

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: P827166

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P827166
REPORT IS A COMBINATION OF REPORTS P826276 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-MCL-UNV-L840-CD-UPL30
Description: 30000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND MEDIUM CLEAR LENS AND 3000 LUMEN UPLIGHT MODULE
Light Source: -
Ballast/Driver: -

Summary

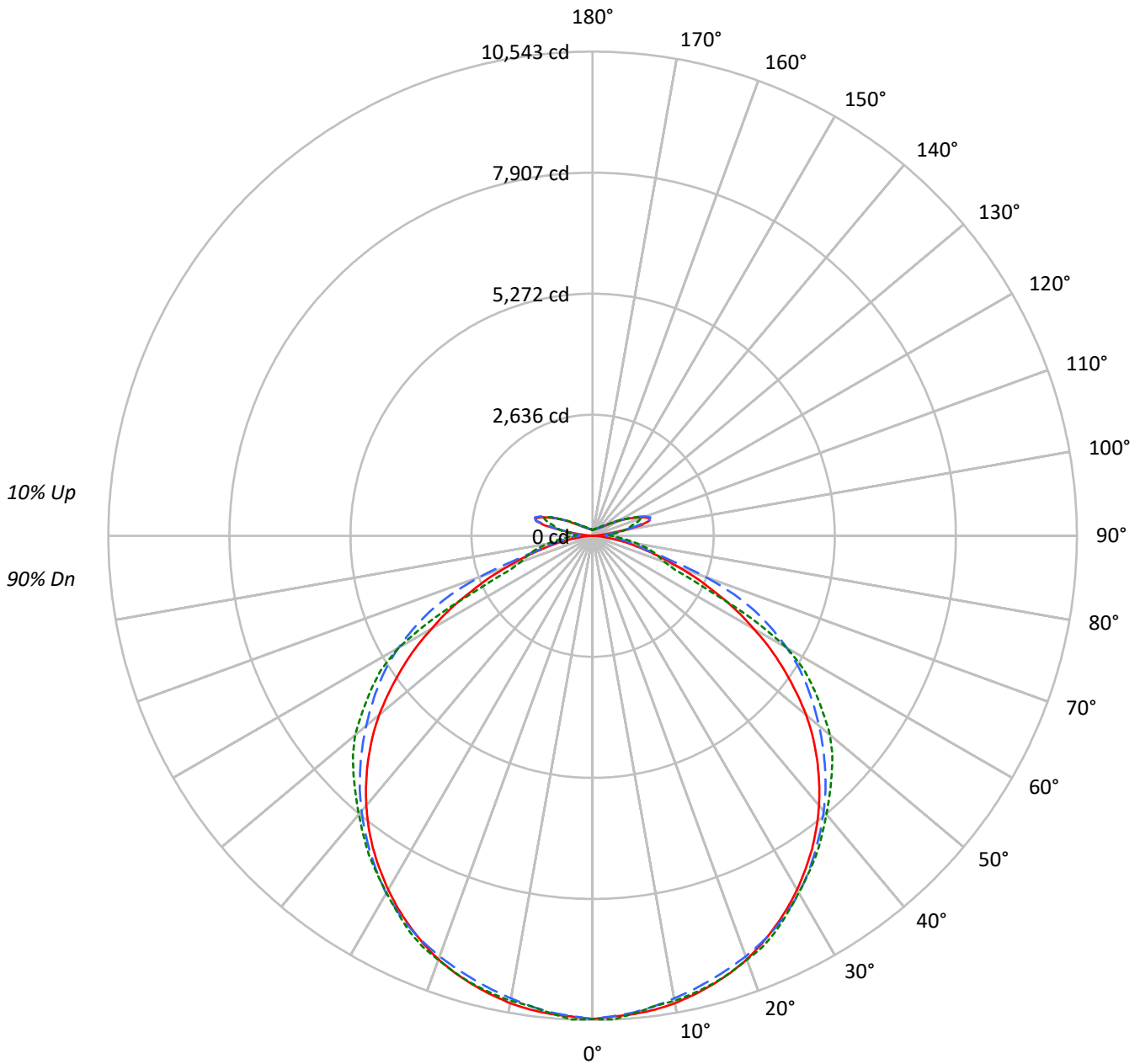
Lumens per Lamp: N/A
Luminaire Lumens: 32800.9 lumens
Efficiency: N/A
Efficacy: 175.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')
CIE Type: Semi-Direct

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				20				20
RC	80				70				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	105	105	105	99	99	99	93	93	93	93	93	93	90
1	107	102	98	94	103	99	95	92	93	90	87	87	85	83	82	80	78	78	78	78	76
2	97	89	83	77	94	87	81	76	81	77	72	77	73	69	72	69	66	66	66	66	63
3	89	79	71	64	85	76	69	63	72	66	61	68	63	58	64	60	56	56	56	56	54
4	81	70	61	55	78	68	60	54	64	57	52	60	55	50	57	52	48	48	48	48	46
5	75	62	53	47	72	60	52	46	57	50	45	54	48	43	51	46	42	42	42	42	40
6	69	56	47	41	66	54	46	40	52	44	39	49	43	38	46	41	37	37	37	37	35
7	64	51	42	36	61	49	41	36	47	40	35	45	38	34	42	37	33	33	33	33	31
8	59	46	38	32	57	45	37	32	43	36	31	41	35	30	39	33	29	29	29	29	27
9	55	42	34	29	53	41	34	28	39	32	28	38	31	27	36	30	26	26	26	26	24
10	52	39	31	26	50	38	31	26	36	30	25	35	29	25	33	28	24	24	24	24	22

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	3.0
10°-20°	2844.8	8.7
20°-30°	4344.9	13.2
30°-40°	5271.8	16.1
40°-50°	5525.4	16.8
50°-60°	5006.8	15.3
60°-70°	3356.9	10.2
70°-80°	1507.4	4.6
80°-90°	553.5	1.7
90°-100°	401.3	1.2
100°-110°	1147.9	3.5
110°-120°	920.0	2.8
120°-130°	437.3	1.3
130°-140°	224.4	0.7
140°-150°	132.5	0.4
150°-160°	79.2	0.2
160°-170°	42.0	0.1
170°-180°	12.9	0.0
0°-30°	8181.7	24.9
0°-40°	13453.5	41.0
0°-60°	23985.7	73.1
0°-90°	29403.4	89.6
90°-120°	2469.3	7.5
90°-150°	3263.4	9.9
90°-180°	3397.0	10.4
0°-180°	32800.9	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°	8	170	311	384	399	17
95°	58	196	316	392	411	208
105°	1283	1322	1275	997	894	1213
115°	894	900	925	941	926	895
125°	445	459	486	479	474	416
135°	269	275	283	295	297	212
145°	200	204	209	213	214	127
155°	164	169	171	173	171	77
165°	145	146	147	149	149	41
175°	133	134	132	132	132	13
180°	130	130	130	130	130	



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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°	8.5	170.3	311.1	383.5	398.7
92.5°	22.5	149.9	275.9	341.1	353.8
95°	58.5	195.6	316.5	391.5	410.6
97.5°	351.0	409.9	447.6	527.0	572.1
100°	691.6	779.2	664.2	699.1	708.7
102.5°	1090.1	1146.6	965.4	838.7	813.3
105°	1283.1	1322.0	1274.7	997.0	894.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1034.6	1053.3	1084.7	1085.4	1064.5
115°	894.2	900.3	925.1	941.3	926.3
117.5°	756.2	764.2	789.0	790.2	785.2
120°	638.2	648.7	666.5	668.1	661.6
122.5°	535.2	550.2	571.9	568.5	561.0
125°	444.6	459.2	486.4	478.9	474.5
127.5°	380.2	389.2	410.3	413.9	410.4
130°	329.2	338.7	356.3	364.4	363.4
132.5°	295.7	304.2	315.8	324.9	323.9
135°	268.7	275.2	282.7	295.3	296.9
137.5°	246.2	253.2	258.2	269.8	271.3
140°	229.2	234.2	237.7	245.8	248.3
142.5°	212.7	218.2	221.7	228.3	230.8
145°	199.7	204.2	209.2	212.7	214.3
147.5°	189.2	193.2	197.2	199.2	200.7
150°	180.2	183.2	187.2	188.2	189.2
152.5°	172.2	174.2	177.2	179.2	179.2
155°	164.2	168.7	170.7	172.7	171.2
157.5°	158.2	161.7	163.7	164.7	165.7
160°	153.2	155.7	157.7	158.7	159.7
162.5°	148.7	150.7	151.7	152.7	153.7
165°	144.7	145.7	146.7	148.7	148.7
167.5°	140.7	143.3	142.7	143.7	143.7
170°	137.7	138.7	139.7	138.2	138.2
172.5°	134.7	135.7	136.7	135.2	135.2
175°	132.7	133.7	132.2	131.7	131.7
177.5°	133.3	132.7	131.2	129.7	129.2
180°	130.2	130.2	130.2	130.2	130.2



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	1283.6	1322.9	1321.5	1181.8	<i>1044.8</i>
110°	1179.1	1215.3	1228.4	1191.1	<i>1124.1</i>



(END OF REPORT)