

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: P827163

Luminaire Tested: **OHBL-30HE-A-UNV-L840-CD-UPL15**

Issue Date: 5/3/2024



**Test Information**

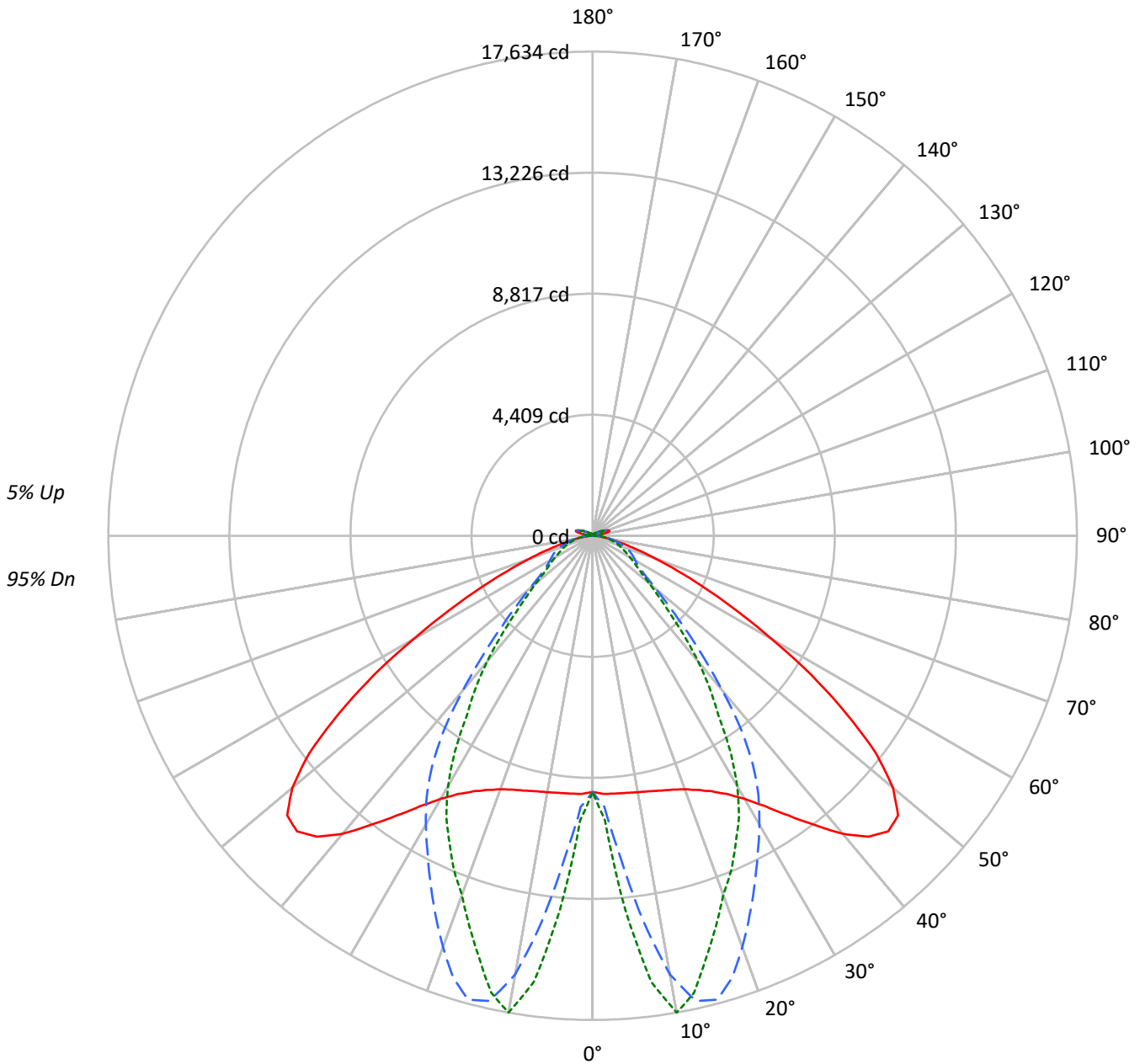
Test Method: LM-79-08  
Report Number: P827163  
REPORT IS A COMBINATION OF REPORTS P826119 AND G3-2310-221-10  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-30HE-A-UNV-L840-CD-UPL15  
Description: 30000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND AISLE LENS AND 1500 LUMEN UPLIGHT MODULE  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 31463.2 lumens  
Efficiency: N/A  
Efficacy: 180.7 lumens/watt  
Spacing Criteria (0/90/45): 2.18 / 1.37 / 1.3  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 174.1  
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	118	118	118	118	115	115	115	115	108	108	108	103	103	103	98	98	98	95																			
1	109	105	102	99	106	103	100	97	98	95	93	93	91	89	89	87	86	83																			
2	101	94	88	84	98	92	87	82	88	83	80	84	80	77	80	77	75	73																			
3	94	85	78	72	91	83	76	71	79	74	69	76	71	68	73	69	66	64																			
4	87	76	69	63	84	75	68	62	72	66	61	69	64	60	66	62	58	56																			
5	81	69	61	56	78	68	61	55	65	59	54	63	57	53	61	56	52	50																			
6	75	63	55	49	73	62	54	49	60	53	48	58	52	48	56	51	47	45																			
7	70	58	50	44	68	57	49	44	55	48	43	53	47	43	51	46	42	40																			
8	65	53	45	40	64	52	45	40	51	44	39	49	43	39	48	42	38	37																			
9	61	49	42	37	60	48	41	36	47	40	36	46	40	36	44	39	35	33																			
10	58	46	38	33	56	45	38	33	44	37	33	42	37	33	41	36	32	31																			

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

	0°	45°	90°
0°	14757	14757	14757
5°	14842	18569	21633
10°	14984	25612	28099
15°	15351	27914	25790
20°	15996	25912	23048
25°	17175	23315	21082
30°	19166	21005	18747
35°	22549	18395	14938
40°	27138	14018	11889
45°	31160	9557	8462
50°	31627	6561	6258
55°	27414	5168	5113
60°	20512	4842	4600
65°	14090	4864	4357
70°	9036	4702	4220
75°	5456	4365	4038
80°	3233	3853	4166
85°	1577	3339	3862



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1218.2	3.9
10°-20°	4299.7	13.7
20°-30°	6335.8	20.1
30°-40°	6657.9	21.2
40°-50°	5094.6	16.2
50°-60°	3076.3	9.8
60°-70°	1877.2	6.0
70°-80°	1024.6	3.3
80°-90°	363.5	1.2
90°-100°	145.6	0.5
100°-110°	504.6	1.6
110°-120°	433.6	1.4
120°-130°	208.1	0.7
130°-140°	104.0	0.3
140°-150°	60.4	0.2
150°-160°	35.2	0.1
160°-170°	18.3	0.1
170°-180°	5.6	0.0
0°-30°	11853.7	37.7
0°-40°	18511.6	58.8
0°-60°	26682.5	84.8
0°-90°	29947.8	95.2
90°-120°	1083.8	3.4
90°-150°	1456.3	4.6
90°-180°	1515.0	4.8
0°-180°	31463.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	9331	9331	9331	9331	9331	
5°	9425	10112	11796	13171	13679	901
15°	9609	14966	17491	16322	15938	2732
25°	10268	17369	13964	12642	12330	4799
35°	12437	13909	10173	8472	7976	7890
45°	15223	7937	4686	4124	3950	11502
55°	11258	2691	2133	1977	1971	9948
65°	4513	1704	1569	1343	1274	4624
75°	1202	1060	972	802	770	1383
85°	179	328	387	353	320	221
90°	3	22	29	38	43	12
95°	28	72	107	142	165	100
105°	633	624	532	376	345	599
115°	436	436	440	438	429	440
125°	211	223	229	227	226	199
135°	125	129	132	134	135	99
145°	91	93	95	97	97	58
155°	73	74	76	76	77	34
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°	9331.4	9331.4	9331.4	9331.4	9331.4
2.5°	9407.8	9503.8	9882.4	10275.3	10370.9
5°	9425.0	10111.6	11795.9	13171.1	13679.3
7.5°	9445.0	11096.4	14166.7	15850.5	16389.5
10°	9483.0	12341.6	16221.0	17429.9	17633.6
12.5°	9530.2	13660.9	17351.5	17307.4	17050.5
15°	9608.7	14965.8	17490.7	16321.5	15937.7
17.5°	9691.1	16069.8	16883.3	15248.3	14914.2
20°	9825.1	16889.3	15938.5	14294.4	13914.6
22.5°	10018.4	17339.9	14947.8	13431.6	13184.0
25°	10267.7	17369.1	13963.8	12642.2	12330.0
27.5°	10601.8	16966.1	13020.7	11868.7	11539.0
30°	11056.4	16194.6	12144.4	10935.9	10527.0
32.5°	11673.8	15084.2	11240.9	9809.9	9351.4
35°	12437.3	13909.4	10172.9	8471.9	7976.5
37.5°	13270.4	12604.9	8876.8	7287.0	6998.5
40°	14166.7	11260.9	7340.6	6178.2	5971.8
42.5°	14866.2	9799.5	5913.7	5134.3	4914.6
45°	15222.7	7936.9	4686.1	4123.5	3950.2
47.5°	15083.8	6161.0	3714.9	3276.4	3224.4
50°	14273.5	4549.2	2973.9	2699.0	2677.4
52.5°	13006.7	3390.8	2456.5	2286.4	2249.2
55°	11257.7	2691.4	2133.2	1977.1	1971.1
57.5°	9451.8	2286.4	1936.3	1815.5	1773.4
60°	7525.5	2038.7	1787.0	1650.6	1565.4
62.5°	5898.9	1865.5	1677.4	1492.1	1412.5
65°	4513.2	1703.8	1569.4	1342.9	1274.5
67.5°	3364.4	1549.8	1437.3	1186.0	1146.0
70°	2451.3	1391.7	1286.9	1054.8	1023.2
72.5°	1747.0	1234.0	1136.4	931.5	896.7
75°	1201.6	1059.6	972.0	801.9	769.5
77.5°	810.7	881.5	809.9	684.6	671.0
80°	541.4	699.1	655.0	580.2	571.8
82.5°	328.5	507.4	517.0	471.8	449.0
85°	178.9	328.5	387.3	352.9	320.1
87.5°	70.0	182.1	266.9	239.7	225.7
90°	3.0	22.0	29.0	38.0	43.0
92.5°	10.0	28.0	46.0	64.0	74.0
95°	28.0	72.0	107.0	142.0	165.0
97.5°	166.0	187.0	204.0	235.0	253.0
100°	337.0	364.0	299.0	314.0	321.0
102.5°	542.0	524.0	387.0	348.0	342.0
105°	633.0	624.0	532.0	376.0	345.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	509.0	516.0	507.0	489.0	471.0
115°	436.0	436.0	440.0	438.0	429.0
117.5°	374.0	372.0	376.0	374.0	372.0
120°	312.0	316.0	317.0	315.0	314.0
122.5°	258.0	266.0	271.0	268.0	267.0
125°	211.0	223.0	229.0	227.0	226.0
127.5°	180.0	187.0	195.0	195.0	193.0
130°	156.0	161.0	167.0	168.0	168.0
132.5°	139.0	143.0	148.0	149.0	150.0
135°	125.0	129.0	132.0	134.0	135.0
137.5°	115.0	117.0	121.0	122.0	123.0
140°	105.0	108.0	111.0	112.0	113.0
142.5°	98.0	100.0	102.0	104.0	104.0
145°	91.0	93.0	95.0	97.0	97.0
147.5°	86.0	88.0	90.0	90.0	91.0
150°	81.0	83.0	84.0	85.0	85.0
152.5°	77.0	78.0	80.0	80.0	81.0
155°	73.0	74.0	76.0	76.0	77.0
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°	633.0	634.0	587.0	452.0	379.0
110°	584.0	589.0	563.0	512.0	450.0



(END OF REPORT)