

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: P827170

Luminaire Tested: **OHBL-30HE-N-UNV-L840-CD-UPL30**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P827170
REPORT IS A COMBINATION OF REPORTS P826278 AND G3-2310-221-4
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-30HE-N-UNV-L840-CD-UPL30
Description: 30000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND NARROW LENS AND 3000 LUMEN UPLIGHT MODULE
Light Source: -
Ballast/Driver: -

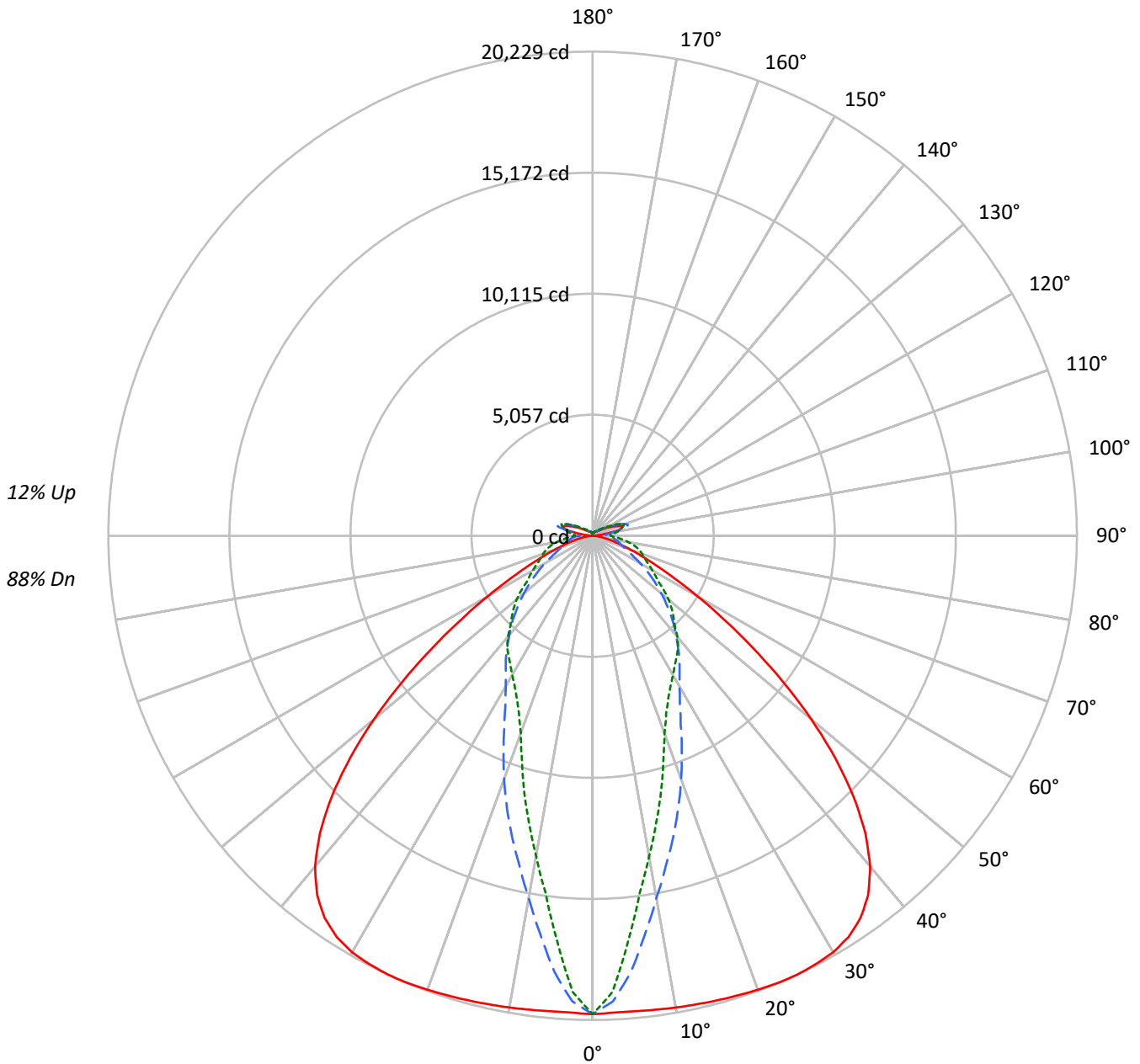
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32556.9 lumens
Efficiency: N/A
Efficacy: 174.1 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 187
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

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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	61	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°	31604	31604	31604
5°	31407	28794	26889
10°	31627	24265	21667
15°	32106	20762	17872
20°	32861	17563	14530
25°	33838	14545	12800
30°	34832	12537	11960
35°	35363	11432	11466
40°	34547	10333	10954
45°	31562	9344	10222
50°	26415	8262	9683
55°	19879	7244	8712
60°	13764	6220	8456
65°	9115	5365	8427
70°	6092	5045	9060
75°	4094	5218	10040
80°	2669	5807	10988
85°	1392	7329	13103



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1682.2	5.2
10°-20°	3957.3	12.2
20°-30°	4960.4	15.2
30°-40°	5263.6	16.2
40°-50°	4759.1	14.6
50°-60°	3450.7	10.6
60°-70°	2165.5	6.7
70°-80°	1433.0	4.4
80°-90°	832.1	2.6
90°-100°	636.7	2.0
100°-110°	1346.3	4.1
110°-120°	1051.5	3.2
120°-130°	498.3	1.5
130°-140°	247.6	0.8
140°-150°	143.3	0.4
150°-160°	80.8	0.2
160°-170°	37.3	0.1
170°-180°	11.4	0.0
0°-30°	10600.0	32.6
0°-40°	15863.6	48.7
0°-60°	24073.4	73.9
0°-90°	28503.9	87.6
90°-120°	3034.4	9.3
90°-150°	3923.5	12.1
90°-180°	4053.0	12.4
0°-180°	32556.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	19984	19984	19984	19984	19984	
5°	19944	19432	18291	17443	17003	###
15°	20096	16380	13009	11570	11045	5699
25°	20229	12665	8711	7731	7486	9346
35°	19504	8420	6322	6124	6122	12125
45°	15419	5333	4582	4692	4772	11746
55°	8163	3306	2990	3243	3359	7376
65°	2920	1917	1731	2218	2465	3038
75°	902	1033	1162	1805	1913	1005
85°	158	428	850	1183	1086	189
90°	7	220	547	755	761	15
95°	65	240	574	767	806	213
105°	1292	1371	1504	1310	1215	1221
115°	903	941	1094	1151	1139	904
125°	457	477	567	584	576	425
135°	274	283	314	345	345	216
145°	209	214	222	240	238	132
155°	172	180	184	188	184	77
165°	128	129	130	132	132	37
175°	116	117	117	118	118	11
180°	115	115	115	115	115	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	19983.8	19983.8	19983.8	19983.8	19983.8
2.5°	19941.9	19827.8	19472.1	19255.3	19072.7
5°	19943.8	19432.2	18291.0	17442.8	17003.4
7.5°	19972.3	18835.0	16779.0	15540.8	15057.7
10°	20016.1	18095.1	15367.7	14047.8	13597.0
12.5°	20048.4	17262.1	14125.8	12769.7	12275.2
15°	20096.0	16379.6	13009.3	11569.5	11044.6
17.5°	20139.7	15548.4	11906.2	10401.7	9817.9
20°	20183.5	14652.6	10803.1	9253.0	8771.8
22.5°	20225.3	13707.3	9726.6	8361.0	8031.9
25°	20229.1	12665.1	8710.9	7731.4	7486.1
27.5°	20179.7	11584.8	7887.4	7204.6	7052.4
30°	20094.1	10536.8	7248.3	6824.2	6715.8
32.5°	19881.1	9467.9	6753.8	6457.1	6394.3
35°	19504.5	8419.9	6322.1	6124.3	6122.4
37.5°	18911.1	7489.9	5854.2	5820.0	5861.8
40°	18034.3	6675.8	5411.0	5502.3	5502.3
42.5°	16864.6	5968.3	5009.7	5102.9	5078.2
45°	15419.1	5333.1	4581.8	4692.1	4772.0
47.5°	13743.5	4773.9	4144.3	4357.4	4467.7
50°	11921.4	4241.3	3744.9	4016.9	4142.4
52.5°	10011.8	3748.7	3355.0	3667.0	3767.8
55°	8163.2	3305.6	2989.9	3242.8	3358.8
57.5°	6489.4	2883.4	2632.3	2871.9	3111.6
60°	5049.7	2520.1	2295.7	2638.0	2877.6
62.5°	3857.1	2196.7	1979.9	2419.3	2658.9
65°	2919.5	1917.2	1730.8	2217.7	2464.9
67.5°	2200.6	1675.6	1536.8	2071.2	2312.8
70°	1652.8	1441.7	1380.8	1979.9	2196.7
72.5°	1221.1	1226.8	1257.2	1900.0	2065.5
75°	901.5	1032.8	1162.1	1804.9	1913.4
77.5°	644.8	855.9	1076.5	1690.8	1728.9
80°	447.0	698.0	987.1	1540.6	1508.2
82.5°	279.6	559.2	907.2	1375.1	1285.7
85°	157.9	427.9	850.2	1183.0	1086.0
87.5°	70.4	319.5	743.7	922.4	861.6
90°	7.0	219.8	546.6	755.2	760.9
92.5°	24.8	199.4	520.6	716.3	737.3
95°	64.6	240.5	573.6	766.6	806.2
97.5°	357.5	456.3	707.0	896.8	958.6
100°	698.4	824.9	915.7	1054.0	1078.0
102.5°	1097.3	1195.3	1206.3	1172.4	1157.6
105°	1292.2	1370.7	1503.7	1310.4	1214.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1043.0	1096.7	1270.7	1320.5	1306.0
115°	902.9	941.0	1094.0	1151.3	1139.0
117.5°	766.8	800.4	937.4	976.9	970.8
120°	648.8	680.6	792.8	826.7	818.7
122.5°	545.8	576.0	676.1	697.5	686.6
125°	456.8	477.4	567.4	583.9	576.0
127.5°	388.9	401.7	473.5	499.1	492.2
130°	337.9	349.7	405.4	434.0	433.0
132.5°	301.0	311.8	353.1	382.7	381.7
135°	274.0	282.8	313.5	345.2	345.2
137.5°	250.0	262.7	282.9	311.7	311.7
140°	233.0	241.8	258.2	283.1	284.1
142.5°	219.9	225.8	238.4	259.5	260.5
145°	208.8	213.7	222.5	239.7	237.8
147.5°	196.8	204.6	210.5	222.0	220.1
150°	187.8	196.5	200.5	207.2	206.3
152.5°	179.8	187.5	190.5	196.3	194.4
155°	171.8	180.5	184.4	188.3	184.5
157.5°	143.0	145.0	147.0	148.0	149.0
160°	138.0	139.0	141.0	142.0	143.0
162.5°	132.0	134.0	135.0	136.0	137.0
165°	128.0	129.0	130.0	132.0	132.0
167.5°	124.0	125.0	126.0	127.0	127.0
170°	121.0	122.0	123.0	123.0	123.0
172.5°	118.0	119.0	120.0	120.0	120.0
175°	116.0	117.0	117.0	118.0	118.0
177.5°	115.0	116.0	116.0	116.0	117.0
180°	115.0	115.0	115.0	115.0	115.0



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	1291.2	1372.0	1536.1	1466.7	1340.0
110°	1187.1	1261.4	1430.4	1449.7	1393.1



(END OF REPORT)