

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: P830193

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830193
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-1)
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
Description: 30000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND MEDIUM FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

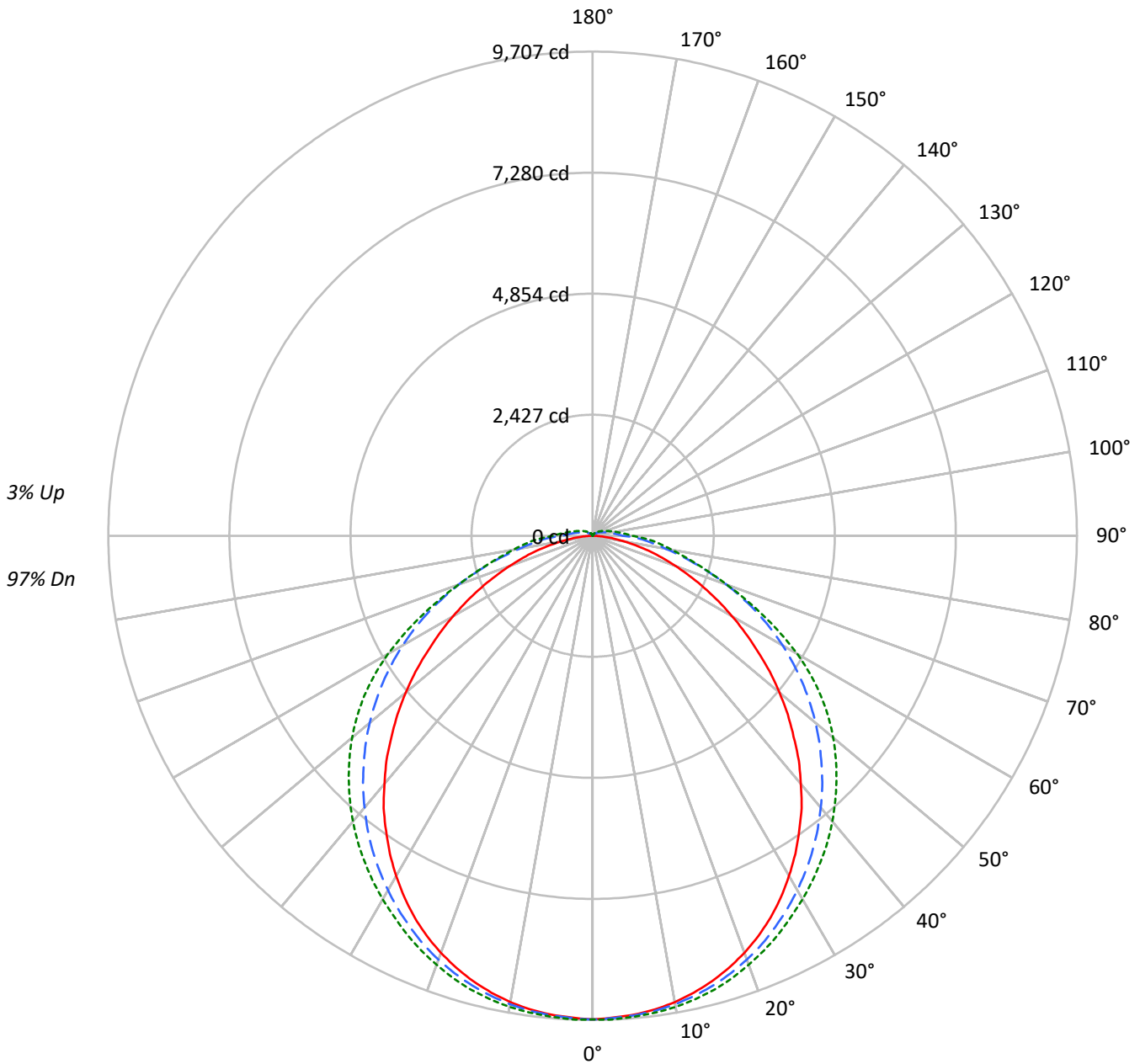
Lumens per Lamp: N/A
Luminaire Lumens: 29022.0 lumens
Efficiency: N/A
Efficacy: 177.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 163.8
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	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	97																	
1	107	102	98	94	104	100	96	92	95	91	88	90	88	85	86	84	82	82	82	80																	
2	98	89	82	76	95	87	80	75	83	77	73	79	74	71	75	72	68	68	68	66																	
3	89	78	70	63	86	76	69	62	73	66	61	70	64	59	67	62	58	58	58	56																	
4	81	69	60	53	79	68	59	53	65	57	52	62	56	51	59	54	50	50	50	47																	
5	75	62	53	46	72	60	52	46	58	50	45	56	49	44	53	48	43	43	43	41																	
6	69	56	47	40	67	54	46	40	52	45	39	50	44	39	48	43	38	38	38	36																	
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	44	38	34	34	34	32																	
8	60	46	37	31	58	45	37	31	43	36	31	42	35	31	41	35	30	30	30	28																	
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	37	32	27	27	27	25																	
10	52	39	31	26	51	38	31	26	37	30	25	36	29	25	35	29	25	25	25	23																	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15336	15336	15336
5°	15238	15191	15237
10°	15131	15057	15157
15°	14962	14897	15053
20°	14738	14701	14899
25°	14438	14456	14744
30°	14023	14190	14588
35°	13521	13909	14453
40°	12917	13582	14321
45°	12206	13228	14151
50°	11428	12870	13946
55°	10471	12431	13599
60°	9492	11915	12905
65°	8422	11255	11766
70°	7263	10414	10532
75°	6089	9442	9699
80°	4617	8740	9622
85°	2921	9084	10753



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	918.9	3.2
10°-20°	2636.1	9.1
20°-30°	3986.6	13.7
30°-40°	4786.0	16.5
40°-50°	4943.1	17.0
50°-60°	4447.3	15.3
60°-70°	3350.1	11.5
70°-80°	2022.9	7.0
80°-90°	989.3	3.4
90°-100°	416.4	1.4
100°-110°	237.7	0.8
110°-120°	139.6	0.5
120°-130°	78.9	0.3
130°-140°	41.6	0.1
140°-150°	20.2	0.1
150°-160°	7.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	7541.5	26.0
0°-40°	12327.5	42.5
0°-60°	21717.9	74.8
0°-90°	28080.1	96.8
90°-120°	793.7	2.7
90°-150°	934.4	3.2
90°-180°	942.0	3.2
0°-180°	29022.0	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°	0	249	603	759	790	15
95°	12	168	451	574	596	10
105°	17	97	261	342	356	17
115°	19	55	161	216	226	19
125°	19	26	97	140	147	17
135°	17	21	50	85	95	13
145°	24	21	24	43	50	14
155°	24	26	24	21	24	7
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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CATALOG NUMBER: OHBL-30HE-MFL-UNV-L840-CD

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°	0.0	249.2	602.8	759.4	790.3
92.5°	7.1	206.5	517.4	659.8	685.9
95°	11.9	168.5	450.9	574.3	595.7
97.5°	14.2	142.4	391.6	500.8	522.1
100°	14.2	123.4	339.4	439.1	458.0
102.5°	14.2	109.2	296.7	384.5	401.1
105°	16.6	97.3	261.1	341.8	356.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	19.0	64.1	180.4	242.1	251.6
115°	19.0	54.6	161.4	216.0	225.5
117.5°	21.4	47.5	142.4	194.6	201.7
120°	21.4	40.3	125.8	173.2	182.7
122.5°	21.4	33.2	111.5	156.6	163.8
125°	19.0	26.1	97.3	140.0	147.1
127.5°	16.6	21.4	83.1	125.8	132.9
130°	16.6	19.0	71.2	111.5	118.7
132.5°	16.6	21.4	59.3	97.3	106.8
135°	16.6	21.4	49.8	85.4	94.9
137.5°	16.6	21.4	40.3	73.6	83.1
140°	19.0	21.4	33.2	61.7	71.2
142.5°	21.4	21.4	26.1	52.2	59.3
145°	23.7	21.4	23.7	42.7	49.8
147.5°	23.7	23.7	23.7	33.2	40.3
150°	23.7	26.1	23.7	26.1	33.2
152.5°	23.7	26.1	23.7	21.4	26.1
155°	23.7	26.1	23.7	21.4	23.7
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	16.6	85.4	230.2	303.8	315.6
110°	16.6	75.9	204.1	270.6	282.4



(END OF REPORT)