

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: P827167

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

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P827167  
REPORT IS A COMBINATION OF REPORTS P826121 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-MFL-UNV-L840-CD-UPL15  
Description: 30000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND MEDIUM FROSTED LENS AND 1500 LUMEN UPLIGHT MODULE  
Light Source: -  
Ballast/Driver: -

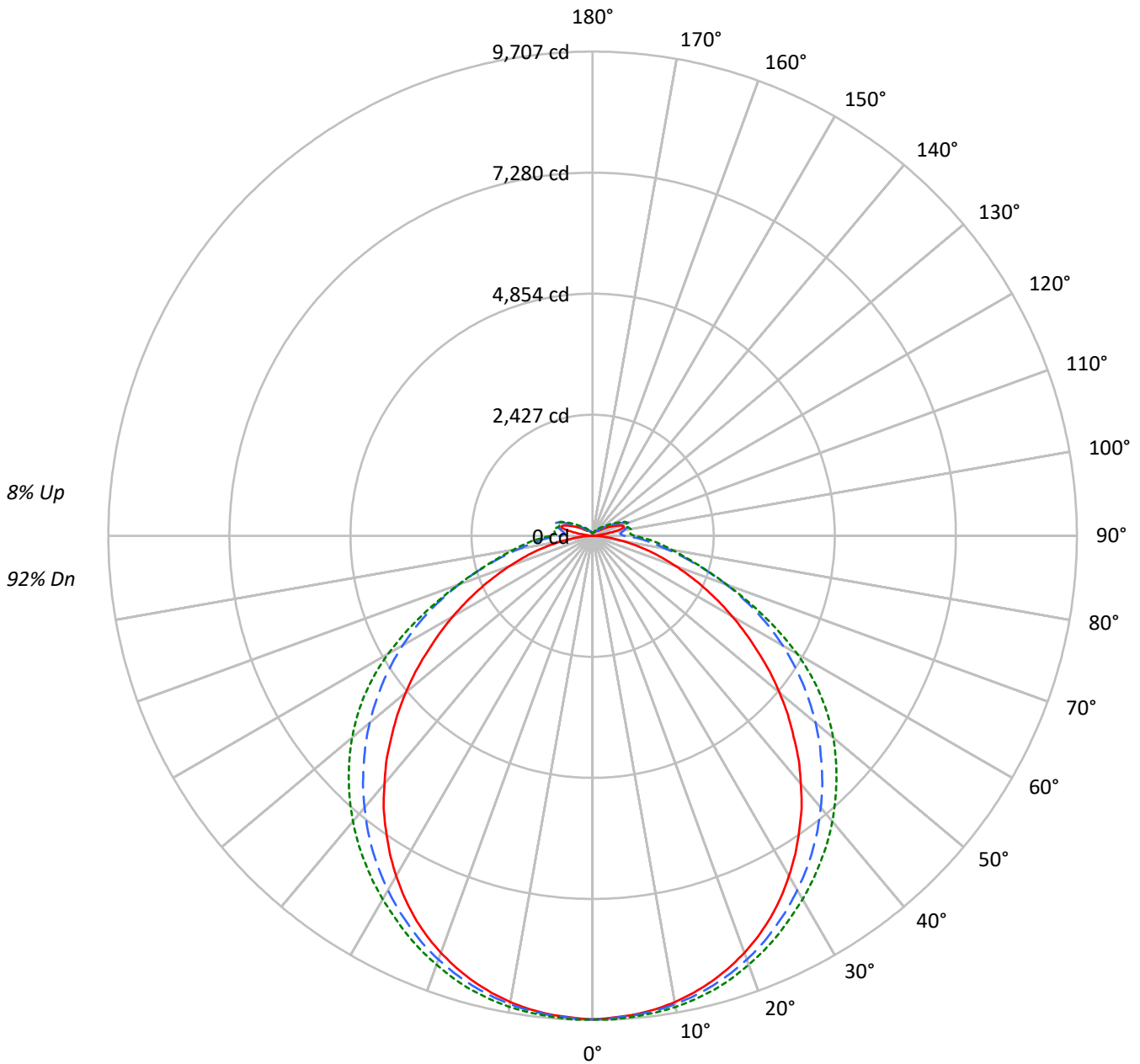
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30541.2 lumens  
Efficiency: N/A  
Efficacy: 175.4 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38  
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	117	117	117	117	113	113	113	113	107	107	107	100	100	100	95	95	95	92																			
1	106	101	97	93	103	98	94	91	93	89	86	87	85	82	82	80	78	76																			
2	97	88	81	75	93	86	79	74	81	75	71	76	72	68	72	69	65	63																			
3	88	77	69	63	85	75	68	61	71	65	59	67	62	57	64	59	55	53																			
4	80	68	60	53	78	67	58	52	63	56	50	60	54	49	57	52	47	45																			
5	74	61	52	45	71	59	51	45	56	49	44	54	47	42	51	46	41	39																			
6	68	55	46	40	66	54	45	39	51	44	38	49	42	37	46	41	36	34																			
7	63	50	41	35	61	49	40	35	46	39	34	44	38	33	42	36	32	30																			
8	59	45	37	31	57	44	36	31	42	35	30	40	34	29	39	33	29	27																			
9	55	42	33	28	53	41	33	28	39	32	27	37	31	27	36	30	26	24																			
10	52	38	30	25	50	38	30	25	36	29	25	35	28	24	33	28	24	22																			

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

	0°	45°	90°
0°	15336	15336	15336
5°	15174	15191	15301
10°	15003	15057	15286
15°	14772	14897	15246
20°	14486	14701	15158
25°	14125	14456	15071
30°	13650	14190	14987
35°	13089	13909	14930
40°	12429	13582	14883
45°	11664	13228	14809
50°	10833	12870	14712
55°	9830	12431	14485
60°	8804	11915	13913
65°	7691	11255	12885
70°	6491	10414	11785
75°	5270	9442	11207
80°	3784	8740	11740
85°	2134	9084	14719



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	918.9	3.0
10°-20°	2636.1	8.6
20°-30°	3986.6	13.1
30°-40°	4786.0	15.7
40°-50°	4943.1	16.2
50°-60°	4447.3	14.6
60°-70°	3350.1	11.0
70°-80°	2022.9	6.6
80°-90°	993.2	3.3
90°-100°	562.1	1.8
100°-110°	742.3	2.4
110°-120°	573.1	1.9
120°-130°	287.0	0.9
130°-140°	145.6	0.5
140°-150°	80.6	0.3
150°-160°	42.7	0.1
160°-170°	18.3	0.1
170°-180°	5.6	0.0
0°-30°	7541.5	24.7
0°-40°	12327.5	40.4
0°-60°	21717.9	71.1
0°-90°	28084.0	92.0
90°-120°	1877.5	6.1
90°-150°	2390.7	7.8
90°-180°	2457.0	8.0
0°-180°	30541.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	9697	9697	9697	9697	9697	
5°	9636	9662	9650	9688	9676	915
15°	9246	9291	9334	9412	9422	2607
25°	8444	8537	8658	8793	8814	3884
35°	7220	7388	7692	7924	7972	4513
45°	5698	5985	6486	6840	6913	4399
55°	4037	4455	5131	5518	5584	3619
65°	2464	2967	3631	3812	3769	2447
75°	1160	1666	2103	2157	2136	1238
85°	242	638	1054	1198	1220	280
90°	3	271	632	797	833	17
95°	40	240	558	716	761	110
105°	650	721	793	718	701	616
115°	455	491	601	654	654	460
125°	230	249	326	367	373	216
135°	142	150	182	219	230	112
145°	115	114	119	140	147	72
155°	97	100	100	97	101	42
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°	9697.2	9697.2	9697.2	9697.2	9697.2
2.5°	9668.7	9692.4	9678.2	9709.0	9706.7
5°	9635.5	9661.6	9649.7	9687.7	9675.8
7.5°	9578.5	9607.0	9604.6	9647.3	9642.6
10°	9495.4	9526.3	9535.8	9592.7	9592.7
12.5°	9381.5	9421.9	9445.6	9514.4	9516.8
15°	9246.3	9291.3	9334.1	9412.4	9421.9
17.5°	9082.5	9139.5	9198.8	9289.0	9300.8
20°	8897.4	8961.5	9042.2	9137.1	9151.3
22.5°	8683.8	8759.7	8864.2	8975.7	8992.3
25°	8444.1	8536.6	8657.7	8793.0	8814.3
27.5°	8171.2	8278.0	8441.7	8593.6	8612.6
30°	7874.5	8000.3	8204.4	8384.8	8415.6
32.5°	7561.2	7706.0	7957.6	8159.3	8202.0
35°	7219.5	7388.0	7691.8	7924.3	7971.8
37.5°	6882.5	7067.6	7411.7	7677.5	7734.5
40°	6488.5	6718.7	7112.7	7407.0	7475.8
42.5°	6118.3	6367.5	6813.7	7134.0	7200.5
45°	5698.2	5985.4	6486.1	6839.8	6913.3
47.5°	5304.3	5615.2	6170.5	6536.0	6611.9
50°	4888.9	5230.7	5833.5	6215.6	6293.9
52.5°	4473.6	4841.5	5484.6	5881.0	5954.5
55°	4036.9	4454.6	5131.0	5517.8	5584.3
57.5°	3631.1	4072.5	4767.9	5135.8	5176.1
60°	3230.0	3688.1	4397.7	4720.4	4734.7
62.5°	2838.4	3320.2	4017.9	4274.3	4255.3
65°	2463.5	2966.6	3631.1	3811.5	3768.7
67.5°	2102.7	2622.5	3234.8	3351.1	3294.1
70°	1761.0	2287.8	2850.3	2909.6	2857.4
72.5°	1459.6	1969.8	2461.1	2510.9	2472.9
75°	1160.5	1666.0	2102.7	2157.3	2135.9
77.5°	880.5	1371.7	1772.8	1844.0	1848.8
80°	633.7	1103.6	1485.7	1597.2	1611.4
82.5°	417.7	856.7	1246.0	1388.4	1409.7
85°	242.1	638.4	1053.7	1198.5	1219.9
87.5°	104.4	460.4	847.3	977.8	1003.9
90°	3.0	271.2	631.8	797.4	833.3
92.5°	17.1	234.5	563.4	723.8	759.9
95°	39.9	240.5	557.9	716.3	760.7
97.5°	180.2	329.4	595.6	735.8	775.1
100°	351.2	487.4	638.4	753.1	779.0
102.5°	556.2	633.2	683.7	732.5	743.1
105°	649.6	721.3	793.1	717.8	701.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	528.0	580.1	687.4	731.1	722.6
115°	455.0	490.6	601.4	654.0	654.5
117.5°	395.4	419.5	518.4	568.6	573.7
120°	333.4	356.3	442.8	488.2	496.7
122.5°	279.4	299.2	382.5	424.6	430.8
125°	230.0	249.1	326.3	367.0	373.1
127.5°	196.6	208.4	278.1	320.8	325.9
130°	172.6	180.0	238.2	279.5	286.7
132.5°	155.6	164.4	207.3	246.3	256.8
135°	141.6	150.4	181.8	219.4	229.9
137.5°	131.6	138.4	161.3	195.6	206.1
140°	124.0	129.4	144.2	173.7	184.2
142.5°	119.4	121.4	128.1	156.2	163.3
145°	114.7	114.4	118.7	139.7	146.8
147.5°	109.7	111.7	113.7	123.2	131.3
150°	104.7	109.1	107.7	111.1	118.2
152.5°	100.7	104.1	103.7	101.4	107.1
155°	96.7	100.1	99.7	97.4	100.7
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°	649.6	719.4	817.2	755.8	694.6
110°	600.6	664.9	767.1	782.6	732.4



(END OF REPORT)