

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: P826929

Luminaire Tested: **OHB-15HE-N-UNV-L840-CD-UPL15**

Issue Date: 5/3/2024

**Test Information**

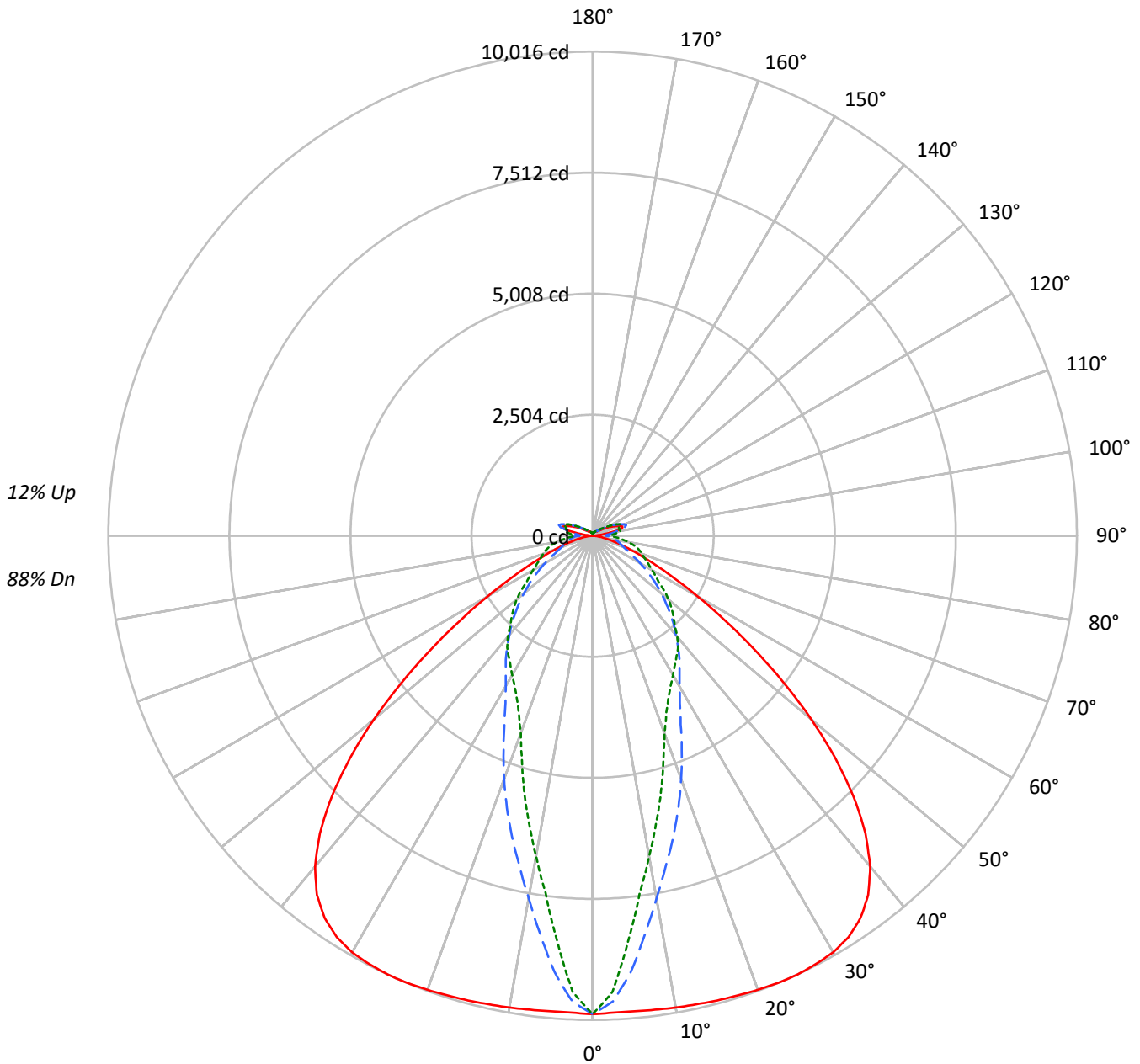
Test Method: LM-79-08  
Report Number: P826929  
REPORT IS A COMBINATION OF REPORTS P826086 AND G3-2310-221-10  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHB-15HE-N-UNV-L840-CD-UPL15  
Description: 15000 LUMEN OHB HE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND NARROW LENS AND 1500 LUMEN UPLIGHT MODULE  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16123.2 lumens  
Efficiency: N/A  
Efficacy: 178.6 lumens/watt  
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78  
Luminous Opening: Rectangular w/ Sides (W: 1.93' x L: 1.67' x H: 0.17')  
CIE Type: Semi-Direct  
  
Input Watts (W): 90.3  
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

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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	116	116	116	116	112	112	112	112	104	104	104	97	97	97	91	91	91	88																			
1	107	102	98	95	103	99	95	92	92	89	87	86	84	82	81	79	78	75																			
2	98	91	84	79	94	88	82	77	82	78	74	77	74	70	73	70	67	64																			
3	90	81	74	68	87	78	72	66	74	68	64	69	65	61	65	62	58	56																			
4	83	73	65	59	80	71	63	58	67	60	56	63	58	54	59	55	52	49																			
5	77	66	58	52	75	64	56	51	60	54	49	57	52	48	54	50	46	44																			
6	72	60	52	46	69	58	51	45	55	49	44	53	47	43	50	45	41	39																			
7	67	55	47	41	65	53	46	41	51	44	40	48	43	38	46	41	37	35																			
8	63	50	43	37	61	49	42	37	47	40	36	45	39	35	43	38	34	32																			
9	59	47	39	34	57	46	38	34	44	37	33	42	36	32	40	35	31	29																			
10	56	43	36	31	54	42	35	31	41	34	30	39	33	29	37	32	29	27																			

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

	0°	45°	90°
0°	33054	33054	33054
5°	32827	30024	28021
10°	33036	25226	22495
15°	33515	21518	18486
20°	34279	18146	14971
25°	35274	14978	13134
30°	36283	12866	12218
35°	36807	11688	11659
40°	35925	10521	11079
45°	32789	9471	10277
50°	27410	8329	9666
55°	20598	7257	8624
60°	14239	6184	8283
65°	9408	5282	8142
70°	6270	4903	8589
75°	4195	4979	9251
80°	2716	5383	9648
85°	1398	6441	10380



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	833.0	5.2
10°-20°	1959.5	12.2
20°-30°	2456.2	15.2
30°-40°	2606.3	16.2
40°-50°	2356.5	14.6
50°-60°	1708.6	10.6
60°-70°	1072.2	6.7
70°-80°	709.6	4.4
80°-90°	412.6	2.6
90°-100°	343.7	2.1
100°-110°	641.3	4.0
110°-120°	517.9	3.2
120°-130°	248.9	1.5
130°-140°	122.8	0.8
140°-150°	70.7	0.4
150°-160°	39.7	0.2
160°-170°	18.3	0.1
170°-180°	5.6	0.0
0°-30°	5248.6	32.6
0°-40°	7854.9	48.7
0°-60°	11920.0	73.9
0°-90°	14114.4	87.5
90°-120°	1502.9	9.3
90°-150°	1945.3	12.1
90°-180°	2009.0	12.5
0°-180°	16123.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	9895	9895	9895	9895	9895	
5°	9875	9622	9057	8637	8419	944
15°	9951	8110	6442	5729	5469	2822
25°	10016	6271	4313	3828	3707	4627
35°	9658	4169	3130	3032	3032	6004
45°	7635	2641	2269	2323	2363	5816
55°	4042	1637	1480	1606	1663	3652
65°	1446	949	857	1098	1220	1504
75°	446	511	575	894	947	498
85°	78	212	421	586	538	94
90°	3	110	273	382	390	7
95°	32	134	322	434	470	103
105°	640	665	688	583	558	607
115°	446	465	546	570	564	450
125°	222	238	283	295	293	209
135°	134	140	156	171	172	107
145°	102	105	109	119	118	65
155°	84	88	91	92	91	38
165°	63	63	64	64	64	18
175°	57	57	57	58	58	6
180°	57	57	57	57	57	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	9895.0	9895.0	9895.0	9895.0	9895.0
2.5°	9874.3	9817.8	9641.7	9534.3	9443.9
5°	9875.2	9621.9	9056.8	8636.8	8419.3
7.5°	9889.3	9326.2	8308.1	7695.1	7455.9
10°	9911.0	8959.8	7609.4	6955.8	6732.6
12.5°	9927.0	8547.3	6994.4	6322.9	6078.1
15°	9950.6	8110.4	6441.6	5728.7	5468.8
17.5°	9972.2	7698.8	5895.4	5150.4	4861.3
20°	9993.9	7255.3	5349.2	4581.6	4343.4
22.5°	10014.6	6787.2	4816.1	4139.9	3977.0
25°	10016.5	6271.1	4313.2	3828.2	3706.7
27.5°	9992.0	5736.2	3905.4	3567.4	3492.0
30°	9949.6	5217.3	3589.0	3379.0	3325.3
32.5°	9844.1	4688.0	3344.2	3197.2	3166.2
35°	9657.7	4169.1	3130.4	3032.4	3031.5
37.5°	9363.8	3708.6	2898.7	2881.8	2902.5
40°	8929.7	3305.5	2679.3	2724.5	2724.5
42.5°	8350.5	2955.2	2480.6	2526.7	2514.5
45°	7634.8	2640.7	2268.7	2323.3	2362.9
47.5°	6805.1	2363.8	2052.1	2157.6	2212.2
50°	5902.9	2100.1	1854.3	1989.0	2051.1
52.5°	4957.4	1856.2	1661.3	1815.7	1865.6
55°	4042.0	1636.8	1480.4	1605.7	1663.1
57.5°	3213.3	1427.7	1303.4	1422.0	1540.7
60°	2500.4	1247.8	1136.7	1306.2	1424.9
62.5°	1909.9	1087.7	980.4	1197.9	1316.6
65°	1445.6	949.3	857.0	1098.1	1220.5
67.5°	1089.6	829.7	760.9	1025.6	1145.2
70°	818.4	713.8	683.7	980.4	1087.7
72.5°	604.6	607.4	622.5	940.8	1022.7
75°	446.4	511.4	575.4	893.7	947.4
77.5°	319.3	423.8	533.0	837.2	856.1
80°	221.3	345.6	488.8	762.8	746.8
82.5°	138.4	276.9	449.2	680.9	636.6
85°	78.2	211.9	421.0	585.8	537.7
87.5°	34.8	158.2	368.2	456.7	426.6
90°	3.0	110.5	272.9	381.7	389.6
92.5°	11.9	101.5	271.1	378.5	398.0
95°	31.8	134.2	321.7	433.9	470.1
97.5°	170.7	241.6	405.5	506.2	535.5
100°	342.7	413.0	484.5	563.6	580.0
102.5°	548.6	569.2	557.5	575.0	576.5
105°	640.5	665.4	688.3	583.2	557.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	518.4	548.0	624.7	637.8	624.5
115°	446.4	465.2	545.5	569.8	563.7
117.5°	385.3	397.4	468.3	489.8	488.8
120°	323.3	338.6	396.1	413.9	412.9
122.5°	269.3	284.8	336.9	349.9	348.0
125°	222.3	238.1	282.7	294.8	292.9
127.5°	190.4	199.2	238.3	251.5	248.6
130°	166.4	173.2	201.8	216.0	216.0
132.5°	148.4	154.3	176.3	190.4	191.4
135°	134.4	140.3	155.5	170.7	171.7
137.5°	124.4	129.2	140.8	154.0	155.0
140°	114.4	119.3	128.0	140.3	141.3
142.5°	108.4	111.3	117.1	128.5	128.5
145°	102.3	105.2	109.1	118.7	117.7
147.5°	97.3	101.2	104.1	108.8	108.9
150°	92.3	97.1	98.1	102.0	101.0
152.5°	88.3	92.1	94.1	96.0	96.1
155°	84.3	88.1	91.1	92.0	91.1
157.5°	70.0	71.0	72.0	73.0	73.0
160°	67.0	68.0	69.0	69.0	70.0
162.5°	65.0	66.0	66.0	67.0	67.0
165°	63.0	63.0	64.0	64.0	64.0
167.5°	61.0	61.0	62.0	62.0	63.0
170°	59.0	60.0	60.0	60.0	61.0
172.5°	58.0	58.0	59.0	59.0	59.0
175°	57.0	57.0	57.0	58.0	58.0
177.5°	56.0	57.0	57.0	57.0	57.0
180°	57.0	57.0	57.0	57.0	57.0



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	640.5	672.6	730.1	637.5	571.1
110°	592.5	623.8	693.9	677.7	622.3



(END OF REPORT)