

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: P827106

Luminaire Tested: **OHBL-18HE-W-UNV-L840-CD-UPL12**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P827106
REPORT IS A COMBINATION OF REPORTS P826064 AND G3-2310-221-12
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-UPL12
Description: 18000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND WIDE LENS AND 1200 LUMEN UPLIGHT MODULE
Light Source: -
Ballast/Driver: -

Summary

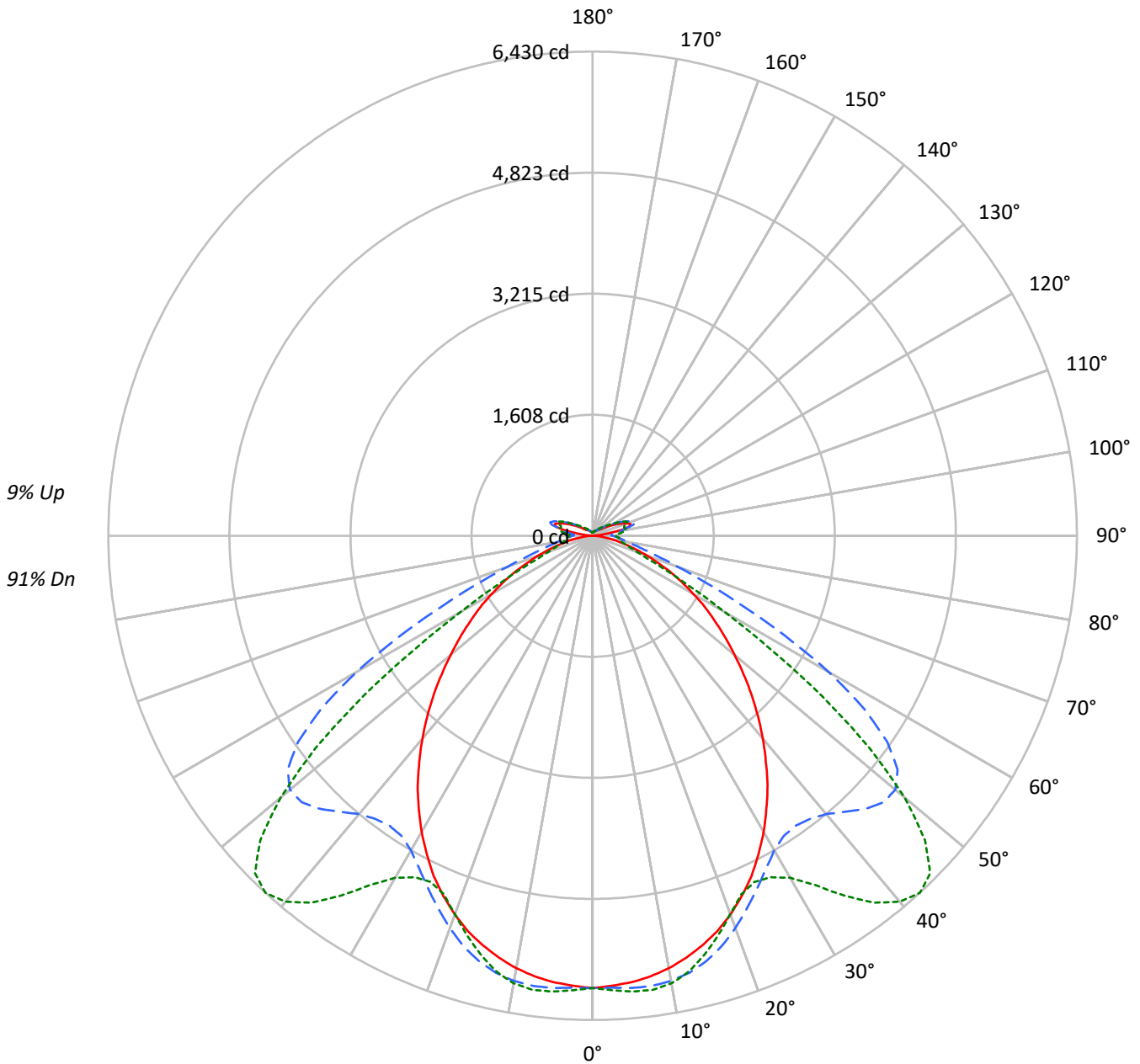
Lumens per Lamp: N/A
Luminaire Lumens: 19229.3 lumens
Efficiency: N/A
Efficacy: 172.6 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')
CIE Type: Direct

Input Watts (W): 111.4
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: P827106

CATALOG NUMBER: OHBL-18HE-W-UNV-L840-CD-UPL12

Luminous Intensity Polar Plot





TEST NUMBER: P827106

CATALOG NUMBER: OHBL-18HE-W-UNV-L840-CD-UPL12

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	117	117	117	117	113	113	113	113	106	106	106	100	100	100	94	94	94	91																			
1	107	103	99	95	104	100	96	93	94	91	88	89	86	84	84	82	80	77																			
2	98	90	83	78	94	87	81	76	82	78	73	78	74	70	74	70	68	65																			
3	89	79	71	65	86	77	70	64	73	67	62	69	64	59	65	61	57	55																			
4	82	70	61	55	79	68	60	54	65	58	52	61	55	51	58	53	49	47																			
5	75	62	54	47	72	61	53	46	58	51	45	55	49	44	52	47	43	40																			
6	69	56	47	41	67	55	46	40	52	45	39	49	43	38	47	42	37	35																			
7	64	51	42	36	62	49	41	35	47	40	35	45	38	34	43	37	33	31																			
8	59	46	37	32	57	45	37	31	43	36	31	41	35	30	39	34	29	27																			
9	55	42	34	28	53	41	33	28	39	32	27	38	31	27	36	30	26	24																			
10	52	39	31	26	50	38	30	25	36	29	25	35	29	24	33	28	24	22																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10259	10259	10259
5°	10114	10244	10376
10°	9938	10229	10388
15°	9696	10059	10055
20°	9384	9714	9562
25°	8983	9295	9371
30°	8469	8984	10084
35°	7891	9150	11800
40°	7232	9910	13641
45°	6548	11240	14663
50°	5839	12429	13645
55°	5173	12413	10426
60°	4498	10501	6375
65°	3791	7251	3861
70°	3005	4687	2788
75°	2204	3358	2585
80°	1488	2948	2916
85°	889	3238	4610



TEST NUMBER: P827106

CATALOG NUMBER: OHBL-18HE-W-UNV-L840-CD-UPL12

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	574.0	3.0
10°-20°	1625.3	8.5
20°-30°	2378.4	12.4
30°-40°	3088.8	16.1
40°-50°	3771.8	19.6
50°-60°	3321.7	17.3
60°-70°	1731.0	9.0
70°-80°	742.3	3.9
80°-90°	359.6	1.9
90°-100°	286.5	1.5
100°-110°	518.0	2.7
110°-120°	417.1	2.2
120°-130°	203.9	1.1
130°-140°	102.0	0.5
140°-150°	57.7	0.3
150°-160°	31.8	0.2
160°-170°	15.0	0.1
170°-180°	4.6	0.0
0°-30°	4577.7	23.8
0°-40°	7666.5	39.9
0°-60°	14760.0	76.8
0°-90°	17592.9	91.5
90°-120°	1221.6	6.4
90°-150°	1585.1	8.2
90°-180°	1636.0	8.5
0°-180°	19229.3	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°	4	155	260	300	311	9
95°	28	138	274	336	361	84
105°	522	556	558	455	433	495
115°	368	386	436	450	447	368
125°	185	196	231	242	244	172
135°	110	113	130	145	146	87
145°	85	85	87	96	99	54
155°	70	71	70	71	71	31
165°	52	52	53	53	53	15
175°	47	47	47	47	47	5
180°	46	46	46	46	46	



TEST NUMBER: P827106

CATALOG NUMBER: OHBL-18HE-W-UNV-L840-CD-UPL12

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°	4.3	155.4	259.8	300.5	311.0
92.5°	9.0	128.0	245.3	295.0	306.5
95°	27.6	138.3	273.9	336.3	360.8
97.5°	137.6	213.1	334.5	398.2	412.0
100°	279.9	354.0	397.3	440.7	449.6
102.5°	442.9	483.5	450.8	449.3	446.9
105°	522.2	556.4	557.8	455.4	433.0



TEST NUMBER: P827106

CATALOG NUMBER: OHBL-18HE-W-UNV-L840-CD-UPL12

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	425.8	452.1	503.5	505.7	491.3
115°	367.8	385.9	436.2	450.0	446.6
117.5°	311.1	329.3	375.1	387.6	386.9
120°	262.1	278.4	318.0	329.6	330.9
122.5°	222.1	233.6	271.5	282.8	285.1
125°	185.1	196.0	231.1	242.0	244.3
127.5°	154.8	162.1	197.6	209.5	210.8
130°	135.8	139.8	168.1	182.1	184.7
132.5°	121.8	124.8	146.9	160.9	164.5
135°	109.8	112.8	129.7	145.0	146.3
137.5°	101.8	103.8	115.8	129.8	133.4
140°	93.8	96.8	104.0	117.9	119.2
142.5°	89.1	89.8	95.7	107.0	109.3
145°	85.4	84.8	87.1	95.8	99.4
147.5°	80.4	81.1	83.1	88.3	90.6
150°	77.4	78.4	76.8	80.4	83.0
152.5°	73.4	74.4	72.8	73.8	76.4
155°	70.4	71.4	69.8	70.8	70.8
157.5°	57.0	59.0	59.0	60.0	60.0
160°	55.0	56.0	57.0	57.0	57.0
162.5°	53.0	54.0	54.0	55.0	55.0
165°	52.0	52.0	53.0	53.0	53.0
167.5°	50.0	50.0	51.0	51.0	51.0
170°	49.0	49.0	49.0	50.0	50.0
172.5°	48.0	48.0	48.0	48.0	48.0
175°	47.0	47.0	47.0	47.0	47.0
177.5°	46.0	47.0	47.0	47.0	47.0
180°	46.0	46.0	46.0	46.0	46.0



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	526.5	562.2	589.9	503.9	442.5
110°	482.5	518.0	556.9	536.6	488.2



(END OF REPORT)