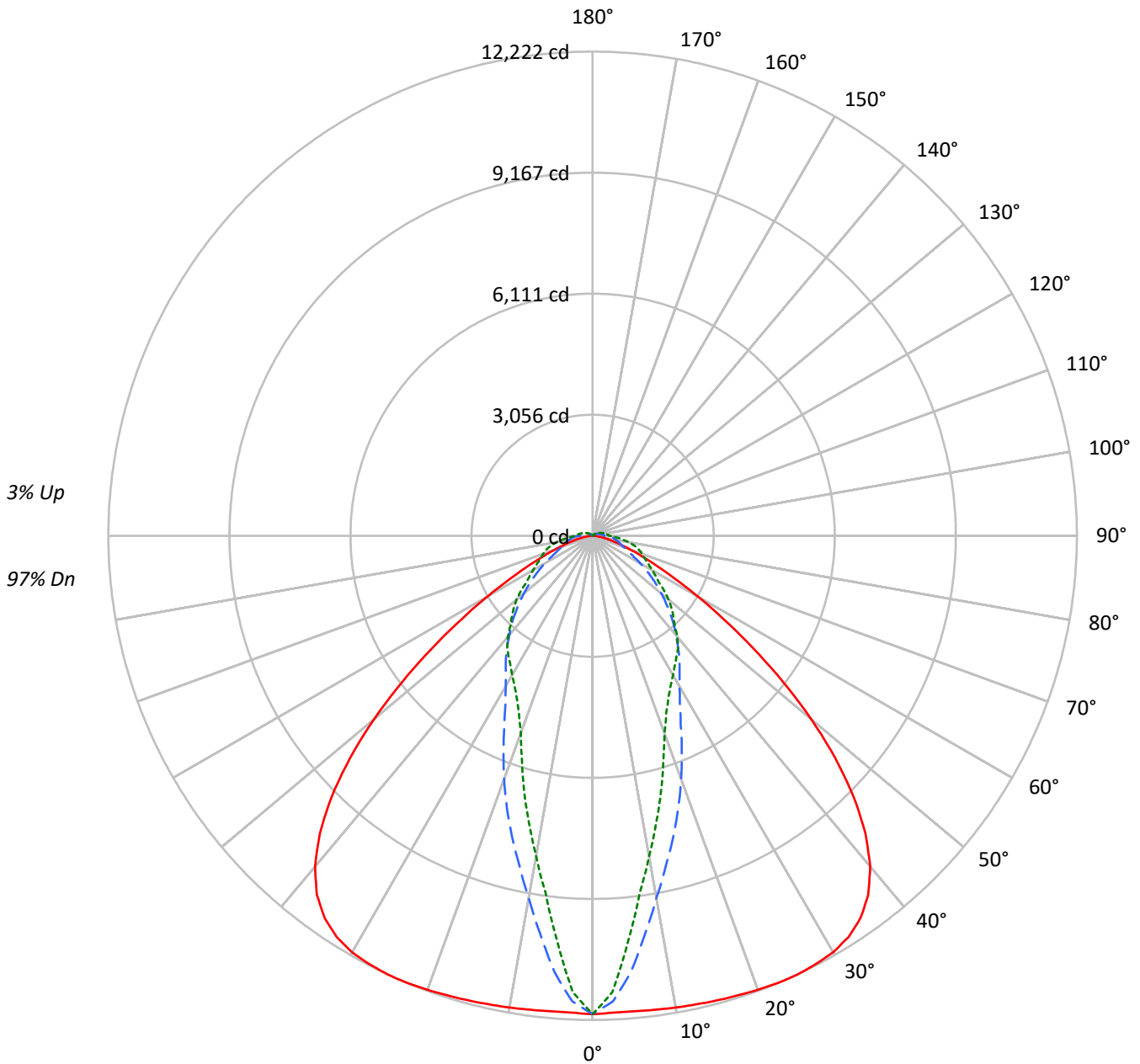
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17820.0 lumens
Efficiency: N/A
Efficacy: 169.7 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 105
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	97																	
1	109	104	100	97	106	102	98	95	97	94	91	92	90	88	88	86	85	85	85	82																	
2	100	93	86	81	97	90	85	80	86	82	78	83	79	75	79	76	73	73	73	71																	
3	92	83	75	69	90	81	74	69	78	72	67	74	70	65	72	67	64	64	64	62																	
4	85	74	66	60	83	73	66	60	70	64	59	67	62	57	65	60	56	56	56	54																	
5	79	67	59	53	77	66	59	53	64	57	52	62	56	51	59	54	50	50	50	48																	
6	74	62	53	47	72	60	53	47	58	52	46	56	50	46	55	49	45	45	45	43																	
7	69	56	48	43	67	55	48	42	54	47	42	52	46	41	50	45	41	41	41	39																	
8	65	52	44	39	63	51	44	39	50	43	38	48	42	38	47	41	37	37	37	35																	
9	61	48	41	35	59	47	40	35	46	40	35	45	39	35	44	38	34	34	34	32																	
10	57	45	37	33	56	44	37	32	43	37	32	42	36	32	41	35	32	32	32	30																	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20622	20622	20622
5°	20580	18780	17461
10°	20812	15819	14001
15°	21219	13529	11491
20°	21815	11439	9295
25°	22569	9469	8144
30°	23350	8157	7566
35°	23836	7434	7208
40°	23428	6715	6838
45°	21553	6068	6331
50°	18184	5361	5942
55°	13817	4696	5288
60°	9683	4027	5062
65°	6513	3468	4956
70°	4448	3255	5199
75°	3087	3357	5555
80°	2125	3718	5719
85°	1243	4651	6000



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1016.4	5.7
10°-20°	2391.0	13.4
20°-30°	2997.0	16.8
30°-40°	3180.2	17.8
40°-50°	2875.4	16.1
50°-60°	2084.9	11.7
60°-70°	1308.4	7.3
70°-80°	865.8	4.9
80°-90°	498.8	2.8
90°-100°	241.6	1.4
100°-110°	166.8	0.9
110°-120°	102.9	0.6
120°-130°	49.8	0.3
130°-140°	22.9	0.1
140°-150°	12.5	0.1
150°-160°	5.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	6404.4	35.9
0°-40°	9584.6	53.8
0°-60°	14544.9	81.6
0°-90°	17217.9	96.6
90°-120°	511.4	2.9
90°-150°	596.7	3.3
90°-180°	602.0	3.4
0°-180°	17820.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12074	12074	12074	12074	12074	
5°	12050	11741	11051	10539	10273	###
15°	12142	9896	7860	6990	6673	3443
25°	12222	7652	5263	4671	4523	5646
35°	11784	5087	3820	3700	3699	7326
45°	9316	3222	2768	2835	2883	7097
55°	4932	1997	1806	1959	2029	4456
65°	1764	1158	1046	1340	1489	1836
75°	545	624	702	1090	1156	607
85°	95	259	514	715	656	114
90°	0	108	298	419	423	6
95°	5	76	262	356	372	4
105°	9	51	191	253	260	9
115°	13	36	129	161	164	12
125°	14	18	66	83	82	12
135°	12	14	29	45	45	9
145°	14	15	17	26	25	8
155°	14	17	18	20	17	4
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P829990

CATALOG NUMBER: OHBL-18SE-N-UNV-L850-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12074.0	12074.0	12074.0	12074.0	12074.0
2.5°	12048.7	11979.8	11764.9	11633.9	11523.6
5°	12049.9	11740.8	11051.3	10538.8	10273.3
7.5°	12067.1	11379.9	10137.7	9389.6	9097.7
10°	12093.5	10932.9	9285.0	8487.5	8215.2
12.5°	12113.1	10429.6	8534.7	7715.3	7416.5
15°	12141.8	9896.4	7860.1	6990.2	6673.0
17.5°	12168.2	9394.2	7193.6	6284.6	5931.9
20°	12194.7	8853.0	6527.1	5590.6	5299.8
22.5°	12219.9	8281.8	5876.7	5051.6	4852.8
25°	12222.2	7652.1	5263.1	4671.2	4523.0
27.5°	12192.4	6999.4	4765.5	4352.9	4261.0
30°	12140.7	6366.2	4379.4	4123.1	4057.6
32.5°	12011.9	5720.4	4080.6	3901.3	3863.4
35°	11784.4	5087.2	3819.7	3700.2	3699.1
37.5°	11425.9	4525.3	3537.0	3516.4	3541.6
40°	10896.1	4033.5	3269.3	3324.5	3324.5
42.5°	10189.4	3606.0	3026.8	3083.1	3068.2
45°	9316.1	3222.2	2768.3	2834.9	2883.2
47.5°	8303.7	2884.3	2504.0	2632.7	2699.3
50°	7202.8	2562.6	2262.7	2427.0	2502.8
52.5°	6049.1	2265.0	2027.1	2215.5	2276.4
55°	4932.1	1997.2	1806.4	1959.3	2029.4
57.5°	3920.9	1742.1	1590.4	1735.2	1880.0
60°	3051.0	1522.6	1387.0	1593.9	1738.6
62.5°	2330.5	1327.3	1196.3	1461.7	1606.5
65°	1763.9	1158.3	1045.7	1339.9	1489.3
67.5°	1329.6	1012.4	928.5	1251.4	1397.4
70°	998.6	871.0	834.3	1196.3	1327.3
72.5°	737.7	741.2	759.6	1148.0	1248.0
75°	544.7	624.0	702.1	1090.5	1156.0
77.5°	389.6	517.1	650.4	1021.6	1044.6
80°	270.0	421.7	596.4	930.8	911.3
82.5°	168.9	337.8	548.1	830.8	776.8
85°	95.4	258.6	513.7	714.8	656.2
87.5°	42.5	193.1	449.3	557.3	520.6
90°	0.0	108.0	297.6	419.4	422.9
92.5°	2.3	89.6	274.6	383.8	395.3
95°	4.6	75.8	262.0	356.2	372.3
97.5°	5.7	66.7	245.9	331.0	344.7
100°	6.9	59.8	226.4	304.5	316.0
102.5°	8.0	55.2	208.0	276.9	286.1
105°	9.2	50.6	190.8	252.8	259.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	11.5	39.1	143.6	181.6	187.3
115°	12.6	35.6	128.7	160.9	164.3
117.5°	13.8	31.0	112.6	141.3	142.5
120°	13.8	27.6	96.5	120.7	120.7
122.5°	13.8	23.0	80.4	100.0	98.8
125°	13.8	18.4	65.5	82.7	81.6
127.5°	12.6	14.9	52.9	68.9	67.8
130°	12.6	14.9	42.5	58.6	58.6
132.5°	11.5	13.8	34.5	50.6	50.6
135°	11.5	13.8	28.7	44.8	44.8
137.5°	11.5	14.9	24.1	39.1	39.1
140°	11.5	13.8	20.7	34.5	34.5
142.5°	12.6	13.8	18.4	29.9	29.9
145°	13.8	14.9	17.2	26.4	25.3
147.5°	13.8	16.1	17.2	23.0	21.8
150°	13.8	17.2	17.2	20.7	19.5
152.5°	13.8	17.2	17.2	19.5	18.4
155°	13.8	17.2	18.4	19.5	17.2
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°	9.2	47.1	174.7	226.4	234.4
110°	10.3	42.5	159.7	202.2	210.3



(END OF REPORT)