

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: P829894

Luminaire Tested: **OHBL-18HE-MCL-UNV-L850-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829894
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-L850-CD
Description: 18000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 5000K LEDS AND MEDIUM CLEAR LENS
Light Source: -
Ballast/Driver: -

Summary

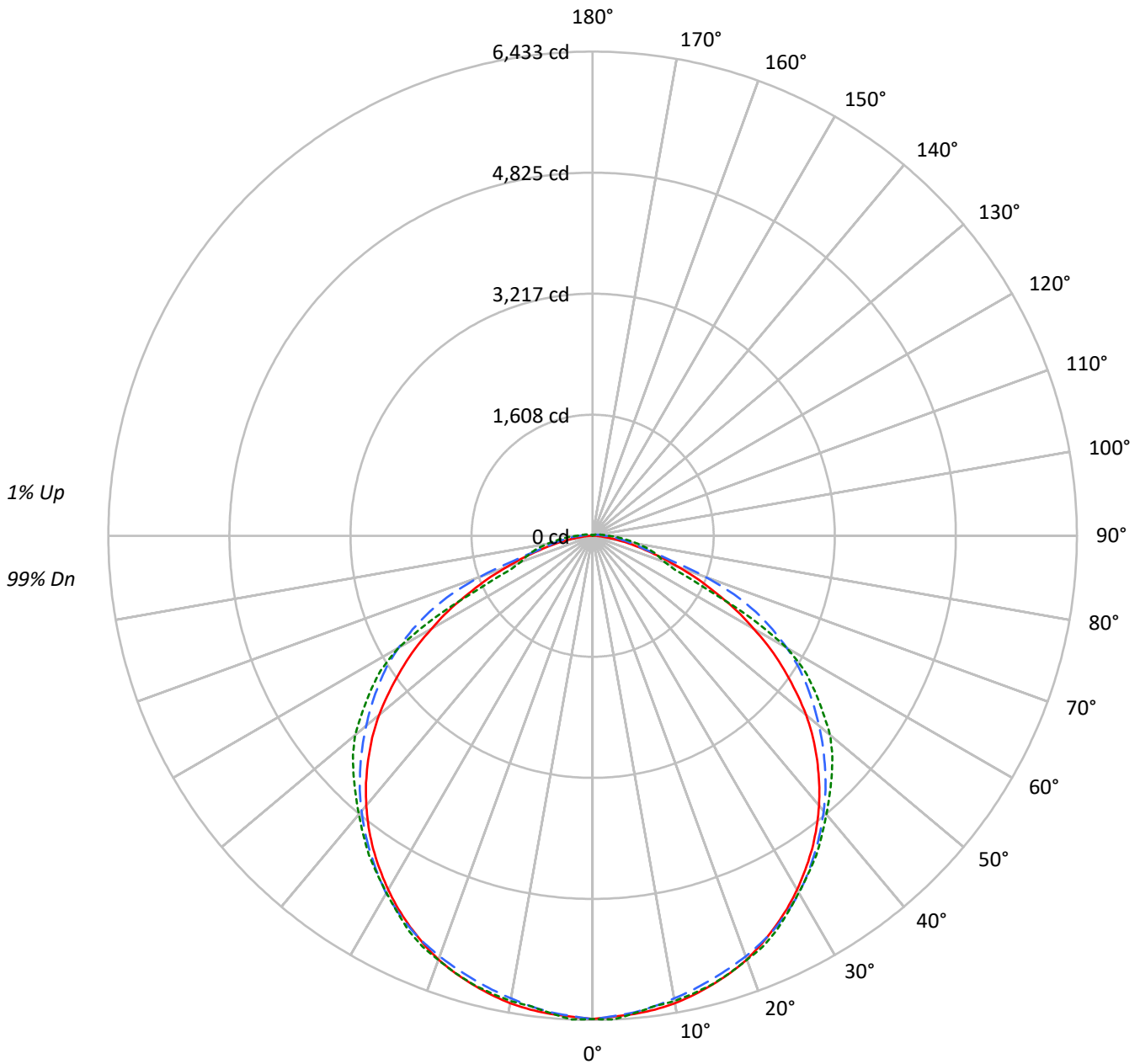
Lumens per Lamp: N/A
Luminaire Lumens: 18147.0 lumens
Efficiency: N/A
Efficacy: 176.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

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°	10966	10966	10966
5°	10894	10802	10822
10°	10854	10633	10695
15°	10785	10506	10617
20°	10717	10424	10516
25°	10587	10342	10415
30°	10447	10214	10211
35°	10279	10015	10094
40°	10060	9809	9938
45°	9757	9571	9862
50°	9346	9300	9773
55°	8694	9033	9395
60°	7840	8644	8671
65°	6725	7932	5483
70°	5417	6179	3964
75°	4061	3657	4006
80°	2827	3026	3799
85°	1609	2748	3514



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	605.4	3.3
10°-20°	1736.0	9.6
20°-30°	2651.4	14.6
30°-40°	3217.0	17.7
40°-50°	3371.7	18.6
50°-60°	3055.3	16.8
60°-70°	2048.5	11.3
70°-80°	919.9	5.1
80°-90°	333.8	1.8
90°-100°	100.5	0.6
100°-110°	47.4	0.3
110°-120°	23.8	0.1
120°-130°	13.1	0.1
130°-140°	9.0	0.0
140°-150°	6.1	0.0
150°-160°	4.5	0.0
160°-170°	2.9	0.0
170°-180°	0.9	0.0
0°-30°	4992.7	27.5
0°-40°	8209.7	45.2
0°-60°	14636.7	80.7
0°-90°	17938.9	98.9
90°-120°	171.6	0.9
90°-150°	199.8	1.1
90°-180°	208.0	1.1
0°-180°	18147.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6420	6420	6420	6420	6420	
5°	6379	6401	6356	6376	6368	607
15°	6172	6148	6104	6158	6165	1743
25°	5733	5708	5748	5801	5784	2643
35°	5082	5094	5146	5201	5180	3176
45°	4218	4286	4366	4477	4491	3249
55°	3104	3253	3475	3614	3606	2770
65°	1821	2106	2391	2018	1648	1815
75°	717	1040	765	783	834	783
85°	124	237	304	367	384	151
90°	1	79	157	197	206	7
95°	1	49	108	131	135	1
105°	4	21	53	64	67	4
115°	7	11	27	34	36	7
125°	6	7	17	20	20	6
135°	8	9	10	15	16	7
145°	8	9	9	10	11	6
155°	9	10	10	10	9	4
165°	10	10	10	10	10	3
175°	10	10	9	8	8	1
180°	9	9	9	9	9	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6420.4	6420.4	6420.4	6420.4	6420.4
2.5°	6394.4	6421.4	6387.9	6424.1	6433.4
5°	6378.6	6400.9	6356.4	6375.9	6367.5
7.5°	6349.9	6357.3	6304.4	6320.2	6303.5
10°	6307.2	6303.5	6241.3	6271.9	6275.6
12.5°	6244.0	6232.9	6177.2	6223.6	6224.5
15°	6171.6	6147.5	6103.9	6157.7	6165.1
17.5°	6088.1	6056.5	6027.7	6097.4	6086.2
20°	5990.6	5953.5	5947.9	6024.0	5996.2
22.5°	5869.9	5841.1	5854.1	5926.5	5908.9
25°	5733.4	5708.4	5748.3	5801.2	5784.5
27.5°	5589.6	5574.7	5620.2	5661.0	5628.5
30°	5431.7	5423.4	5483.7	5517.1	5476.3
32.5°	5260.0	5262.8	5320.3	5365.8	5327.8
35°	5081.8	5093.8	5145.8	5200.6	5180.2
37.5°	4885.9	4912.8	4964.8	5027.0	5005.6
40°	4678.9	4717.8	4775.4	4850.6	4831.1
42.5°	4455.1	4504.3	4578.6	4662.1	4660.3
45°	4217.5	4286.2	4366.0	4477.4	4491.3
47.5°	3970.5	4047.6	4148.8	4297.3	4318.7
50°	3702.2	3798.8	3925.0	4103.3	4116.3
52.5°	3403.3	3535.1	3702.2	3873.0	3857.3
55°	3103.5	3252.9	3474.8	3614.0	3605.7
57.5°	2804.5	2972.6	3241.8	3341.1	3340.2
60°	2470.3	2682.9	2977.2	3052.4	2978.1
62.5°	2161.2	2389.6	2695.0	2640.2	2385.8
65°	1821.4	2106.4	2391.4	2018.2	1647.8
67.5°	1519.7	1816.8	2031.2	1382.3	1183.6
70°	1216.1	1543.8	1583.8	1025.8	1011.9
72.5°	946.9	1296.0	1092.7	878.2	922.8
75°	716.7	1039.7	765.0	782.6	833.7
77.5°	522.7	798.4	595.1	686.0	727.8
80°	359.3	565.4	485.5	576.5	605.3
82.5°	225.6	373.2	389.0	464.2	493.9
85°	123.5	236.7	303.6	366.7	384.3
87.5°	51.1	143.0	232.1	283.1	298.0
90°	0.9	78.9	156.9	196.8	206.1
92.5°	0.9	60.3	128.1	158.7	165.2
95°	0.9	49.2	107.7	130.9	134.6
97.5°	1.9	39.0	90.0	108.6	112.3
100°	2.8	32.5	75.2	91.0	93.8
102.5°	3.7	26.0	63.1	76.1	78.9
105°	3.7	21.4	52.9	64.1	66.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	6.5	13.0	31.6	39.9	41.8
115°	7.4	11.1	26.9	34.3	36.2
117.5°	7.4	9.3	23.2	28.8	30.6
120°	7.4	8.4	20.4	25.1	26.0
122.5°	7.4	7.4	17.6	22.3	23.2
125°	6.5	7.4	16.7	19.5	20.4
127.5°	7.4	7.4	14.9	17.6	18.6
130°	7.4	8.4	13.0	16.7	16.7
132.5°	8.4	9.3	12.1	15.8	15.8
135°	8.4	9.3	10.2	14.9	15.8
137.5°	9.3	9.3	9.3	13.9	14.9
140°	9.3	9.3	8.4	12.1	13.0
142.5°	8.4	9.3	8.4	11.1	12.1
145°	8.4	9.3	9.3	10.2	11.1
147.5°	9.3	9.3	9.3	9.3	10.2
150°	9.3	9.3	9.3	9.3	9.3
152.5°	9.3	9.3	9.3	9.3	9.3
155°	9.3	10.2	10.2	10.2	9.3
157.5°	9.3	10.2	10.2	10.2	10.2
160°	9.3	10.2	10.2	10.2	10.2
162.5°	10.2	10.2	10.2	10.2	10.2
165°	10.2	10.2	10.2	10.2	10.2
167.5°	10.2	11.1	10.2	10.2	10.2
170°	10.2	10.2	10.2	9.3	9.3
172.5°	10.2	10.2	10.2	9.3	9.3
175°	10.2	10.2	9.3	8.4	8.4
177.5°	11.1	10.2	9.3	8.4	7.4
180°	9.3	9.3	9.3	9.3	9.3



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	4.6	17.6	45.5	54.8	56.6
110°	5.6	14.9	38.1	46.4	48.3



(END OF REPORT)