

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: P829895

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829895
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-18HE-MCL-UNV-L930-CD
Description: 18000 LUMEN OHBL HE LED LUMINAIRE WITH 90CRI, 3000K LEDS AND MEDIUM CLEAR LENS
Light Source: -
Ballast/Driver: -

Summary

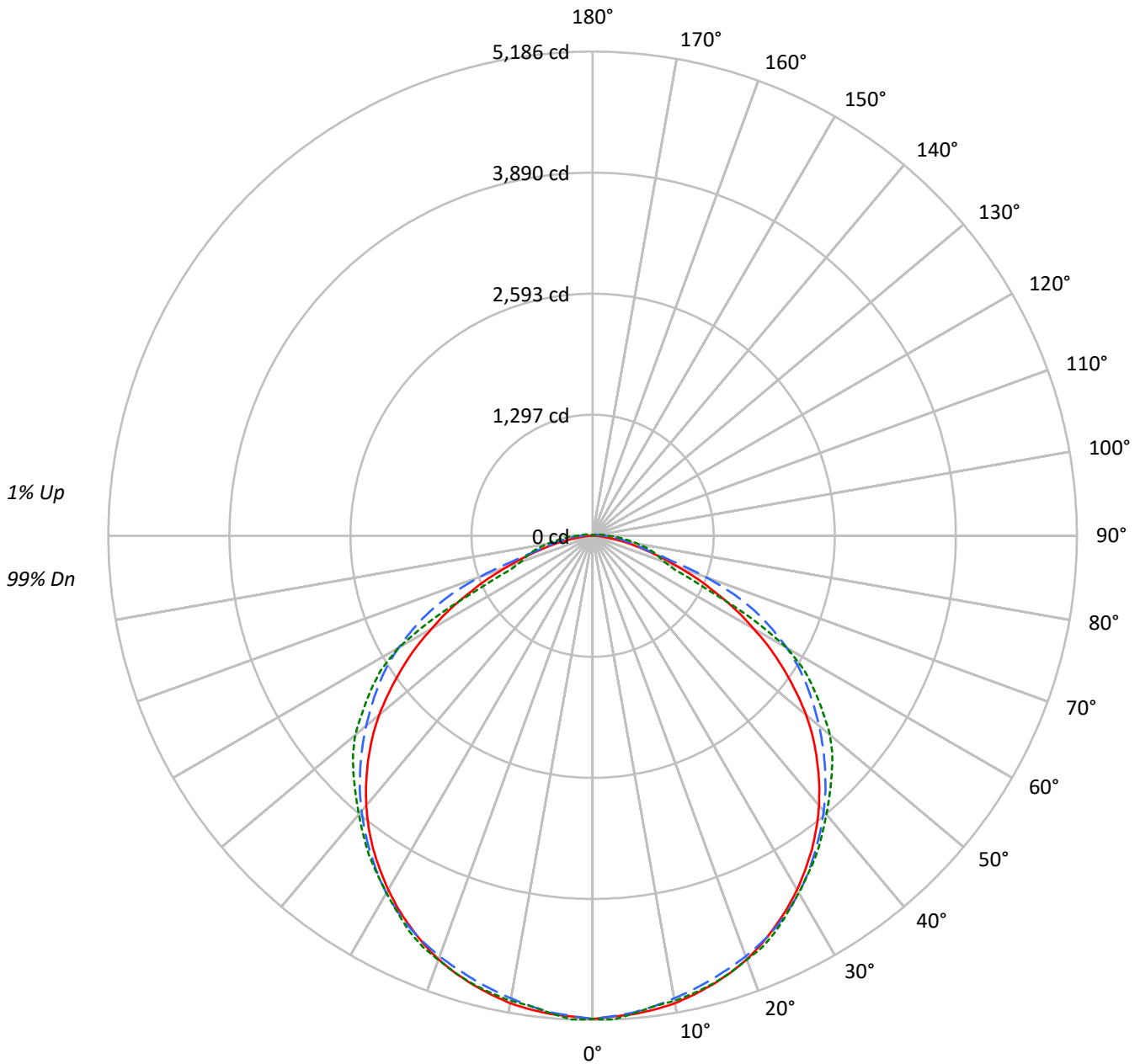
Lumens per Lamp: N/A
Luminaire Lumens: 14627.0 lumens
Efficiency: N/A
Efficacy: 142.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 103
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°	8839	8839	8839
5°	8781	8707	8723
10°	8749	8571	8621
15°	8693	8468	8558
20°	8638	8402	8476
25°	8534	8336	8395
30°	8420	8233	8230
35°	8285	8072	8136
40°	8109	7906	8010
45°	7864	7714	7949
50°	7533	7496	7877
55°	7008	7281	7573
60°	6319	6968	6989
65°	5421	6393	4420
70°	4366	4981	3195
75°	3274	2948	3229
80°	2279	2439	3062
85°	1297	2215	2833



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	488.0	3.3
10°-20°	1399.2	9.6
20°-30°	2137.1	14.6
30°-40°	2593.0	17.7
40°-50°	2717.7	18.6
50°-60°	2462.7	16.8
60°-70°	1651.1	11.3
70°-80°	741.4	5.1
80°-90°	269.0	1.8
90°-100°	81.0	0.6
100°-110°	38.2	0.3
110°-120°	19.2	0.1
120°-130°	10.6	0.1
130°-140°	7.3	0.0
140°-150°	4.9	0.0
150°-160°	3.6	0.0
160°-170°	2.3	0.0
170°-180°	0.7	0.0
0°-30°	4024.3	27.5
0°-40°	6617.3	45.2
0°-60°	11797.6	80.7
0°-90°	14459.2	98.9
90°-120°	138.4	0.9
90°-150°	161.1	1.1
90°-180°	168.0	1.1
0°-180°	14627.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5175	5175	5175	5175	5175	
5°	5141	5159	5123	5139	5132	489
15°	4974	4955	4920	4963	4969	1405
25°	4621	4601	4633	4676	4662	2130
35°	4096	4106	4148	4192	4175	2560
45°	3399	3455	3519	3609	3620	2619
55°	2502	2622	2801	2913	2906	2233
65°	1468	1698	1928	1627	1328	1463
75°	578	838	617	631	672	631
85°	100	191	245	296	310	121
90°	1	64	126	159	166	6
95°	1	40	87	106	108	1
105°	3	17	43	52	54	3
115°	6	9	22	28	29	6
125°	5	6	14	16	16	5
135°	7	8	8	12	13	5
145°	7	8	8	8	9	4
155°	8	8	8	8	8	3
165°	8	8	8	8	8	2
175°	8	8	8	7	7	1
180°	8	8	8	8	8	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5175.0	5175.0	5175.0	5175.0	<i>5175.0</i>
2.5°	<i>5154.1</i>	<i>5175.8</i>	<i>5148.9</i>	<i>5178.0</i>	<i>5185.5</i>
5°	5141.4	5159.3	5123.4	5139.1	<i>5132.4</i>
7.5°	5118.2	5124.2	5081.5	5094.2	<i>5080.8</i>
10°	5083.8	5080.8	5030.6	5055.3	<i>5058.3</i>
12.5°	5032.9	5023.9	4979.0	5016.4	<i>5017.2</i>
15°	4974.5	4955.1	4919.9	4963.3	<i>4969.3</i>
17.5°	4907.2	4881.7	4858.5	4914.6	<i>4905.7</i>
20°	4828.6	4798.7	4794.2	4855.5	<i>4833.1</i>
22.5°	4731.3	4708.1	4718.6	4777.0	<i>4762.7</i>
25°	4621.3	4601.1	4633.3	4675.9	<i>4662.5</i>
27.5°	4505.3	4493.4	4530.0	4563.0	<i>4536.8</i>
30°	4378.1	4371.4	4420.0	4447.0	<i>4414.1</i>
32.5°	4239.7	4242.0	4288.3	4325.0	<i>4294.3</i>
35°	4096.0	4105.8	4147.7	4191.8	<i>4175.4</i>
37.5°	3938.2	3959.9	4001.8	4051.9	<i>4034.7</i>
40°	3771.3	3802.7	3849.1	3909.7	<i>3894.0</i>
42.5°	3591.0	3630.6	3690.5	3757.8	<i>3756.3</i>
45°	3399.4	3454.8	3519.1	3608.9	<i>3620.1</i>
47.5°	3200.4	3262.5	3344.0	3463.7	<i>3481.0</i>
50°	2984.1	3061.9	3163.7	3307.4	<i>3317.8</i>
52.5°	2743.2	2849.4	2984.1	3121.8	<i>3109.1</i>
55°	2501.5	2621.9	2800.8	2913.0	<i>2906.3</i>
57.5°	2260.5	2396.0	2613.0	2693.0	<i>2692.3</i>
60°	1991.2	2162.5	2399.7	2460.3	<i>2400.5</i>
62.5°	1742.0	1926.1	2172.2	2128.1	<i>1923.1</i>
65°	1468.1	1697.8	1927.5	1626.7	<i>1328.2</i>
67.5°	1224.9	1464.4	1637.2	1114.2	<i>954.0</i>
70°	980.2	1244.4	1276.6	826.8	<i>815.6</i>
72.5°	763.2	1044.6	880.7	707.9	<i>743.8</i>
75°	577.7	838.1	616.6	630.8	<i>671.9</i>
77.5°	421.3	643.5	479.6	553.0	<i>586.6</i>
80°	289.6	455.7	391.3	464.7	<i>487.9</i>
82.5°	181.8	300.8	313.5	374.1	<i>398.1</i>
85°	99.5	190.8	244.7	295.6	<i>309.8</i>
87.5°	41.2	115.2	187.1	228.2	<i>240.2</i>
90°	0.7	63.6	126.5	158.6	<i>166.1</i>
92.5°	0.7	48.6	103.3	128.0	<i>133.2</i>
95°	0.7	39.7	86.8	105.5	<i>108.5</i>
97.5°	1.5	31.4	72.6	87.5	<i>90.5</i>
100°	2.2	26.2	60.6	73.3	<i>75.6</i>
102.5°	3.0	21.0	50.9	61.4	<i>63.6</i>
105°	3.0	17.2	42.7	51.6	<i>53.9</i>



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	5.2	10.5	25.4	32.2	33.7
115°	6.0	9.0	21.7	27.7	29.2
117.5°	6.0	7.5	18.7	23.2	24.7
120°	6.0	6.7	16.5	20.2	21.0
122.5°	6.0	6.0	14.2	18.0	18.7
125°	5.2	6.0	13.5	15.7	16.5
127.5°	6.0	6.0	12.0	14.2	15.0
130°	6.0	6.7	10.5	13.5	13.5
132.5°	6.7	7.5	9.7	12.7	12.7
135°	6.7	7.5	8.2	12.0	12.7
137.5°	7.5	7.5	7.5	11.2	12.0
140°	7.5	7.5	6.7	9.7	10.5
142.5°	6.7	7.5	6.7	9.0	9.7
145°	6.7	7.5	7.5	8.2	9.0
147.5°	7.5	7.5	7.5	7.5	8.2
150°	7.5	7.5	7.5	7.5	7.5
152.5°	7.5	7.5	7.5	7.5	7.5
155°	7.5	8.2	8.2	8.2	7.5
157.5°	7.5	8.2	8.2	8.2	8.2
160°	7.5	8.2	8.2	8.2	8.2
162.5°	8.2	8.2	8.2	8.2	8.2
165°	8.2	8.2	8.2	8.2	8.2
167.5°	8.2	9.0	8.2	8.2	8.2
170°	8.2	8.2	8.2	7.5	7.5
172.5°	8.2	8.2	8.2	7.5	7.5
175°	8.2	8.2	7.5	6.7	6.7
177.5°	9.0	8.2	7.5	6.7	6.0
180°	7.5	7.5	7.5	7.5	7.5



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	3.7	14.2	36.7	44.1	45.6
110°	4.5	12.0	30.7	37.4	38.9



(END OF REPORT)