

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: P829941

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829941
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-18HE-W-UNV-L840-CD
Description: 18000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND WIDE LENS
Light Source: -
Ballast/Driver: -

Summary

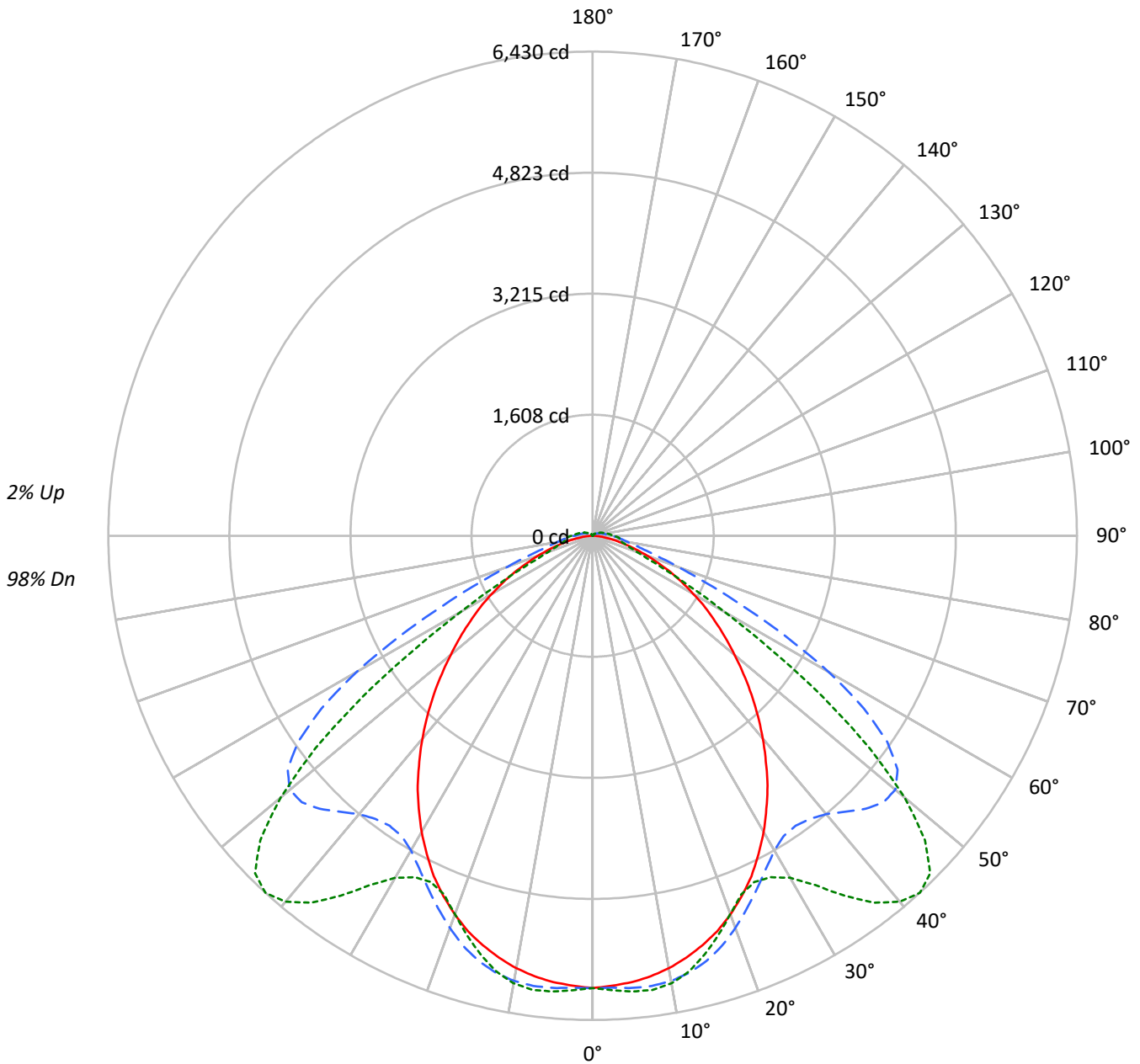
Lumens per Lamp: N/A
Luminaire Lumens: 17984.0 lumens
Efficiency: N/A
Efficacy: 174.6 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

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

TEST NUMBER: P829941

CATALOG NUMBER: OHBL-18HE-W-UNV-L840-CD

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	105	105	105	100	100	100	98																			
1	109	104	100	96	106	102	98	95	97	94	91	93	90	88	89	87	85	83																			
2	99	91	85	79	96	89	83	78	85	80	76	82	77	74	78	75	72	70																			
3	90	80	72	66	88	78	71	65	75	69	64	72	67	62	69	65	61	59																			
4	83	71	62	56	80	69	61	55	67	60	54	64	58	53	62	57	52	50																			
5	76	63	54	48	74	62	54	47	60	52	47	57	51	46	55	50	45	43																			
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	50	44	40	38																			
7	65	51	43	36	63	50	42	36	49	41	36	47	40	35	45	40	35	33																			
8	60	47	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29																			
9	56	43	34	29	55	42	34	29	41	34	28	39	33	28	38	32	28	26																			
10	52	39	31	26	51	39	31	26	38	31	26	36	30	26	35	30	25	24																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10259	10259	10259
5°	10163	10244	10325
10°	10036	10229	10287
15°	9840	10059	9908
20°	9572	9714	9375
25°	9213	9295	9137
30°	8735	8984	9776
35°	8191	9150	11368
40°	7559	9910	13051
45°	6898	11240	13917
50°	6209	12429	12832
55°	5562	12413	9697
60°	4902	10501	5848
65°	4206	7251	3480
70°	3417	4687	2452
75°	2599	3358	2192
80°	1866	2948	2326
85°	1267	3238	3235



TEST NUMBER: P829941

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	574.0	3.2
10°-20°	1625.3	9.0
20°-30°	2378.4	13.2
30°-40°	3088.8	17.2
40°-50°	3771.8	21.0
50°-60°	3321.7	18.5
60°-70°	1731.0	9.6
70°-80°	742.3	4.1
80°-90°	356.5	2.0
90°-100°	167.5	0.9
100°-110°	104.1	0.6
110°-120°	61.6	0.3
120°-130°	33.5	0.2
130°-140°	16.8	0.1
140°-150°	8.1	0.0
150°-160°	2.8	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	4577.7	25.5
0°-40°	7666.5	42.6
0°-60°	14760.0	82.1
0°-90°	17589.7	97.8
90°-120°	333.1	1.9
90°-150°	391.5	2.2
90°-180°	394.0	2.2
0°-180°	17984.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6006	6006	6006	6006	6006	
5°	5951	5996	6028	6082	6075	564
15°	5630	5789	5844	5800	5754	1585
25°	4989	5256	5167	5069	5075	2290
35°	4050	4477	4701	5483	5834	2524
45°	2982	3752	5128	6208	6338	2299
55°	1985	3286	4775	4187	3722	1782
65°	1139	2277	2186	1216	1046	1127
75°	459	1065	702	481	456	500
85°	97	380	358	350	354	108
90°	1	137	236	270	276	7
95°	3	80	188	220	227	2
105°	5	45	122	146	149	5
115°	8	26	75	92	95	8
125°	9	13	44	57	58	8
135°	8	8	21	35	36	6
145°	10	8	9	17	19	6
155°	10	10	8	8	8	3
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P829941

CATALOG NUMBER: OHBL-18HE-W-UNV-L840-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6006.3	6006.3	6006.3	6006.3	6006.3
2.5°	5980.4	6006.3	6007.6	6043.9	6040.0
5°	5950.6	5996.0	6028.4	6081.5	6075.0
7.5°	5901.4	5972.6	6029.7	6088.0	6082.8
10°	5831.4	5928.6	6003.7	6051.7	6036.1
12.5°	5740.7	5869.0	5942.8	5953.2	5923.4
15°	5630.5	5788.6	5844.3	5800.3	5753.6
17.5°	5506.1	5691.4	5710.9	5615.0	5556.7
20°	5350.6	5561.8	5542.4	5410.2	5345.4
22.5°	5178.3	5419.3	5357.1	5218.4	5156.2
25°	4989.1	5256.0	5166.6	5069.4	5074.6
27.5°	4767.5	5070.7	4983.9	5028.0	5110.9
30°	4542.0	4876.3	4823.2	5079.8	5243.1
32.5°	4294.5	4676.8	4724.7	5231.4	5498.3
35°	4049.6	4477.2	4701.4	5482.8	5834.0
37.5°	3778.7	4275.1	4739.0	5773.1	6141.1
40°	3515.7	4078.1	4824.5	6033.5	6344.5
42.5°	3247.4	3901.8	4968.3	6187.7	6430.1
45°	2981.8	3751.5	5127.7	6208.5	6338.1
47.5°	2716.1	3624.5	5237.9	6043.9	5984.3
50°	2459.5	3511.8	5245.7	5648.7	5405.0
52.5°	2219.8	3408.1	5103.1	5018.9	4640.5
55°	1985.3	3286.3	4775.3	4186.9	3721.7
57.5°	1771.4	3117.8	4269.9	3292.8	2784.8
60°	1544.7	2889.8	3616.8	2409.0	2008.6
62.5°	1336.0	2606.0	2884.6	1676.8	1443.6
65°	1139.1	2276.8	2186.1	1215.5	1045.8
67.5°	930.4	1936.0	1613.4	886.4	777.5
70°	767.2	1619.8	1201.3	689.4	625.9
72.5°	600.0	1319.2	898.0	559.8	524.8
75°	458.7	1065.2	702.4	480.8	456.1
77.5°	338.2	842.3	565.0	425.0	401.7
80°	237.1	663.5	473.0	379.7	370.6
82.5°	159.4	513.2	403.0	361.5	362.8
85°	97.2	379.7	357.7	349.9	353.8
87.5°	46.7	269.5	307.1	318.8	322.7
90°	1.3	137.4	235.8	269.5	276.0
92.5°	0.0	105.0	207.3	241.0	247.5
95°	2.6	80.3	187.9	220.3	226.8
97.5°	2.6	66.1	168.5	202.2	206.0
100°	3.9	57.0	150.3	182.7	186.6
102.5°	3.9	50.5	134.8	163.3	165.9
105°	5.2	45.4	121.8	146.4	149.0



TEST NUMBER: P829941

CATALOG NUMBER: OHBL-18HE-W-UNV-L840-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	7.8	31.1	85.5	103.7	106.3
115°	7.8	25.9	75.2	92.0	94.6
117.5°	9.1	23.3	66.1	81.6	82.9
120°	9.1	19.4	57.0	72.6	73.9
122.5°	9.1	15.6	50.5	64.8	66.1
125°	9.1	13.0	44.1	57.0	58.3
127.5°	7.8	9.1	37.6	50.5	51.8
130°	7.8	7.8	31.1	44.1	46.7
132.5°	7.8	7.8	25.9	38.9	41.5
135°	7.8	7.8	20.7	35.0	36.3
137.5°	7.8	7.8	16.8	29.8	32.4
140°	7.8	7.8	13.0	25.9	27.2
142.5°	9.1	7.8	11.7	22.0	23.3
145°	10.4	7.8	9.1	16.8	19.4
147.5°	10.4	9.1	9.1	14.3	15.6
150°	10.4	10.4	7.8	10.4	13.0
152.5°	10.4	10.4	7.8	7.8	10.4
155°	10.4	10.4	7.8	7.8	7.8
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°	6.5	40.2	108.9	130.9	133.5
110°	6.5	35.0	95.9	116.6	119.2



(END OF REPORT)