

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: P827165

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

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P827165
REPORT IS A COMBINATION OF REPORTS P826120 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-MCL-UNV-L840-CD-UPL15
Description: 30000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND MEDIUM CLEAR LENS AND 1500 LUMEN UPLIGHT MODULE
Light Source: -
Ballast/Driver: -

Summary

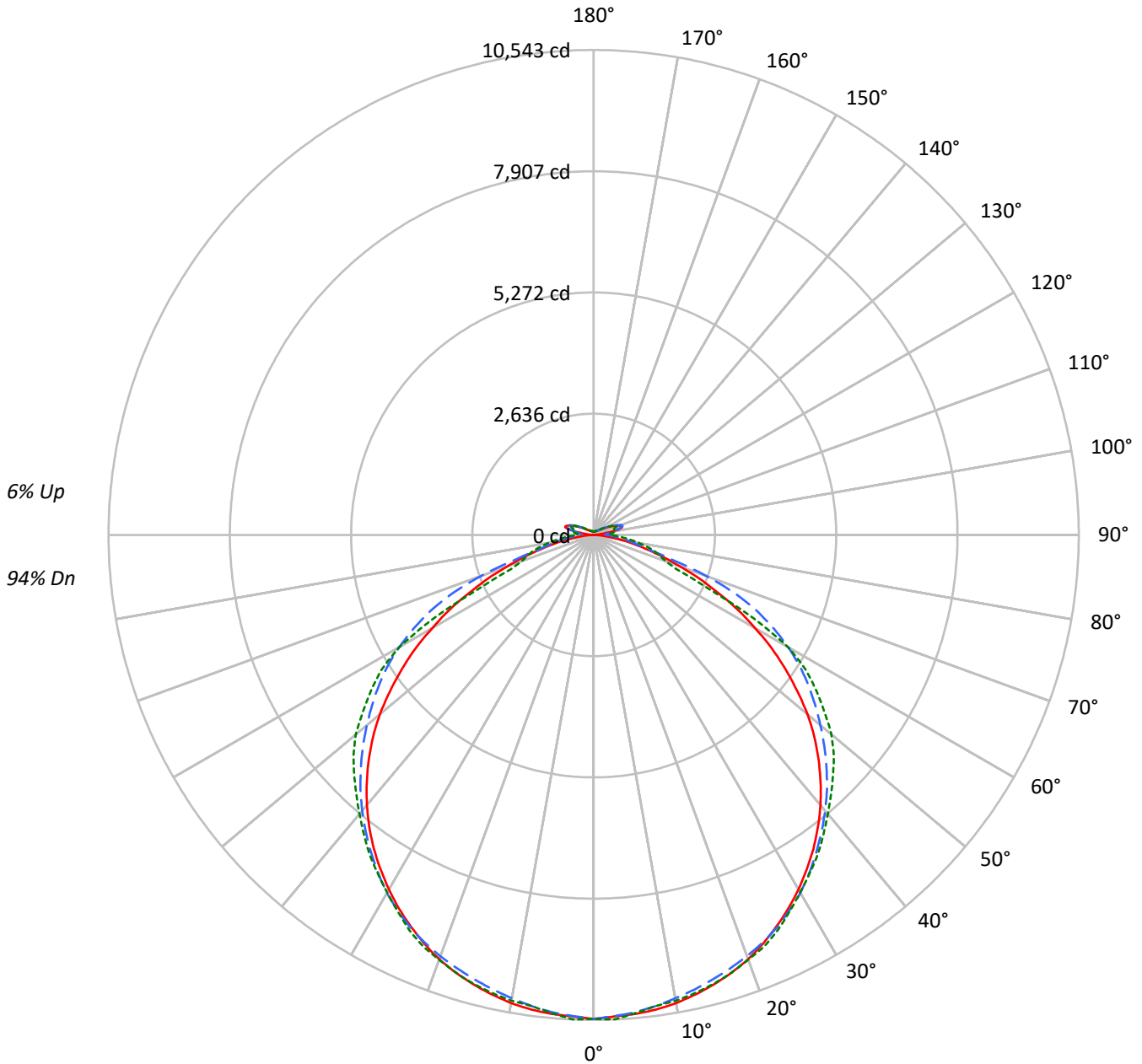
Lumens per Lamp: N/A
Luminaire Lumens: 31257.2 lumens
Efficiency: N/A
Efficacy: 179.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')
CIE Type: Direct

Input Watts (W): 174.1
Input Voltage (V): NR
Input Current (A_{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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	94																			
1	108	103	99	95	104	100	97	93	95	92	89	90	88	85	86	84	82	79																			
2	98	90	84	78	95	88	82	77	83	78	74	79	75	71	75	72	69	67																			
3	90	79	71	65	87	77	70	64	74	67	62	70	65	60	67	62	59	56																			
4	82	70	62	55	79	69	61	54	65	59	53	62	56	52	60	55	50	48																			
5	75	63	54	47	73	61	53	47	59	51	46	56	50	45	54	48	44	42																			
6	70	56	48	41	67	55	47	41	53	46	40	51	44	39	49	43	39	36																			
7	64	51	43	36	62	50	42	36	48	41	35	46	40	35	44	39	34	32																			
8	60	47	38	32	58	46	38	32	44	37	32	42	36	31	41	35	31	29																			
9	56	43	35	29	54	42	34	29	40	33	28	39	33	28	37	32	28	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°	16639	16639	16639
5°	16461	16398	16501
10°	16331	16149	16387
15°	16158	15963	16348
20°	15983	15846	16276
25°	15716	15728	16208
30°	15430	15543	15981
35°	15098	15248	15898
40°	14688	14944	15761
45°	14147	14591	15766
50°	13443	14190	15768
55°	12384	13796	15327
60°	11034	13218	14341
65°	9319	12147	9232
70°	7346	9482	6839
75°	5333	5629	7168
80°	3515	4680	7227
85°	1783	4289	7599



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	992.1	3.2
10°-20°	2844.8	9.1
20°-30°	4344.9	13.9
30°-40°	5271.8	16.9
40°-50°	5525.4	17.7
50°-60°	5006.8	16.0
60°-70°	3356.9	10.7
70°-80°	1507.4	4.8
80°-90°	550.8	1.8
90°-100°	310.3	1.0
100°-110°	582.3	1.9
110°-120°	472.5	1.5
120°-130°	229.6	0.7
130°-140°	118.8	0.4
140°-150°	70.3	0.2
150°-160°	42.6	0.1
160°-170°	23.0	0.1
170°-180°	7.1	0.0
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0°-30°	8181.7	26.2
0°-40°	13453.5	43.0
0°-60°	23985.7	76.7
0°-90°	29400.8	94.1
90°-120°	1365.1	4.4
90°-150°	1783.8	5.7
90°-180°	1856.0	5.9
0°-180°	31257.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10521	10521	10521	10521	10521	
5°	10453	10489	10416	10448	10435	994
15°	10114	10074	10003	10091	10103	2855
25°	9396	9354	9420	9507	9479	4331
35°	8328	8347	8433	8522	8489	5205
45°	6911	7024	7155	7337	7360	5324
55°	5086	5331	5694	5922	5909	4540
65°	2985	3452	3919	3307	2700	2974
75°	1174	1704	1254	1282	1366	1283
85°	202	388	498	601	630	247
90°	4	151	286	360	381	14
95°	30	153	284	356	386	102
105°	639	659	619	481	454	606
115°	448	454	484	494	488	452
125°	222	235	256	259	260	210
135°	139	144	149	158	161	110
145°	105	108	110	114	115	67
155°	88	91	93	93	92	41
165°	80	80	81	81	81	23
175°	74	74	72	72	72	7
180°	72	72	72	72	72	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10521.3	10521.3	10521.3	10521.3	10521.3
2.5°	10478.7	10522.9	10468.1	10527.4	10542.6
5°	10452.9	10489.4	10416.4	10448.3	10434.6
7.5°	10405.7	10417.9	10331.2	10357.0	10329.6
10°	10335.7	10329.6	10227.7	10277.9	10284.0
12.5°	10232.3	10214.0	10122.7	10198.8	10200.3
15°	10113.6	10074.1	10002.6	10090.8	10103.0
17.5°	9976.7	9925.0	9877.8	9991.9	9973.7
20°	9817.0	9756.1	9747.0	9871.7	9826.1
22.5°	9619.2	9572.0	9593.3	9712.0	9683.1
25°	9395.6	9354.5	9419.9	9506.6	9479.2
27.5°	9159.8	9135.4	9210.0	9276.9	9223.7
30°	8901.1	8887.5	8986.3	9041.1	8974.2
32.5°	8619.7	8624.3	8718.6	8793.1	8730.8
35°	8327.6	8347.4	8432.6	8522.3	8488.9
37.5°	8006.6	8050.7	8135.9	8237.9	8202.9
40°	7667.4	7731.3	7825.6	7948.8	7916.9
42.5°	7300.7	7381.4	7503.1	7640.0	7636.9
45°	6911.3	7023.9	7154.7	7337.2	7360.1
47.5°	6506.6	6632.9	6798.7	7042.1	7077.1
50°	6067.0	6225.2	6432.1	6724.2	6745.5
52.5°	5577.1	5793.1	6067.0	6346.9	6321.0
55°	5085.7	5330.6	5694.2	5922.4	5908.7
57.5°	4595.9	4871.2	5312.4	5475.2	5473.6
60°	4048.2	4396.6	4878.8	5002.0	4880.3
62.5°	3541.6	3915.8	4416.3	4326.6	3909.7
65°	2984.8	3451.8	3918.9	3307.3	2700.3
67.5°	2490.4	2977.2	3328.6	2265.2	1939.7
70°	1992.9	2529.9	2595.3	1681.0	1658.2
72.5°	1551.7	2123.7	1790.6	1439.2	1512.2
75°	1174.4	1703.9	1253.6	1282.5	1366.1
77.5°	856.5	1308.3	975.2	1124.2	1192.7
80°	588.7	926.5	795.6	944.7	991.9
82.5°	369.7	611.6	637.4	760.7	809.3
85°	202.3	387.9	497.5	600.9	629.8
87.5°	83.7	234.3	380.3	464.0	488.3
90°	4.5	151.3	286.1	360.5	380.7
92.5°	11.5	126.9	255.9	324.1	344.8
95°	29.5	152.6	283.5	356.5	385.6
97.5°	169.0	250.9	351.6	413.0	437.1
100°	341.6	417.2	422.2	463.1	474.7
102.5°	548.1	566.6	490.4	472.7	471.3
105°	639.1	659.0	618.7	481.0	454.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	519.6	537.3	558.7	554.4	539.5
115°	448.2	454.3	484.1	494.3	488.3
117.5°	386.2	387.2	414.0	421.2	422.2
120°	324.2	329.7	350.5	356.1	356.6
122.5°	270.2	278.2	299.9	304.5	305.0
125°	221.6	235.2	256.4	258.9	259.5
127.5°	192.2	199.2	219.3	223.9	223.4
130°	168.2	174.7	188.3	195.4	195.4
132.5°	152.7	158.2	167.8	174.9	175.9
135°	138.7	144.2	148.7	158.3	160.9
137.5°	130.2	132.2	136.2	144.8	147.3
140°	120.2	123.2	124.7	131.8	134.3
142.5°	111.7	115.2	115.7	122.3	123.8
145°	104.7	108.2	110.2	113.7	115.3
147.5°	101.2	103.2	105.2	105.2	107.7
150°	96.2	98.2	99.2	100.2	100.2
152.5°	92.2	93.2	95.2	95.2	96.2
155°	88.2	90.7	92.7	92.7	92.2
157.5°	85.2	87.7	88.7	89.7	89.7
160°	82.2	84.7	85.7	85.7	86.7
162.5°	81.7	82.7	82.7	83.7	83.7
165°	79.7	79.7	80.7	80.7	80.7
167.5°	77.7	79.3	78.7	78.7	79.7
170°	75.7	76.7	76.7	75.2	76.2
172.5°	74.7	74.7	75.7	74.2	74.2
175°	73.7	73.7	72.2	71.7	71.7
177.5°	74.3	73.7	72.2	70.7	69.2
180°	72.2	72.2	72.2	72.2	72.2



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	640.6	662.9	661.5	541.8	471.8
110°	593.1	613.3	625.4	588.1	529.1



(END OF REPORT)