

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: P829905

Luminaire Tested: **OHBL-18HE-MFL-UNV-L840-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829905
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-18HE-MFL-UNV-L840-CD
Description: 18000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND MEDIUM FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

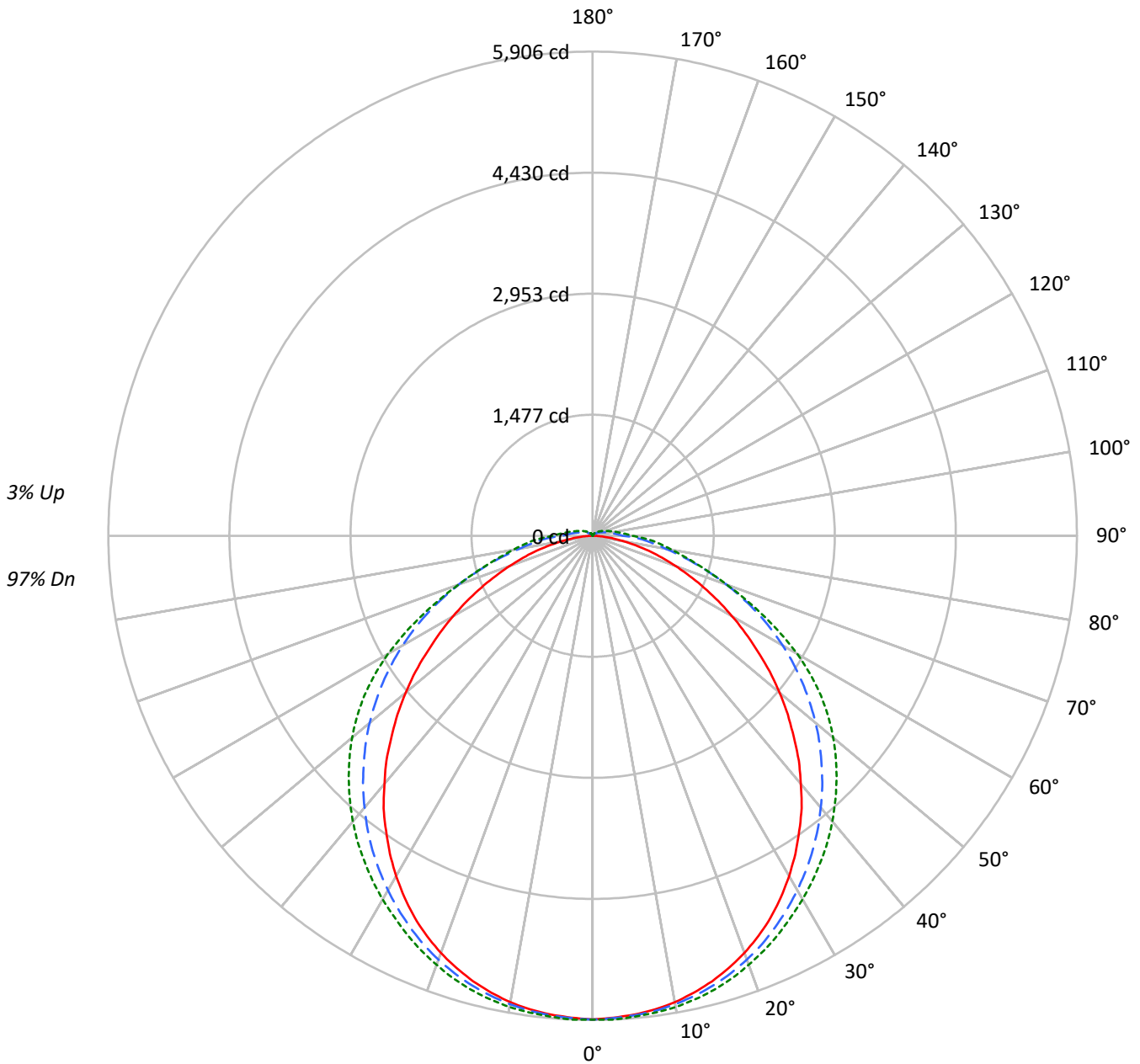
Lumens per Lamp: N/A
Luminaire Lumens: 17660.0 lumens
Efficiency: N/A
Efficacy: 171.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	97																	
1	107	102	98	94	104	100	96	92	95	91	88	90	88	85	86	84	82	82	82	80																	
2	98	89	82	76	95	87	80	75	83	77	73	79	74	71	75	72	68	68	68	66																	
3	89	78	70	63	86	76	69	62	73	66	61	70	64	59	67	62	58	58	58	56																	
4	81	69	60	53	79	68	59	53	65	57	52	62	56	51	59	54	50	50	50	47																	
5	75	62	53	46	72	60	52	46	58	50	45	56	49	44	53	48	43	43	43	41																	
6	69	56	47	40	67	54	46	40	52	45	39	50	44	39	48	43	38	38	38	36																	
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	44	38	34	34	34	32																	
8	60	46	37	31	58	45	37	31	43	36	31	42	35	31	41	35	30	30	30	28																	
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	37	32	27	27	27	25																	
10	52	39	31	26	51	38	31	26	37	30	25	36	29	25	35	29	25	25	25	23																	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10079	10079	10079
5°	10014	9978	10007
10°	9944	9886	9948
15°	9833	9776	9873
20°	9685	9643	9766
25°	9488	9478	9657
30°	9216	9299	9548
35°	8886	9109	9452
40°	8489	8890	9357
45°	8022	8652	9237
50°	7510	8411	9093
55°	6882	8116	8854
60°	6238	7770	8389
65°	5535	7328	7631
70°	4773	6767	6811
75°	4002	6117	6246
80°	3034	5635	6154
85°	1919	5805	6787



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	559.1	3.2
10°-20°	1604.1	9.1
20°-30°	2425.9	13.7
30°-40°	2912.3	16.5
40°-50°	3007.9	17.0
50°-60°	2706.2	15.3
60°-70°	2038.5	11.5
70°-80°	1230.9	7.0
80°-90°	602.0	3.4
90°-100°	253.4	1.4
100°-110°	144.7	0.8
110°-120°	84.9	0.5
120°-130°	48.0	0.3
130°-140°	25.3	0.1
140°-150°	12.3	0.1
150°-160°	4.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	4589.0	26.0
0°-40°	7501.3	42.5
0°-60°	13215.4	74.8
0°-90°	17086.9	96.8
90°-120°	483.0	2.7
90°-150°	568.6	3.2
90°-180°	573.0	3.2
0°-180°	17660.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5901	5901	5901	5901	5901	
5°	5863	5879	5872	5895	5888	557
15°	5626	5654	5680	5728	5733	1586
25°	5138	5195	5268	5350	5364	2363
35°	4393	4496	4680	4822	4851	2746
45°	3467	3642	3947	4162	4207	2677
55°	2456	2711	3122	3358	3398	2202
65°	1499	1805	2210	2319	2293	1489
75°	706	1014	1280	1313	1300	753
85°	147	388	641	729	742	170
90°	0	152	367	462	481	9
95°	7	102	274	350	362	6
105°	10	59	159	208	217	10
115°	12	33	98	131	137	12
125°	12	16	59	85	90	10
135°	10	13	30	52	58	8
145°	14	13	14	26	30	9
155°	14	16	14	13	14	4
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5900.8	5900.8	5900.8	5900.8	5900.8
2.5°	5883.4	5897.9	5889.2	5908.0	5906.5
5°	5863.2	5879.1	5871.9	5895.0	5887.8
7.5°	5828.6	5845.9	5844.4	5870.4	5867.6
10°	5778.0	5796.8	5802.6	5837.2	5837.2
12.5°	5708.7	5733.2	5747.7	5789.6	5791.0
15°	5626.4	5653.8	5679.8	5727.5	5733.2
17.5°	5526.7	5561.4	5597.5	5652.4	5659.6
20°	5414.1	5453.1	5502.2	5560.0	5568.6
22.5°	5284.1	5330.3	5393.9	5461.7	5471.9
25°	5138.3	5194.6	5268.2	5350.5	5363.5
27.5°	4972.2	5037.2	5136.8	5229.2	5240.8
30°	4791.7	4868.2	4992.4	5102.2	5120.9
32.5°	4601.0	4689.1	4842.2	4965.0	4991.0
35°	4393.1	4495.6	4680.5	4822.0	4850.9
37.5°	4188.0	4300.7	4510.1	4671.8	4706.5
40°	3948.3	4088.4	4328.1	4507.2	4549.1
42.5°	3723.0	3874.6	4146.1	4341.1	4381.5
45°	3467.4	3642.1	3946.8	4162.0	4206.8
47.5°	3227.7	3416.8	3754.8	3977.2	4023.4
50°	2974.9	3182.9	3549.7	3782.2	3829.9
52.5°	2722.2	2946.1	3337.4	3578.6	3623.4
55°	2456.5	2710.7	3122.2	3357.6	3398.1
57.5°	2209.5	2478.1	2901.3	3125.1	3149.7
60°	1965.5	2244.2	2676.0	2872.4	2881.1
62.5°	1727.2	2020.4	2444.9	2600.9	2589.3
65°	1499.0	1805.2	2209.5	2319.3	2293.3
67.5°	1279.5	1595.8	1968.4	2039.1	2004.5
70°	1071.6	1392.2	1734.4	1770.5	1738.7
72.5°	888.1	1198.6	1497.6	1527.9	1504.8
75°	706.2	1013.8	1279.5	1312.7	1299.7
77.5°	535.8	834.7	1078.8	1122.1	1125.0
80°	385.6	671.5	904.0	971.9	980.6
82.5°	254.2	521.3	758.2	844.8	857.8
85°	147.3	388.5	641.2	729.3	742.3
87.5°	63.5	280.2	515.6	595.0	610.9
90°	0.0	151.6	366.8	462.1	480.9
92.5°	4.3	125.6	314.8	401.5	417.4
95°	7.2	102.5	274.4	349.5	362.5
97.5°	8.7	86.6	238.3	304.7	317.7
100°	8.7	75.1	206.5	267.2	278.7
102.5°	8.7	66.4	180.5	234.0	244.1
105°	10.1	59.2	158.9	208.0	216.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	11.6	39.0	109.8	147.3	153.1
115°	11.6	33.2	98.2	131.4	137.2
117.5°	13.0	28.9	86.6	118.4	122.8
120°	13.0	24.6	76.5	105.4	111.2
122.5°	13.0	20.2	67.9	95.3	99.6
125°	11.6	15.9	59.2	85.2	89.5
127.5°	10.1	13.0	50.5	76.5	80.9
130°	10.1	11.6	43.3	67.9	72.2
132.5°	10.1	13.0	36.1	59.2	65.0
135°	10.1	13.0	30.3	52.0	57.8
137.5°	10.1	13.0	24.6	44.8	50.5
140°	11.6	13.0	20.2	37.5	43.3
142.5°	13.0	13.0	15.9	31.8	36.1
145°	14.4	13.0	14.4	26.0	30.3
147.5°	14.4	14.4	14.4	20.2	24.6
150°	14.4	15.9	14.4	15.9	20.2
152.5°	14.4	15.9	14.4	13.0	15.9
155°	14.4	15.9	14.4	13.0	14.4
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°	10.1	52.0	140.1	184.9	192.1
110°	10.1	46.2	124.2	164.6	171.9



(END OF REPORT)