

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: P826959

Luminaire Tested: **OHB-18HE-NL-UNV-L840-CD-UPL12**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P826959  
REPORT IS A COMBINATION OF REPORTS P826027 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: OHB-18HE-NL-UNV-L840-CD-UPL12  
Description: 18000 LUMEN OHB HE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND NO LENS AND 1200 LUMEN UPLIGHT MODULE  
Light Source: -  
Ballast/Driver: -

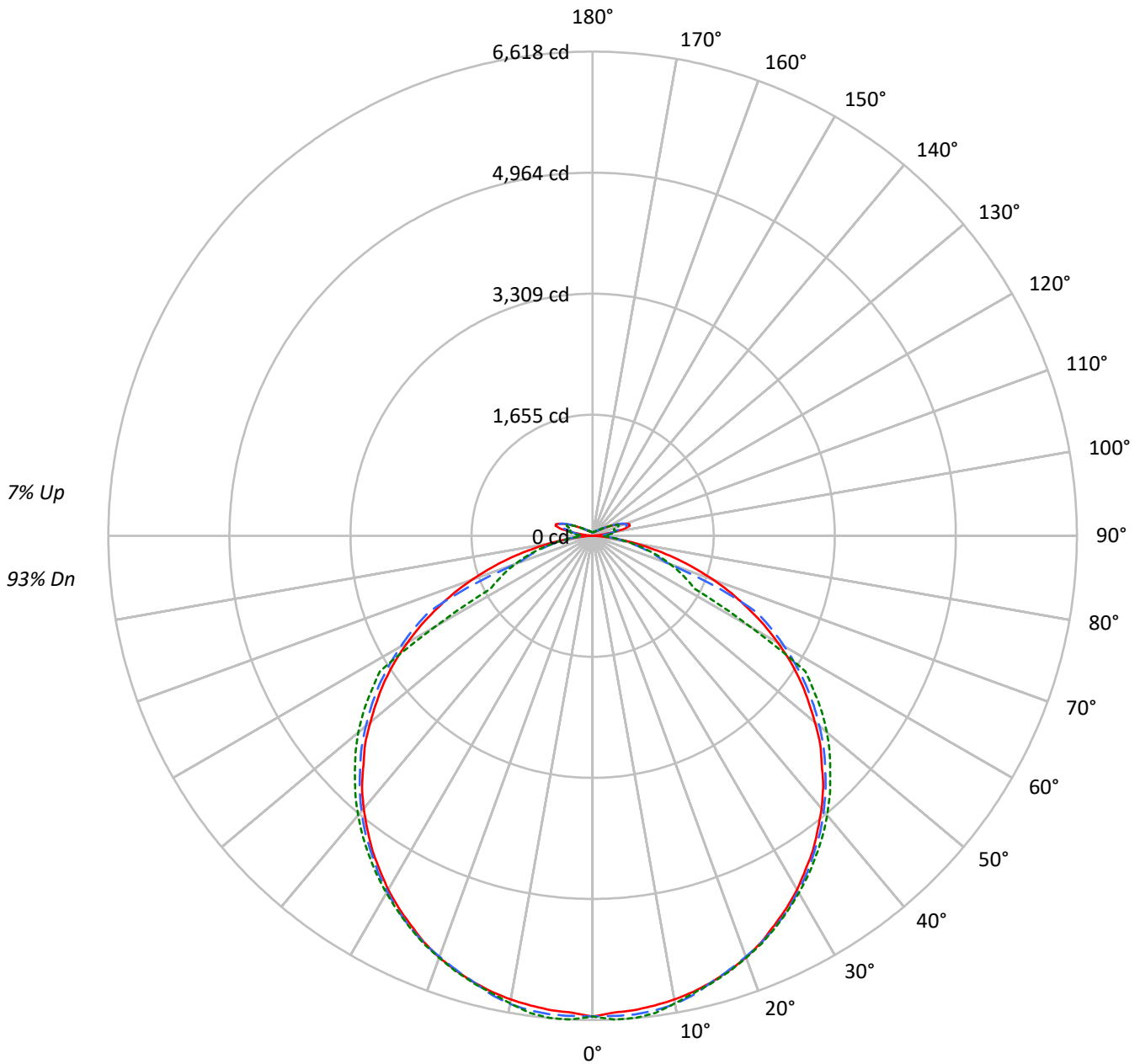
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19691.4 lumens  
Efficiency: N/A  
Efficacy: 173.6 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 1.93' x L: 1.67' x H: 0.1')  
CIE Type: Direct  
  
Input Watts (W): 113.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: P826959

CATALOG NUMBER: OHB-18HE-NL-UNV-L840-CD-UPL12

### Luminous Intensity Polar Plot





TEST NUMBER: P826959

CATALOG NUMBER: OHB-18HE-NL-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	114	114	114	114	107	107	107	101	101	101	96	96	96	93																			
1	108	103	99	95	104	100	97	93	95	92	89	90	87	85	85	83	81	79																			
2	98	90	84	78	95	88	82	77	83	78	74	79	75	71	75	72	69	66																			
3	90	79	72	65	87	77	70	64	73	67	62	70	65	60	66	62	58	56																			
4	82	70	62	55	79	69	61	55	65	58	53	62	56	52	59	54	50	48																			
5	75	63	54	48	73	61	53	47	58	51	46	56	50	45	53	48	44	41																			
6	70	57	48	41	67	55	47	41	53	46	40	50	44	39	48	43	38	36																			
7	64	51	43	37	62	50	42	36	48	41	35	46	40	35	44	38	34	32																			
8	60	47	38	33	58	46	38	32	44	37	32	42	36	31	40	35	30	29																			
9	56	43	35	29	54	42	34	29	40	33	28	39	32	28	37	32	27	26																			
10	52	39	32	26	51	39	31	26	37	30	26	36	30	25	35	29	25	23																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	21947	21947	21947
5°	21712	21872	22089
10°	21603	21737	21813
15°	21483	21372	21573
20°	21332	21157	21416
25°	21060	20987	21264
30°	20828	20715	21115
35°	20546	20399	20969
40°	20207	20094	20838
45°	19735	19680	20631
50°	19228	19214	20457
55°	18614	18631	20001
60°	17693	17791	15346
65°	16373	16722	10130
70°	14673	8529	9563
75°	12181	7618	8742
80°	8555	6249	7391
85°	3433	4806	5887



TEST NUMBER: P826959

CATALOG NUMBER: OHB-18HE-NL-UNV-L840-CD-UPL12

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	624.2	3.2
10°-20°	1787.2	9.1
20°-30°	2719.3	13.8
30°-40°	3306.3	16.8
40°-50°	3476.5	17.7
50°-60°	3174.4	16.1
60°-70°	2035.0	10.3
70°-80°	961.3	4.9
80°-90°	269.7	1.4
90°-100°	189.6	1.0
100°-110°	433.3	2.2
110°-120°	360.9	1.8
120°-130°	170.4	0.9
130°-140°	85.2	0.4
140°-150°	49.6	0.3
150°-160°	28.9	0.1
160°-170°	15.0	0.1
170°-180°	4.6	0.0
0°-30°	5130.7	26.1
0°-40°	8437.0	42.8
0°-60°	15087.9	76.6
0°-90°	18353.9	93.2
90°-120°	983.7	5.0
90°-150°	1288.9	6.5
90°-180°	1337.0	6.8
0°-180°	19691.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6570	6570	6570	6570	6570	
5°	6509	6534	6568	6603	6617	619
15°	6312	6359	6311	6320	6324	1782
25°	5874	5883	5904	5913	5908	2710
35°	5250	5219	5279	5343	5328	3281
45°	4428	4420	4495	4601	4593	3423
55°	3470	3444	3560	3679	3688	3095
65°	2338	2338	2474	1419	1424	2318
75°	1155	1177	764	805	808	1218
85°	151	191	239	258	244	223
90°	3	83	130	157	158	9
95°	28	91	162	219	237	84
105°	523	524	454	327	301	495
115°	366	368	372	366	353	364
125°	176	183	187	185	186	164
135°	102	105	109	110	110	81
145°	75	77	78	79	80	48
155°	60	61	62	63	63	28
165°	52	52	53	53	53	15
175°	47	47	47	47	47	5
180°	46	46	46	46	46	



TEST NUMBER: P826959

CATALOG NUMBER: OHB-18HE-NL-UNV-L840-CD-UPL12

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6570.0	6570.0	6570.0	6570.0	6570.0
2.5°	6523.9	6545.8	6570.0	6601.1	6618.3
5°	6508.8	6534.2	6567.7	6603.4	6617.2
7.5°	6476.6	6512.3	6544.6	6570.0	6578.0
10°	6436.2	6478.9	6497.4	6495.0	6489.3
12.5°	6382.0	6427.1	6421.3	6394.7	6399.4
15°	6311.7	6359.0	6310.6	6319.8	6324.4
17.5°	6228.7	6274.9	6218.4	6236.8	6238.0
20°	6131.9	6166.5	6122.7	6137.7	6137.7
22.5°	6015.5	6039.7	6021.2	6031.6	6033.9
25°	5873.7	5882.8	5903.6	5912.9	5908.2
27.5°	5737.7	5726.1	5766.5	5788.4	5776.8
30°	5586.6	5568.2	5615.4	5651.2	5637.4
32.5°	5413.7	5402.2	5456.4	5499.0	5490.9
35°	5250.0	5218.9	5278.8	5343.4	5328.3
37.5°	5056.3	5037.9	5105.8	5173.9	5165.9
40°	4867.2	4836.1	4913.4	4994.0	4986.0
42.5°	4664.4	4627.4	4711.6	4808.5	4799.2
45°	4428.0	4419.9	4494.8	4600.9	4592.9
47.5°	4218.3	4177.9	4282.7	4385.4	4394.6
50°	3964.5	3949.6	4045.3	4169.8	4179.0
52.5°	3716.8	3706.4	3806.6	3932.3	3948.4
55°	3470.0	3443.5	3559.9	3678.7	3688.0
57.5°	3206.1	3178.4	3297.1	3426.3	3445.8
60°	2923.5	2897.0	3027.3	3147.3	2502.8
62.5°	2641.1	2622.7	2758.8	1954.1	1574.8
65°	2337.9	2337.9	2473.9	1419.1	1423.7
67.5°	2054.4	2036.0	1844.6	1275.0	1275.0
70°	1750.0	1757.0	1062.8	1117.2	1118.2
72.5°	1444.5	1469.9	917.7	961.4	963.7
75°	1155.1	1177.1	764.3	804.7	808.1
77.5°	848.5	652.5	614.4	645.7	646.8
80°	596.0	411.6	470.4	500.3	496.9
82.5°	348.1	288.2	344.7	366.6	365.4
85°	151.0	191.4	238.6	258.3	244.4
87.5°	48.3	118.8	148.7	160.3	159.0
90°	3.0	82.6	130.1	156.6	158.4
92.5°	9.0	73.7	130.3	169.3	175.4
95°	28.4	91.4	162.2	218.6	236.6
97.5°	137.3	171.2	220.2	276.7	289.0
100°	278.3	316.5	282.8	315.6	321.8
102.5°	444.7	449.1	337.8	322.9	319.1
105°	522.7	523.7	454.4	327.4	301.3



TEST NUMBER: P826959

CATALOG NUMBER: OHB-18HE-NL-UNV-L840-CD-UPL12

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	425.0	430.3	430.7	411.3	386.1
115°	365.7	368.1	372.5	366.1	353.1
117.5°	302.0	306.0	309.0	306.0	304.0
120°	253.0	259.0	261.0	257.0	257.0
122.5°	213.0	218.0	221.0	218.0	219.0
125°	176.0	183.0	187.0	185.0	186.0
127.5°	147.0	153.0	160.0	159.0	159.0
130°	128.0	132.0	137.0	138.0	138.0
132.5°	114.0	117.0	121.0	122.0	123.0
135°	102.0	105.0	109.0	110.0	110.0
137.5°	94.0	96.0	99.0	100.0	101.0
140°	86.0	89.0	91.0	92.0	92.0
142.5°	80.0	82.0	84.0	85.0	86.0
145°	75.0	77.0	78.0	79.0	80.0
147.5°	70.0	72.0	74.0	74.0	75.0
150°	67.0	68.0	69.0	70.0	70.0
152.5°	63.0	64.0	65.0	66.0	66.0
155°	60.0	61.0	62.0	63.0	63.0
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°	525.7	533.5	497.1	383.4	312.4
110°	483.0	493.4	474.8	429.3	370.1



(END OF REPORT)