

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: P829774

Luminaire Tested: **OHBL-12SE-N-UNV-L850-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829774
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-12SE-N-UNV-L850-CD
Description: 12000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 5000K LEDS AND NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

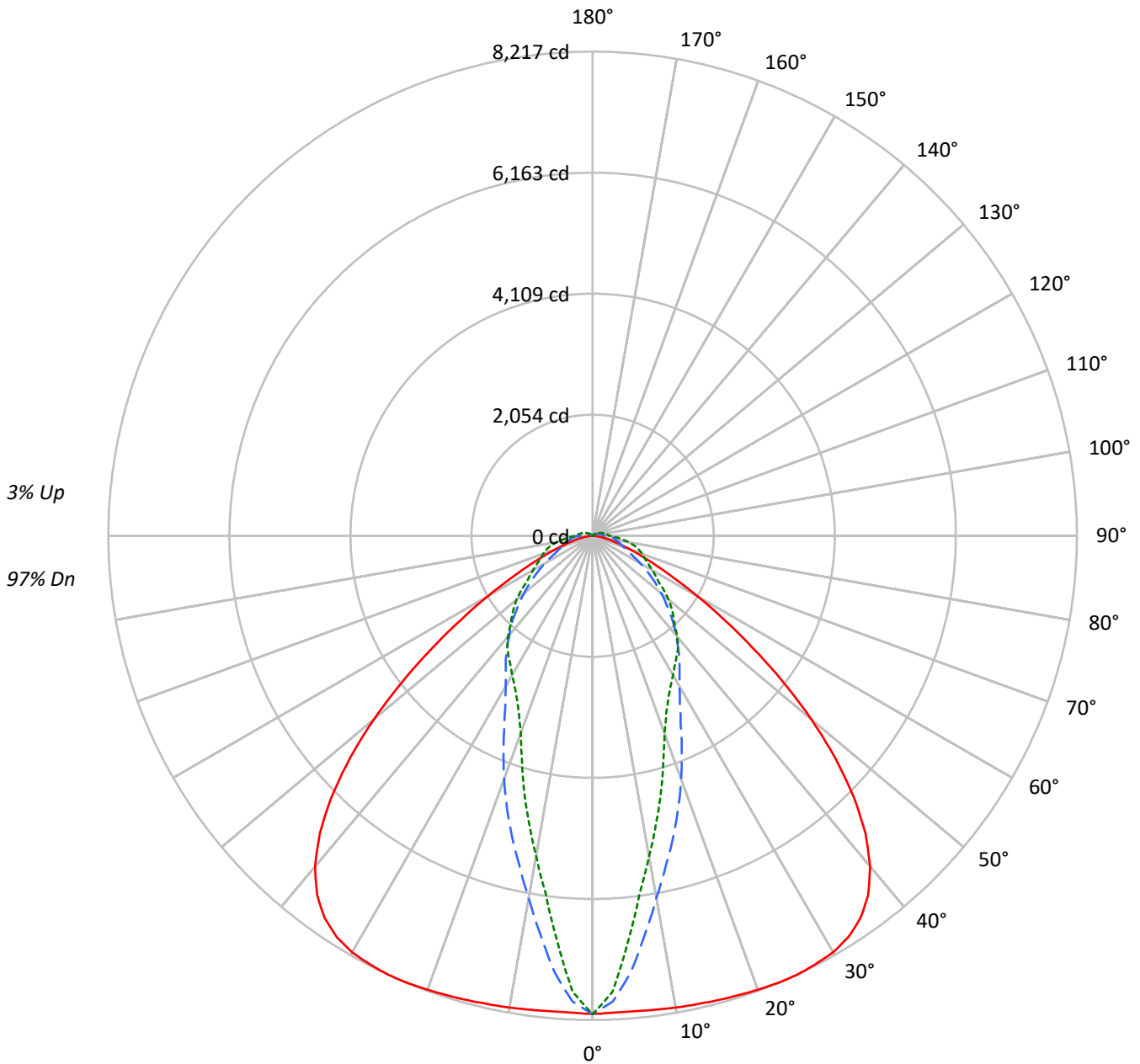
Lumens per Lamp: N/A
Luminaire Lumens: 11980.0 lumens
Efficiency: N/A
Efficacy: 171.1 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78
Luminous Opening: Rectangular w/ Sides (W: 0.88' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 70
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				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°	26408	26408	26408
5°	26354	23916	22185
10°	26651	20035	17652
15°	27172	17040	14376
20°	27935	14327	11536
25°	28901	11789	10024
30°	29900	10094	9232
35°	30522	9137	8714
40°	30000	8194	8184
45°	27599	7344	7491
50°	23285	6428	6940
55°	17693	5569	6083
60°	12399	4713	5719
65°	8341	3992	5472
70°	5696	3665	5571
75°	3953	3664	5710
80°	2720	3870	5517
85°	1591	4451	5182



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	683.3	5.7
10°-20°	1607.4	13.4
20°-30°	2014.9	16.8
30°-40°	2138.0	17.8
40°-50°	1933.1	16.1
50°-60°	1401.6	11.7
60°-70°	879.6	7.3
70°-80°	582.1	4.9
80°-90°	335.3	2.8
90°-100°	162.5	1.4
100°-110°	112.1	0.9
110°-120°	69.2	0.6
120°-130°	33.5	0.3
130°-140°	15.4	0.1
140°-150°	8.4	0.1
150°-160°	3.7	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
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0°-30°	4305.5	35.9
0°-40°	6443.5	53.8
0°-60°	9778.2	81.6
0°-90°	11575.2	96.6
90°-120°	343.8	2.9
90°-150°	401.2	3.3
90°-180°	405.0	3.4
0°-180°	11980.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8117	8117	8117	8117	8117	
5°	8101	7893	7430	7085	6906	774
15°	8163	6653	5284	4699	4486	2315
25°	8217	5144	3538	3140	3041	3796
35°	7922	3420	2568	2488	2487	4925
45°	6263	2166	1861	1906	1938	4771
55°	3316	1343	1214	1317	1364	2996
65°	1186	779	703	901	1001	1234
75°	366	420	472	733	777	408
85°	64	174	345	480	441	77
90°	0	73	200	282	284	4
95°	3	51	176	240	250	3
105°	6	34	128	170	175	6
115°	8	24	86	108	110	8
125°	9	12	44	56	55	8
135°	8	9	19	30	30	6
145°	9	10	12	18	17	6
155°	9	12	12	13	12	3
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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CATALOG NUMBER: OHBL-12SE-N-UNV-L850-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8117.1	8117.1	8117.1	8117.1	8117.1
2.5°	8100.1	8053.7	7909.3	7821.2	7747.0
5°	8100.9	7893.1	7429.5	7085.0	6906.5
7.5°	8112.5	7650.5	6815.4	6312.4	6116.2
10°	8130.2	7350.0	6242.1	5706.0	5522.9
12.5°	8143.4	7011.6	5737.7	5186.8	4986.0
15°	8162.7	6653.1	5284.2	4699.4	4486.1
17.5°	8180.4	6315.5	4836.1	4225.0	3987.9
20°	8198.2	5951.7	4388.0	3758.4	3563.0
22.5°	8215.2	5567.7	3950.8	3396.1	3262.4
25°	8216.7	5144.4	3538.2	3140.4	3040.7
27.5°	8196.7	4705.5	3203.7	2926.4	2864.6
30°	8161.9	4279.9	2944.2	2771.9	2727.8
32.5°	8075.4	3845.7	2743.3	2622.8	2597.3
35°	7922.4	3420.0	2567.9	2487.6	2486.8
37.5°	7681.4	3042.3	2377.9	2364.0	2381.0
40°	7325.2	2711.6	2197.9	2235.0	2235.0
42.5°	6850.1	2424.2	2034.9	2072.7	2062.7
45°	6263.0	2166.2	1861.1	1905.9	1938.3
47.5°	5582.4	1939.1	1683.4	1769.9	1814.7
50°	4842.3	1722.8	1521.1	1631.6	1682.6
52.5°	4066.7	1522.7	1362.8	1489.5	1530.4
55°	3315.7	1342.7	1214.4	1317.2	1364.3
57.5°	2635.9	1171.2	1069.2	1166.5	1263.9
60°	2051.1	1023.6	932.5	1071.5	1168.9
62.5°	1566.7	892.3	804.2	982.7	1080.0
65°	1185.9	778.7	703.0	900.8	1001.2
67.5°	893.8	680.6	624.2	841.3	939.4
70°	671.3	585.6	560.9	804.2	892.3
72.5°	496.0	498.3	510.6	771.8	839.0
75°	366.2	419.5	472.0	733.1	777.2
77.5°	261.9	347.6	437.3	686.8	702.2
80°	181.5	283.5	400.9	625.8	612.6
82.5°	113.6	227.1	368.5	558.5	522.2
85°	64.1	173.8	345.3	480.5	441.1
87.5°	28.6	129.8	302.1	374.7	350.0
90°	0.0	72.6	200.1	282.0	284.3
92.5°	1.5	60.3	184.6	258.0	265.8
95°	3.1	51.0	176.1	239.5	250.3
97.5°	3.9	44.8	165.3	222.5	231.8
100°	4.6	40.2	152.2	204.7	212.4
102.5°	5.4	37.1	139.8	186.2	192.4
105°	6.2	34.0	128.2	170.0	174.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	7.7	26.3	96.6	122.1	125.9
115°	8.5	23.9	86.5	108.2	110.5
117.5°	9.3	20.9	75.7	95.0	95.8
120°	9.3	18.5	64.9	81.1	81.1
122.5°	9.3	15.5	54.1	67.2	66.4
125°	9.3	12.4	44.0	55.6	54.9
127.5°	8.5	10.0	35.5	46.4	45.6
130°	8.5	10.0	28.6	39.4	39.4
132.5°	7.7	9.3	23.2	34.0	34.0
135°	7.7	9.3	19.3	30.1	30.1
137.5°	7.7	10.0	16.2	26.3	26.3
140°	7.7	9.3	13.9	23.2	23.2
142.5°	8.5	9.3	12.4	20.1	20.1
145°	9.3	10.0	11.6	17.8	17.0
147.5°	9.3	10.8	11.6	15.5	14.7
150°	9.3	11.6	11.6	13.9	13.1
152.5°	9.3	11.6	11.6	13.1	12.4
155°	9.3	11.6	12.4	13.1	11.6
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°	6.2	31.7	117.4	152.2	157.6
110°	7.0	28.6	107.4	136.0	141.4



(END OF REPORT)