

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: P830191

Luminaire Tested: **OHBL-30HE-MFL-UNV-L830-CD**

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P830191
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-L830-CD
Description: 30000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 3000K LEDS AND MEDIUM FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

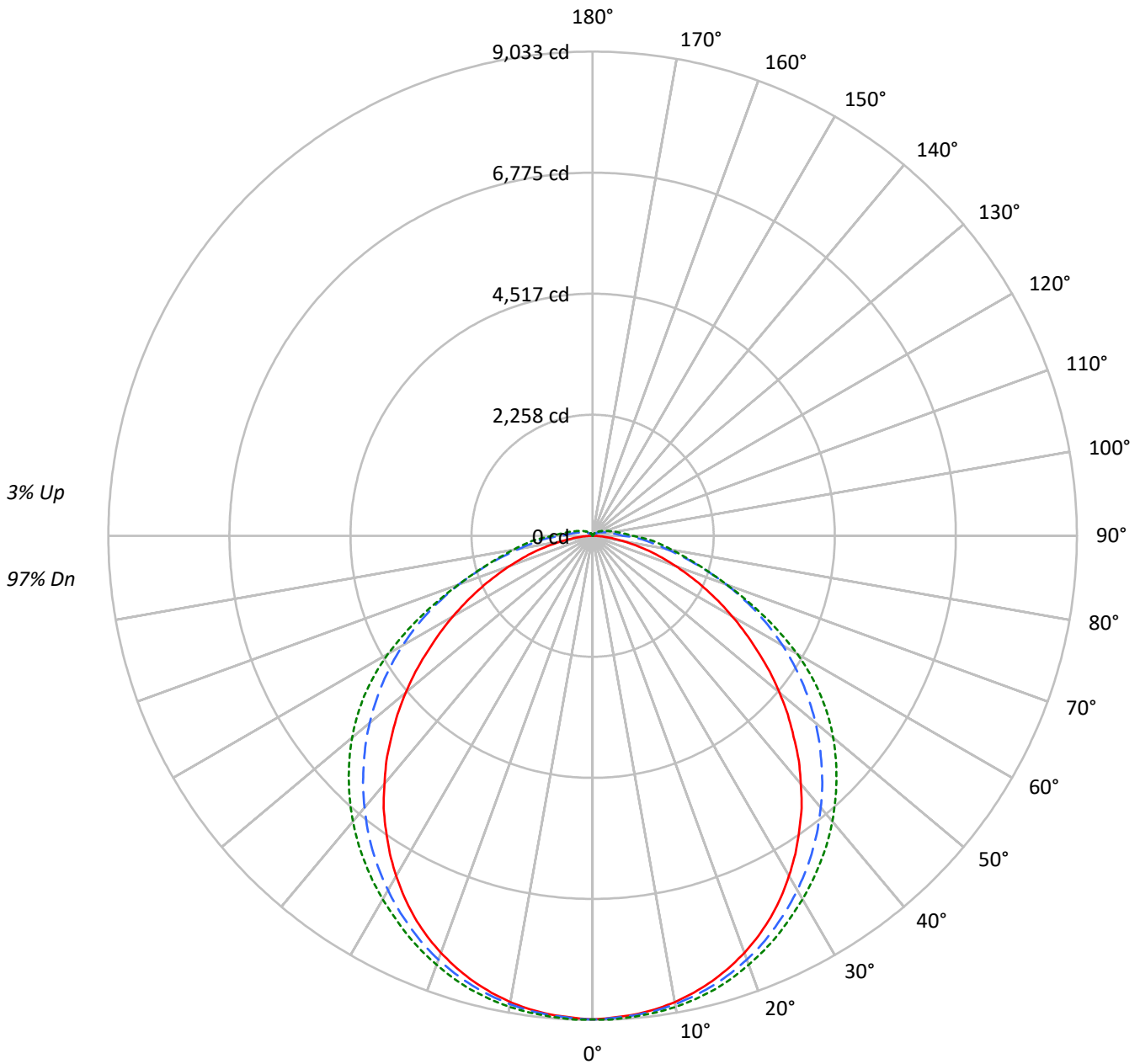
Lumens per Lamp: N/A
Luminaire Lumens: 27007.0 lumens
Efficiency: N/A
Efficacy: 164.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

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°	14271	14271	14271
5°	14180	14136	14179
10°	14080	14011	14105
15°	13923	13862	14007
20°	13714	13680	13865
25°	13435	13452	13720
30°	13049	13205	13575
35°	12582	12943	13450
40°	12021	12639	13326
45°	11359	12310	13169
50°	10635	11976	12978
55°	9744	11568	12654
60°	8833	11087	12009
65°	7837	10474	10949
70°	6759	9691	9801
75°	5667	8786	9025
80°	4296	8133	8954
85°	2718	8454	10006



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	855.1	3.2
10°-20°	2453.0	9.1
20°-30°	3709.8	13.7
30°-40°	4453.7	16.5
40°-50°	4599.9	17.0
50°-60°	4138.5	15.3
60°-70°	3117.5	11.5
70°-80°	1882.4	7.0
80°-90°	920.7	3.4
90°-100°	387.5	1.4
100°-110°	221.2	0.8
110°-120°	129.9	0.5
120°-130°	73.5	0.3
130°-140°	38.7	0.1
140°-150°	18.8	0.1
150°-160°	7.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	7017.9	26.0
0°-40°	11471.6	42.5
0°-60°	20210.0	74.8
0°-90°	26130.5	96.8
90°-120°	738.6	2.7
90°-150°	869.5	3.2
90°-180°	877.0	3.2
0°-180°	27007.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9024	9024	9024	9024	9024	
5°	8966	8991	8980	9015	9004	852
15°	8604	8646	8686	8759	8768	2426
25°	7858	7944	8057	8182	8202	3614
35°	6718	6875	7158	7374	7418	4200
45°	5303	5570	6036	6365	6433	4094
55°	3757	4145	4775	5135	5197	3368
65°	2292	2761	3379	3547	3507	2278
75°	1080	1550	1957	2008	1988	1152
85°	225	594	981	1115	1135	260
90°	0	232	561	707	735	14
95°	11	157	420	534	554	9
105°	16	90	243	318	331	16
115°	18	51	150	201	210	18
125°	18	24	90	130	137	16
135°	16	20	46	80	88	12
145°	22	20	22	40	46	13
155°	22	24	22	20	22	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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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9023.9	9023.9	9023.9	9023.9	9023.9
2.5°	8997.4	9019.5	9006.2	9034.9	9032.7
5°	8966.5	8990.8	8979.7	9015.1	9004.0
7.5°	8913.5	8940.0	8937.8	8977.5	8973.1
10°	8836.2	8864.9	8873.7	8926.7	8926.7
12.5°	8730.2	8767.7	8789.8	8853.8	8856.1
15°	8604.3	8646.2	8686.0	8758.9	8767.7
17.5°	8451.9	8504.9	8560.1	8644.0	8655.1
20°	8279.6	8339.3	8414.4	8502.7	8515.9
22.5°	8080.9	8151.5	8248.7	8352.5	8368.0
25°	7857.8	7943.9	8056.6	8182.5	8202.3
27.5°	7603.8	7703.2	7855.6	7996.9	8014.6
30°	7327.8	7444.8	7634.8	7802.6	7831.3
32.5°	7036.3	7171.0	7405.1	7592.8	7632.5
35°	6718.2	6875.0	7157.7	7374.2	7418.3
37.5°	6404.6	6576.9	6897.1	7144.5	7197.5
40°	6038.0	6252.2	6618.9	6892.7	6956.7
42.5°	5693.5	5925.4	6340.6	6638.7	6700.6
45°	5302.6	5569.8	6035.8	6364.9	6433.3
47.5°	4936.0	5225.3	5742.1	6082.2	6152.9
50°	4549.5	4867.5	5428.5	5784.0	5856.9
52.5°	4163.0	4505.3	5103.8	5472.6	5541.1
55°	3756.6	4145.3	4774.8	5134.7	5196.6
57.5°	3379.0	3789.8	4436.9	4779.2	4816.7
60°	3005.8	3432.0	4092.3	4392.7	4405.9
62.5°	2641.4	3089.7	3739.0	3977.5	3959.8
65°	2292.4	2760.6	3379.0	3546.8	3507.1
67.5°	1956.7	2440.4	3010.2	3118.4	3065.4
70°	1638.7	2129.0	2652.4	2707.6	2659.0
72.5°	1358.2	1833.0	2290.2	2336.6	2301.2
75°	1080.0	1550.4	1956.7	2007.5	1987.6
77.5°	819.4	1276.5	1649.7	1716.0	1720.4
80°	589.7	1026.9	1382.5	1486.3	1499.6
82.5°	388.7	797.3	1159.5	1292.0	1311.8
85°	225.3	594.1	980.6	1115.3	1135.2
87.5°	97.2	428.4	788.4	909.9	934.2
90°	0.0	231.9	561.0	706.7	735.4
92.5°	6.6	192.1	481.5	614.0	638.3
95°	11.0	156.8	419.6	534.5	554.3
97.5°	13.3	132.5	364.4	466.0	485.9
100°	13.3	114.8	315.8	408.6	426.2
102.5°	13.3	101.6	276.1	357.8	373.2
105°	15.5	90.5	242.9	318.0	331.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	17.7	59.6	167.8	225.3	234.1
115°	17.7	50.8	150.2	201.0	209.8
117.5°	19.9	44.2	132.5	181.1	187.7
120°	19.9	37.5	117.1	161.2	170.1
122.5°	19.9	30.9	103.8	145.8	152.4
125°	17.7	24.3	90.5	130.3	136.9
127.5°	15.5	19.9	77.3	117.1	123.7
130°	15.5	17.7	66.3	103.8	110.4
132.5°	15.5	19.9	55.2	90.5	99.4
135°	15.5	19.9	46.4	79.5	88.3
137.5°	15.5	19.9	37.5	68.5	77.3
140°	17.7	19.9	30.9	57.4	66.3
142.5°	19.9	19.9	24.3	48.6	55.2
145°	22.1	19.9	22.1	39.8	46.4
147.5°	22.1	22.1	22.1	30.9	37.5
150°	22.1	24.3	22.1	24.3	30.9
152.5°	22.1	24.3	22.1	19.9	24.3
155°	22.1	24.3	22.1	19.9	22.1
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°	15.5	79.5	214.2	282.7	293.7
110°	15.5	70.7	189.9	251.8	262.8



(END OF REPORT)