

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: P827168

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P827168
REPORT IS A COMBINATION OF REPORTS P826277 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-MFL-UNV-L840-CD-UPL30
Description: 30000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND MEDIUM FROSTED LENS AND 3000 LUMEN UPLIGHT MODULE
Light Source: -
Ballast/Driver: -

Summary

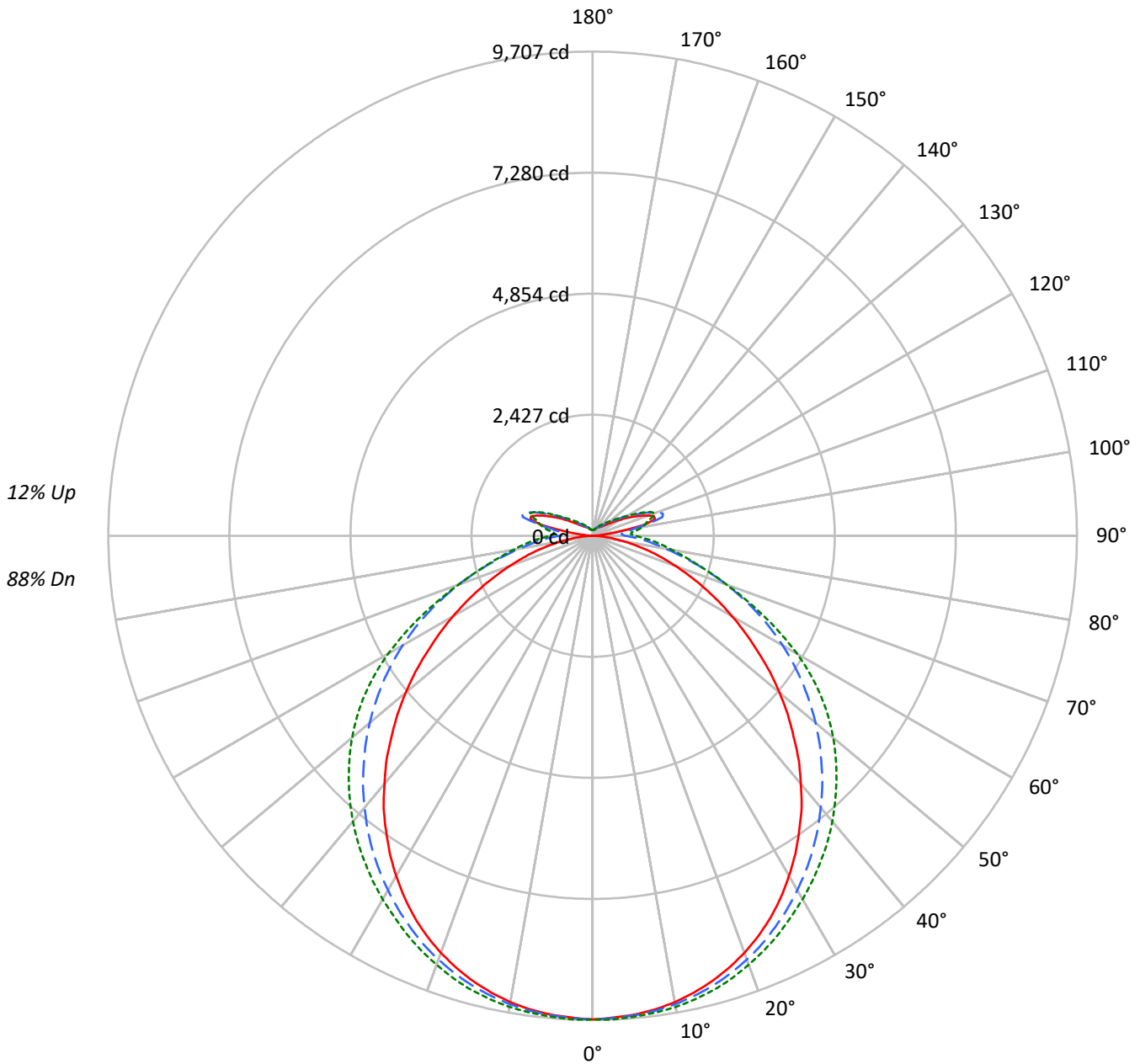
Lumens per Lamp: N/A
Luminaire Lumens: 32085.0 lumens
Efficiency: N/A
Efficacy: 171.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')
CIE Type: Semi-Direct

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	105	100	96	92	101	97	93	89	90	87	84	84	82	79	79	77	75	72																			
2	96	87	80	75	92	84	78	73	79	74	69	74	70	66	69	66	63	60																			
3	87	77	68	62	84	74	67	61	69	63	58	65	60	55	61	57	53	50																			
4	80	68	59	52	77	66	58	51	62	55	49	58	52	47	54	49	45	43																			
5	73	61	52	45	70	59	50	44	55	48	43	52	46	41	49	44	39	37																			
6	68	54	46	39	65	53	45	39	50	43	37	47	41	36	44	39	35	32																			
7	63	49	41	35	60	48	40	34	45	38	33	43	36	32	40	35	31	29																			
8	58	45	36	31	56	44	36	30	41	34	29	39	33	28	37	32	28	25																			
9	54	41	33	28	52	40	32	27	38	31	26	36	30	26	34	29	25	23																			
10	51	38	30	25	49	37	30	25	35	28	24	33	27	23	32	26	23	21																			

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	2.9
10°-20°	2636.1	8.2
20°-30°	3986.6	12.4
30°-40°	4786.0	14.9
40°-50°	4943.1	15.4
50°-60°	4447.3	13.9
60°-70°	3350.1	10.4
70°-80°	2022.9	6.3
80°-90°	995.9	3.1
90°-100°	653.1	2.0
100°-110°	1307.9	4.1
110°-120°	1020.7	3.2
120°-130°	494.7	1.5
130°-140°	251.2	0.8
140°-150°	142.7	0.4
150°-160°	79.3	0.2
160°-170°	37.3	0.1
170°-180°	11.4	0.0
0°-30°	7541.5	23.5
0°-40°	12327.5	38.4
0°-60°	21717.9	67.7
0°-90°	28086.6	87.5
90°-120°	2981.7	9.3
90°-150°	3870.3	12.1
90°-180°	3998.0	12.5
0°-180°	32085.0	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°	7	290	657	820	851	20
95°	69	284	591	751	786	216
105°	1294	1384	1449	1234	1141	1222
115°	901	937	1042	1101	1092	903
125°	453	473	556	587	588	423
135°	272	281	316	356	366	214
145°	210	210	218	239	246	132
155°	173	178	178	177	180	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°	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°	7.0	290.2	656.8	820.4	851.3
92.5°	28.1	257.5	583.4	740.8	768.9
95°	68.9	283.5	590.9	751.3	785.7
97.5°	362.2	488.4	691.6	849.8	910.1
100°	701.2	849.4	880.4	989.1	1013.0
102.5°	1098.2	1213.2	1158.7	1098.5	1085.1
105°	1293.6	1384.3	1449.1	1233.8	1141.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1043.0	1096.1	1213.4	1262.1	1247.6
115°	901.0	936.6	1042.4	1101.0	1092.5
117.5°	765.4	796.5	893.4	937.6	936.7
120°	647.4	675.3	758.8	800.2	801.7
122.5°	544.4	571.2	654.5	688.6	686.8
125°	453.0	473.1	556.3	587.0	588.1
127.5°	384.6	398.4	469.1	510.8	512.9
130°	333.6	344.0	406.2	448.5	454.7
132.5°	298.6	310.4	355.3	396.3	404.8
135°	271.6	281.4	315.8	356.4	365.9
137.5°	247.6	259.4	283.3	320.6	330.1
140°	233.0	240.4	257.2	287.7	298.2
142.5°	220.4	224.4	234.1	262.2	270.3
145°	209.7	210.4	217.7	238.7	245.8
147.5°	197.7	201.7	205.7	217.2	224.3
150°	188.7	194.1	195.7	199.1	207.2
152.5°	180.7	185.1	185.7	185.4	190.1
155°	172.7	178.1	177.7	177.4	179.7
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°	1292.6	1379.4	1477.2	1395.8	1267.6
110°	1186.6	1266.9	1370.1	1385.6	1327.4



(END OF REPORT)