

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: P829897

Luminaire Tested: **OHBL-18HE-MCL-UNV-L940-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829897
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-L940-CD
Description: 18000 LUMEN OHBL HE LED LUMINAIRE WITH 90CRI, 4000K LEDS AND MEDIUM CLEAR LENS
Light Source: -
Ballast/Driver: -

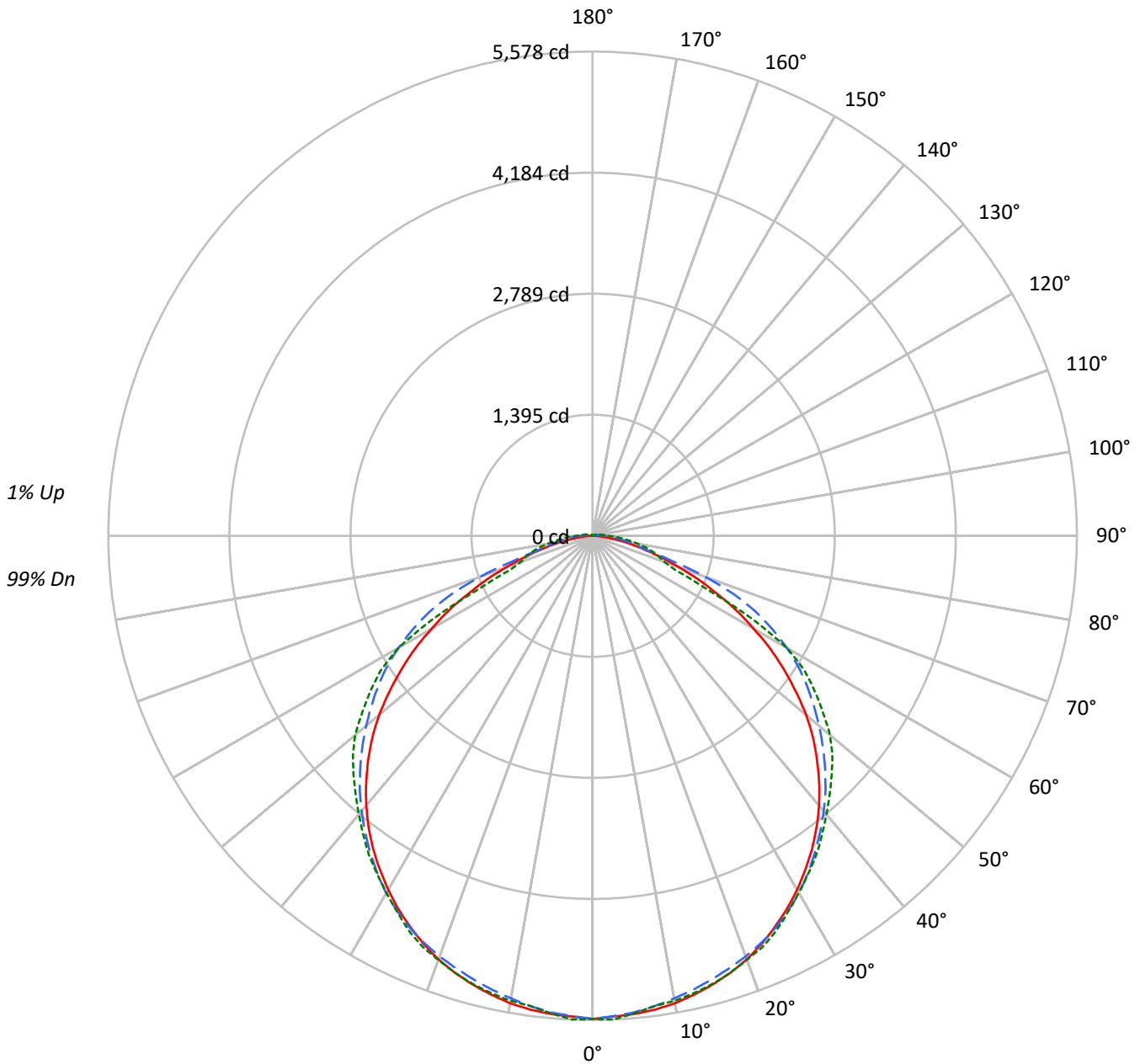
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15733.0 lumens
Efficiency: N/A
Efficacy: 152.7 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°	9507	9507	9507
5°	9445	9365	9383
10°	9411	9219	9273
15°	9351	9109	9205
20°	9291	9038	9117
25°	9179	8966	9030
30°	9057	8856	8852
35°	8911	8683	8751
40°	8722	8504	8615
45°	8459	8298	8550
50°	8103	8063	8473
55°	7537	7831	8145
60°	6797	7495	7518
65°	5831	6876	4754
70°	4697	5357	3437
75°	3521	3171	3473
80°	2451	2624	3294
85°	1394	2383	3047



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	524.9	3.3
10°-20°	1505.0	9.6
20°-30°	2298.7	14.6
30°-40°	2789.1	17.7
40°-50°	2923.2	18.6
50°-60°	2648.9	16.8
60°-70°	1776.0	11.3
70°-80°	797.5	5.1
80°-90°	289.4	1.8
90°-100°	87.1	0.6
100°-110°	41.1	0.3
110°-120°	20.6	0.1
120°-130°	11.4	0.1
130°-140°	7.8	0.0
140°-150°	5.2	0.0
150°-160°	3.9	0.0
160°-170°	2.5	0.0
170°-180°	0.8	0.0
0°-30°	4328.6	27.5
0°-40°	7117.6	45.2
0°-60°	12689.7	80.7
0°-90°	15552.5	98.9
90°-120°	148.8	0.9
90°-150°	173.2	1.1
90°-180°	180.0	1.1
0°-180°	15733.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5566	5566	5566	5566	5566	
5°	5530	5549	5511	5528	5520	526
15°	5351	5330	5292	5339	5345	1511
25°	4971	4949	4984	5030	5015	2291
35°	4406	4416	4461	4509	4491	2754
45°	3656	3716	3785	3882	3894	2817
55°	2691	2820	3013	3133	3126	2402
65°	1579	1826	2073	1750	1429	1573
75°	621	901	663	678	723	679
85°	107	205	263	318	333	131
90°	1	68	136	171	179	6
95°	1	43	93	114	117	1
105°	3	18	46	56	58	4
115°	6	10	23	30	31	6
125°	6	6	14	17	18	6
135°	7	8	9	13	14	6
145°	7	8	8	9	10	5
155°	8	9	9	9	8	4
165°	9	9	9	9	9	2
175°	9	9	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°	5566.3	5566.3	5566.3	5566.3	5566.3
2.5°	5543.8	5567.2	5538.2	5569.6	5577.6
5°	5530.1	5549.4	5510.8	5527.7	5520.5
7.5°	5505.2	5511.6	5465.7	5479.4	5464.9
10°	5468.2	5464.9	5411.0	5437.6	5440.8
12.5°	5413.4	5403.8	5355.5	5395.7	5396.5
15°	5350.6	5329.7	5291.9	5338.6	5345.0
17.5°	5278.2	5250.8	5225.9	5286.3	5276.6
20°	5193.7	5161.5	5156.7	5222.7	5198.5
22.5°	5089.1	5064.1	5075.4	5138.2	5122.9
25°	4970.8	4949.0	4983.6	5029.5	5015.0
27.5°	4846.0	4833.1	4872.6	4908.0	4879.8
30°	4709.2	4701.9	4754.3	4783.2	4747.8
32.5°	4560.3	4562.7	4612.6	4652.0	4619.0
35°	4405.8	4416.2	4461.3	4508.8	4491.1
37.5°	4235.9	4259.3	4304.3	4358.3	4339.8
40°	4056.4	4090.3	4140.2	4205.3	4188.4
42.5°	3862.5	3905.1	3969.5	4042.0	4040.4
45°	3656.4	3716.0	3785.2	3881.8	3893.9
47.5°	3442.3	3509.1	3596.9	3725.7	3744.2
50°	3209.7	3293.4	3402.9	3557.4	3568.7
52.5°	2950.6	3064.9	3209.7	3357.8	3344.2
55°	2690.6	2820.2	3012.6	3133.3	3126.0
57.5°	2431.5	2577.1	2810.5	2896.7	2895.9
60°	2141.7	2326.0	2581.2	2646.3	2582.0
62.5°	1873.7	2071.7	2336.5	2289.0	2068.5
65°	1579.1	1826.2	2073.3	1749.7	1428.6
67.5°	1317.5	1575.1	1761.0	1198.4	1026.2
70°	1054.4	1338.5	1373.1	889.4	877.3
72.5°	820.9	1123.6	947.3	761.4	800.0
75°	621.3	901.4	663.2	678.5	722.8
77.5°	453.1	692.2	515.9	594.8	631.0
80°	311.5	490.2	420.9	499.8	524.8
82.5°	195.6	323.6	337.2	402.4	428.2
85°	107.0	205.2	263.2	317.9	333.2
87.5°	44.3	123.9	201.2	245.5	258.4
90°	0.8	68.4	136.0	170.6	178.7
92.5°	0.8	52.3	111.1	137.6	143.3
95°	0.8	42.7	93.4	113.5	116.7
97.5°	1.6	33.8	78.1	94.2	97.4
100°	2.4	28.2	65.2	78.9	81.3
102.5°	3.2	22.5	54.7	66.0	68.4
105°	3.2	18.5	45.9	55.5	57.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	5.6	11.3	27.4	34.6	36.2
115°	6.4	9.7	23.3	29.8	31.4
117.5°	6.4	8.0	20.1	25.0	26.6
120°	6.4	7.2	17.7	21.7	22.5
122.5°	6.4	6.4	15.3	19.3	20.1
125°	5.6	6.4	14.5	16.9	17.7
127.5°	6.4	6.4	12.9	15.3	16.1
130°	6.4	7.2	11.3	14.5	14.5
132.5°	7.2	8.0	10.5	13.7	13.7
135°	7.2	8.0	8.9	12.9	13.7
137.5°	8.0	8.0	8.0	12.1	12.9
140°	8.0	8.0	7.2	10.5	11.3
142.5°	7.2	8.0	7.2	9.7	10.5
145°	7.2	8.0	8.0	8.9	9.7
147.5°	8.0	8.0	8.0	8.0	8.9
150°	8.0	8.0	8.0	8.0	8.0
152.5°	8.0	8.0	8.0	8.0	8.0
155°	8.0	8.9	8.9	8.9	8.0
157.5°	8.0	8.9	8.9	8.9	8.9
160°	8.0	8.9	8.9	8.9	8.9
162.5°	8.9	8.9	8.9	8.9	8.9
165°	8.9	8.9	8.9	8.9	8.9
167.5°	8.9	9.7	8.9	8.9	8.9
170°	8.9	8.9	8.9	8.0	8.0
172.5°	8.9	8.9	8.9	8.0	8.0
175°	8.9	8.9	8.0	7.2	7.2
177.5°	9.7	8.9	8.0	7.2	6.4
180°	8.0	8.0	8.0	8.0	8.0



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	4.0	15.3	39.4	47.5	49.1
110°	4.8	12.9	33.0	40.2	41.9



(END OF REPORT)