

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: P829967

Luminaire Tested: **OHBL-18SE-MCL-UNV-L930-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829967
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-18SE-MCL-UNV-L930-CD
Description: 18000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 3000K LEDS AND MEDIUM CLEAR LENS
Light Source: -
Ballast/Driver: -

Summary

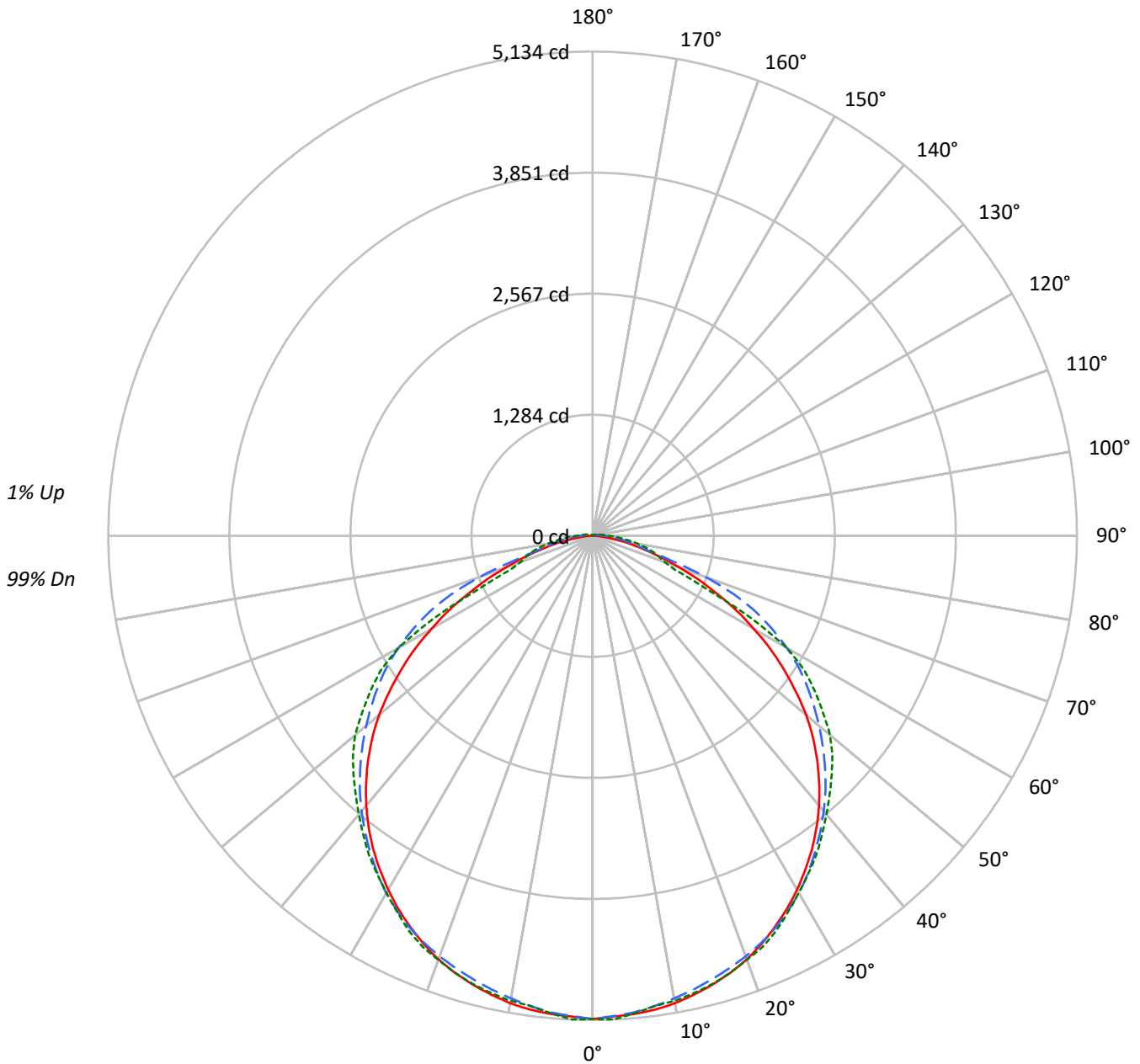
Lumens per Lamp: N/A
Luminaire Lumens: 14481.0 lumens
Efficiency: N/A
Efficacy: 137.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

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	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°	8751	8751	8751
5°	8694	8620	8636
10°	8662	8485	8535
15°	8607	8384	8472
20°	8552	8318	8391
25°	8449	8252	8311
30°	8336	8151	8148
35°	8202	7992	8055
40°	8028	7827	7930
45°	7786	7637	7870
50°	7458	7421	7798
55°	6938	7208	7497
60°	6256	6898	6919
65°	5367	6329	4376
70°	4323	4931	3163
75°	3241	2918	3197
80°	2256	2415	3031
85°	1284	2193	2804



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	483.1	3.3
10°-20°	1385.3	9.6
20°-30°	2115.7	14.6
30°-40°	2567.1	17.7
40°-50°	2690.6	18.6
50°-60°	2438.1	16.8
60°-70°	1634.6	11.3
70°-80°	734.0	5.1
80°-90°	266.4	1.8
90°-100°	80.2	0.6
100°-110°	37.8	0.3
110°-120°	19.0	0.1
120°-130°	10.5	0.1
130°-140°	7.2	0.0
140°-150°	4.8	0.0
150°-160°	3.6	0.0
160°-170°	2.3	0.0
170°-180°	0.7	0.0
0°-30°	3984.1	27.5
0°-40°	6551.2	45.2
0°-60°	11679.9	80.7
0°-90°	14314.9	98.9
90°-120°	137.0	0.9
90°-150°	159.5	1.1
90°-180°	166.0	1.1
0°-180°	14481.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5123	5123	5123	5123	5123	
5°	5090	5108	5072	5088	5081	484
15°	4925	4906	4871	4914	4920	1390
25°	4575	4555	4587	4629	4616	2109
35°	4055	4065	4106	4150	4134	2535
45°	3366	3420	3484	3573	3584	2593
55°	2476	2596	2773	2884	2877	2211
65°	1454	1681	1908	1610	1315	1448
75°	572	830	610	624	665	625
85°	98	189	242	293	307	120
90°	1	63	125	157	164	6
95°	1	39	86	104	107	1
105°	3	17	42	51	53	3
115°	6	9	22	27	29	5
125°	5	6	13	16	16	5
135°	7	7	8	12	13	5
145°	7	7	7	8	9	4
155°	7	8	8	8	7	3
165°	8	8	8	8	8	2
175°	8	8	7	7	7	1
180°	7	7	7	7	7	



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CATALOG NUMBER: OHBL-18SE-MCL-UNV-L930-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5123.4	5123.4	5123.4	5123.4	5123.4
2.5°	5102.6	5124.1	5097.5	5126.4	5133.8
5°	5090.1	5107.8	5072.3	5087.8	5081.2
7.5°	5067.1	5073.0	5030.8	5043.4	5030.0
10°	5033.0	5030.0	4980.4	5004.9	5007.8
12.5°	4982.6	4973.7	4929.3	4966.3	4967.1
15°	4924.9	4905.6	4870.8	4913.7	4919.7
17.5°	4858.2	4833.0	4810.0	4865.6	4856.7
20°	4780.4	4750.8	4746.3	4807.1	4784.8
22.5°	4684.1	4661.1	4671.5	4729.3	4715.2
25°	4575.2	4555.2	4587.0	4629.3	4615.9
27.5°	4460.4	4448.5	4484.8	4517.4	4491.5
30°	4334.4	4327.8	4375.9	4402.6	4370.0
32.5°	4197.4	4199.6	4245.5	4281.8	4251.5
35°	4055.2	4064.8	4106.3	4150.0	4133.7
37.5°	3898.8	3920.3	3961.8	4011.4	3994.4
40°	3733.6	3764.8	3810.7	3870.7	3855.1
42.5°	3555.1	3594.4	3653.6	3720.3	3718.8
45°	3365.5	3420.3	3484.0	3572.9	3584.0
47.5°	3168.4	3229.9	3310.6	3429.2	3446.2
50°	2954.3	3031.4	3132.1	3274.3	3284.7
52.5°	2715.8	2821.0	2954.3	3090.6	3078.0
55°	2476.5	2595.8	2772.8	2883.9	2877.3
57.5°	2238.0	2372.0	2586.9	2666.1	2665.4
60°	1971.3	2140.9	2375.8	2435.8	2376.5
62.5°	1724.6	1906.8	2150.5	2106.8	1903.9
65°	1453.5	1680.9	1908.3	1610.5	1314.9
67.5°	1212.7	1449.8	1620.9	1103.1	944.5
70°	970.5	1232.0	1263.8	818.6	807.5
72.5°	755.6	1034.2	871.9	700.8	736.4
75°	571.9	829.7	610.4	624.5	665.2
77.5°	417.1	637.1	474.9	547.5	580.8
80°	286.7	451.1	387.4	460.0	483.0
82.5°	180.0	297.8	310.4	370.4	394.1
85°	98.5	188.9	242.2	292.6	306.7
87.5°	40.7	114.1	185.2	225.9	237.8
90°	0.7	63.0	125.2	157.1	164.5
92.5°	0.7	48.2	102.2	126.7	131.9
95°	0.7	39.3	85.9	104.5	107.4
97.5°	1.5	31.1	71.9	86.7	89.6
100°	2.2	25.9	60.0	72.6	74.8
102.5°	3.0	20.7	50.4	60.7	63.0
105°	3.0	17.0	42.2	51.1	53.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	5.2	10.4	25.2	31.9	33.3
115°	5.9	8.9	21.5	27.4	28.9
117.5°	5.9	7.4	18.5	23.0	24.4
120°	5.9	6.7	16.3	20.0	20.7
122.5°	5.9	5.9	14.1	17.8	18.5
125°	5.2	5.9	13.3	15.6	16.3
127.5°	5.9	5.9	11.9	14.1	14.8
130°	5.9	6.7	10.4	13.3	13.3
132.5°	6.7	7.4	9.6	12.6	12.6
135°	6.7	7.4	8.1	11.9	12.6
137.5°	7.4	7.4	7.4	11.1	11.9
140°	7.4	7.4	6.7	9.6	10.4
142.5°	6.7	7.4	6.7	8.9	9.6
145°	6.7	7.4	7.4	8.1	8.9
147.5°	7.4	7.4	7.4	7.4	8.1
150°	7.4	7.4	7.4	7.4	7.4
152.5°	7.4	7.4	7.4	7.4	7.4
155°	7.4	8.1	8.1	8.1	7.4
157.5°	7.4	8.1	8.1	8.1	8.1
160°	7.4	8.1	8.1	8.1	8.1
162.5°	8.1	8.1	8.1	8.1	8.1
165°	8.1	8.1	8.1	8.1	8.1
167.5°	8.1	8.9	8.1	8.1	8.1
170°	8.1	8.1	8.1	7.4	7.4
172.5°	8.1	8.1	8.1	7.4	7.4
175°	8.1	8.1	7.4	6.7	6.7
177.5°	8.9	8.1	7.4	6.7	5.9
180°	7.4	7.4	7.4	7.4	7.4



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	3.7	14.1	36.3	43.7	45.2
110°	4.4	11.9	30.4	37.0	38.5



(END OF REPORT)