

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: P827174

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P827174
REPORT IS A COMBINATION OF REPORTS P826280 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-W-UNV-L840-CD-UPL30
Description: 30000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND WIDE LENS AND 3000 LUMEN UPLIGHT MODULE
Light Source: -
Ballast/Driver: -

Summary

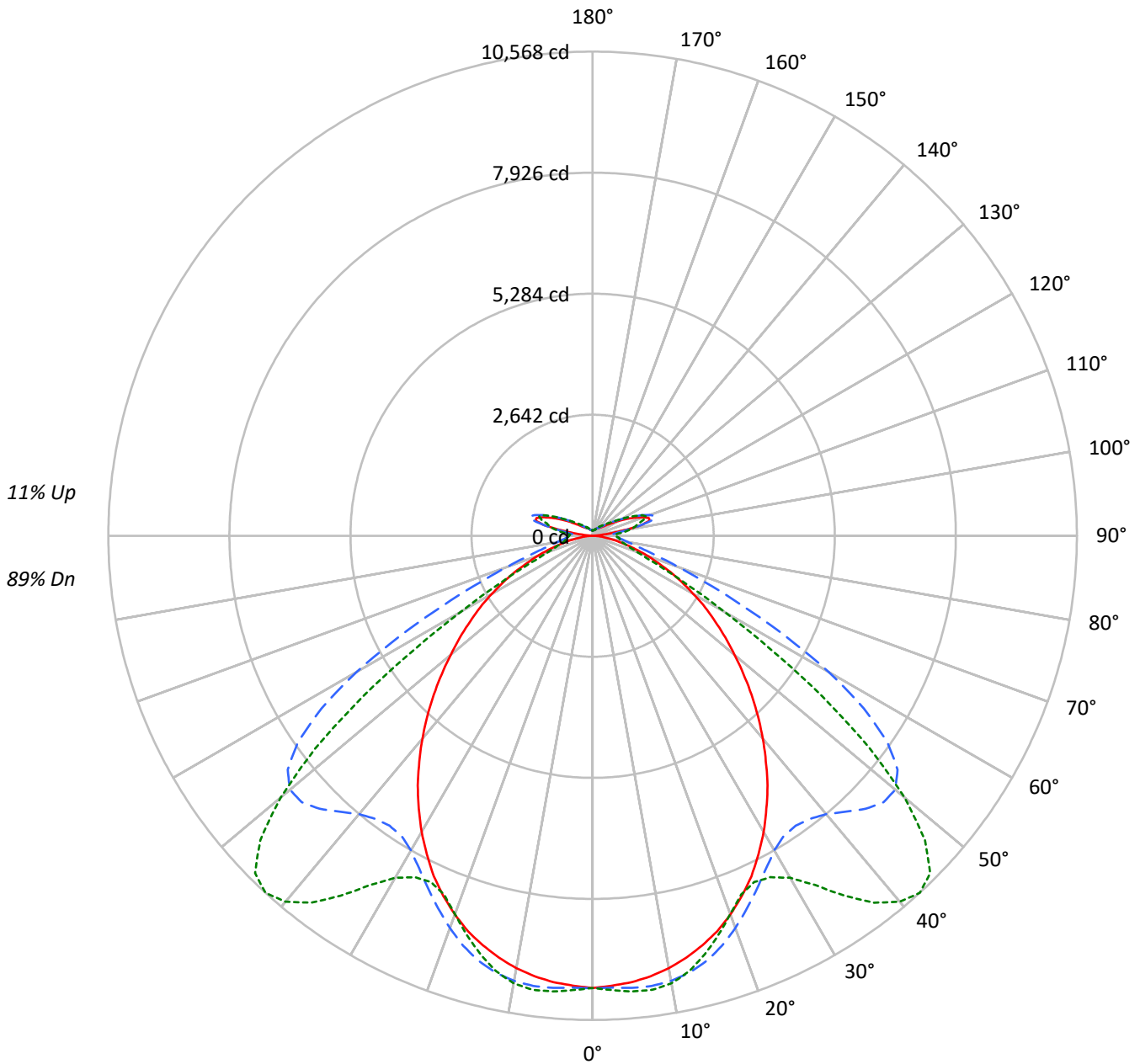
Lumens per Lamp: N/A
Luminaire Lumens: 32618.9 lumens
Efficiency: N/A
Efficacy: 174.4 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')
CIE Type: Semi-Direct

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					
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	116	116	116	116	112	112	112	112	105	105	105	98	98	98	92	92	92	89								
1	107	102	98	94	103	99	95	92	92	89	87	87	84	82	81	79	78	75								
2	97	89	83	77	94	87	81	76	81	76	72	76	72	69	72	69	66	63								
3	89	79	71	64	85	76	69	63	72	66	61	67	62	58	63	59	56	53								
4	81	70	61	55	78	67	60	54	64	57	52	60	54	50	57	52	48	45								
5	74	62	53	47	72	60	52	46	57	50	44	54	48	43	51	46	41	39								
6	69	56	47	41	66	54	46	40	51	44	39	48	42	37	46	40	36	34								
7	63	50	42	36	61	49	41	35	46	39	34	44	38	33	42	36	32	30								
8	59	46	37	31	57	44	37	31	42	35	30	40	34	29	38	33	28	26								
9	55	42	34	28	53	41	33	28	39	32	27	37	31	26	35	30	26	24								
10	51	38	30	25	49	37	30	25	36	29	24	34	28	24	32	27	23	21								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15611	15611	15611
5°	15400	15596	15789
10°	15143	15579	15808
15°	14784	15329	15301
20°	14317	14809	14551
25°	13715	14178	14260
30°	12939	13710	15345
35°	12066	13972	17956
40°	11068	15141	20758
45°	10031	17187	22313
50°	8957	19020	20764
55°	7945	19014	15866
60°	6920	16104	9700
65°	5844	11136	5876
70°	4647	7213	4242
75°	3423	5183	3934
80°	2327	4573	4438
85°	1408	5067	7015



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	943.3	2.9
10°-20°	2671.1	8.2
20°-30°	3908.8	12.0
30°-40°	5076.4	15.6
40°-50°	6198.9	19.0
50°-60°	5459.1	16.7
60°-70°	2844.7	8.7
70°-80°	1219.9	3.7
80°-90°	592.4	1.8
90°-100°	511.9	1.6
100°-110°	1241.3	3.8
110°-120°	982.3	3.0
120°-130°	470.8	1.4
130°-140°	237.2	0.7
140°-150°	135.8	0.4
150°-160°	76.5	0.2
160°-170°	37.3	0.1
170°-180°	11.4	0.0
0°-30°	7523.2	23.1
0°-40°	12599.6	38.6
0°-60°	24257.5	74.4
0°-90°	28914.5	88.6
90°-120°	2735.5	8.4
90°-150°	3579.3	11.0
90°-180°	3704.0	11.4
0°-180°	32618.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9871	9871	9871	9871	9871	
5°	9780	9854	9907	9995	9984	927
15°	9254	9513	9605	9532	9456	2606
25°	8199	8638	8491	8331	8340	3763
35°	6655	7358	7727	9011	9588	4148
45°	4900	6166	8427	10203	10416	3779
55°	3263	5401	7848	6881	6116	2928
65°	1872	3742	3593	1998	1719	1852
75°	754	1751	1154	790	750	822
85°	160	624	588	575	581	178
90°	9	267	442	504	515	16
95°	61	247	449	539	563	209
105°	1286	1362	1388	1133	1030	1215
115°	895	925	1004	1036	1022	897
125°	449	468	531	541	537	418
135°	268	273	300	328	331	211
145°	203	202	209	224	228	128
155°	166	169	167	169	169	75
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°	9871.2	9871.2	9871.2	9871.2	9871.2
2.5°	9828.6	9871.2	9873.3	9932.9	9926.5
5°	9779.6	9854.1	9907.4	9994.7	9984.0
7.5°	9698.7	9815.8	9909.5	10005.3	9996.8
10°	9583.7	9743.4	9866.9	9945.7	9920.1
12.5°	9434.6	9645.4	9766.8	9783.8	9734.9
15°	9253.6	9513.4	9605.0	9532.5	9455.9
17.5°	9049.1	9353.6	9385.6	9228.0	9132.2
20°	8793.5	9140.7	9108.7	8891.5	8785.0
22.5°	8510.3	8906.4	8804.2	8576.3	8474.1
25°	8199.3	8638.1	8491.1	8331.4	8339.9
27.5°	7835.2	8333.5	8190.8	8263.2	8399.5
30°	7464.6	8014.1	7926.7	8348.4	8616.8
32.5°	7057.8	7686.1	7764.9	8597.6	9036.3
35°	6655.3	7358.1	7726.6	9010.8	9587.9
37.5°	6210.2	7025.9	7788.3	9487.8	10092.7
40°	5777.9	6702.2	7928.9	9915.9	10427.0
42.5°	5337.0	6412.5	8165.3	10169.3	10567.6
45°	4900.4	6165.5	8427.2	10203.4	10416.4
47.5°	4463.9	5956.8	8608.3	9932.9	9835.0
50°	4042.2	5771.5	8621.0	9283.4	8883.0
52.5°	3648.2	5601.1	8386.8	8248.3	7626.5
55°	3262.7	5400.9	7847.9	6881.1	6116.5
57.5°	2911.3	5124.1	7017.4	5411.6	4576.7
60°	2538.6	4749.2	5944.0	3959.1	3301.0
62.5°	2195.7	4282.8	4740.7	2755.8	2372.5
65°	1872.0	3741.9	3592.8	1997.7	1718.7
67.5°	1529.1	3181.8	2651.5	1456.7	1277.8
70°	1260.8	2662.1	1974.2	1133.0	1028.6
72.5°	986.1	2168.0	1475.9	920.0	862.5
75°	753.9	1750.6	1154.3	790.1	749.7
77.5°	555.9	1384.3	928.5	698.5	660.2
80°	389.7	1090.4	777.3	624.0	609.1
82.5°	262.0	843.4	662.3	594.2	596.3
85°	159.7	624.0	587.8	575.0	581.4
87.5°	76.7	443.0	504.7	523.9	530.3
90°	9.1	266.7	441.6	504.0	514.6
92.5°	21.0	223.5	406.8	477.1	489.8
95°	61.3	247.0	448.8	539.0	562.7
97.5°	352.3	454.6	576.9	681.2	726.6
100°	693.4	819.7	788.0	850.3	861.7
102.5°	1090.4	1187.1	1083.5	982.3	956.6
105°	1285.5	1361.5	1388.2	1132.7	1029.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1036.8	1083.1	1173.6	1190.4	1170.6
115°	894.8	924.6	1004.5	1036.2	1022.5
117.5°	758.9	787.3	859.6	877.2	871.3
120°	640.9	666.9	726.7	746.3	740.4
122.5°	537.9	563.6	626.1	638.5	631.6
125°	448.9	468.3	531.4	540.7	536.8
127.5°	380.8	391.9	447.8	468.1	465.2
130°	329.8	337.8	386.1	409.4	412.7
132.5°	294.8	301.8	338.6	362.9	366.2
135°	267.8	272.8	300.1	328.5	330.6
137.5°	243.8	250.8	270.7	296.0	300.2
140°	226.8	231.8	245.3	268.6	271.7
142.5°	213.9	215.8	227.2	246.2	249.3
145°	203.0	201.8	208.9	223.7	227.9
147.5°	191.0	192.9	196.9	207.4	209.6
150°	182.0	185.0	184.8	190.0	195.3
152.5°	174.0	176.0	174.8	176.8	181.0
155°	166.0	169.0	166.8	168.8	168.8
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°	1286.6	1360.0	1425.9	1307.1	1171.4
110°	1180.6	1248.5	1323.6	1306.7	1240.9



(END OF REPORT)