

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: P827180

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

Issue Date: 5/3/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P827180  
REPORT IS A COMBINATION OF REPORTS P826283 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-30SE-MFL-UNV-L840-CD-UPL30  
Description: 30000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND MEDIUM FROSTED LENS AND 3000 LUMEN UPLIGHT MODULE  
Light Source: -  
Ballast/Driver: -

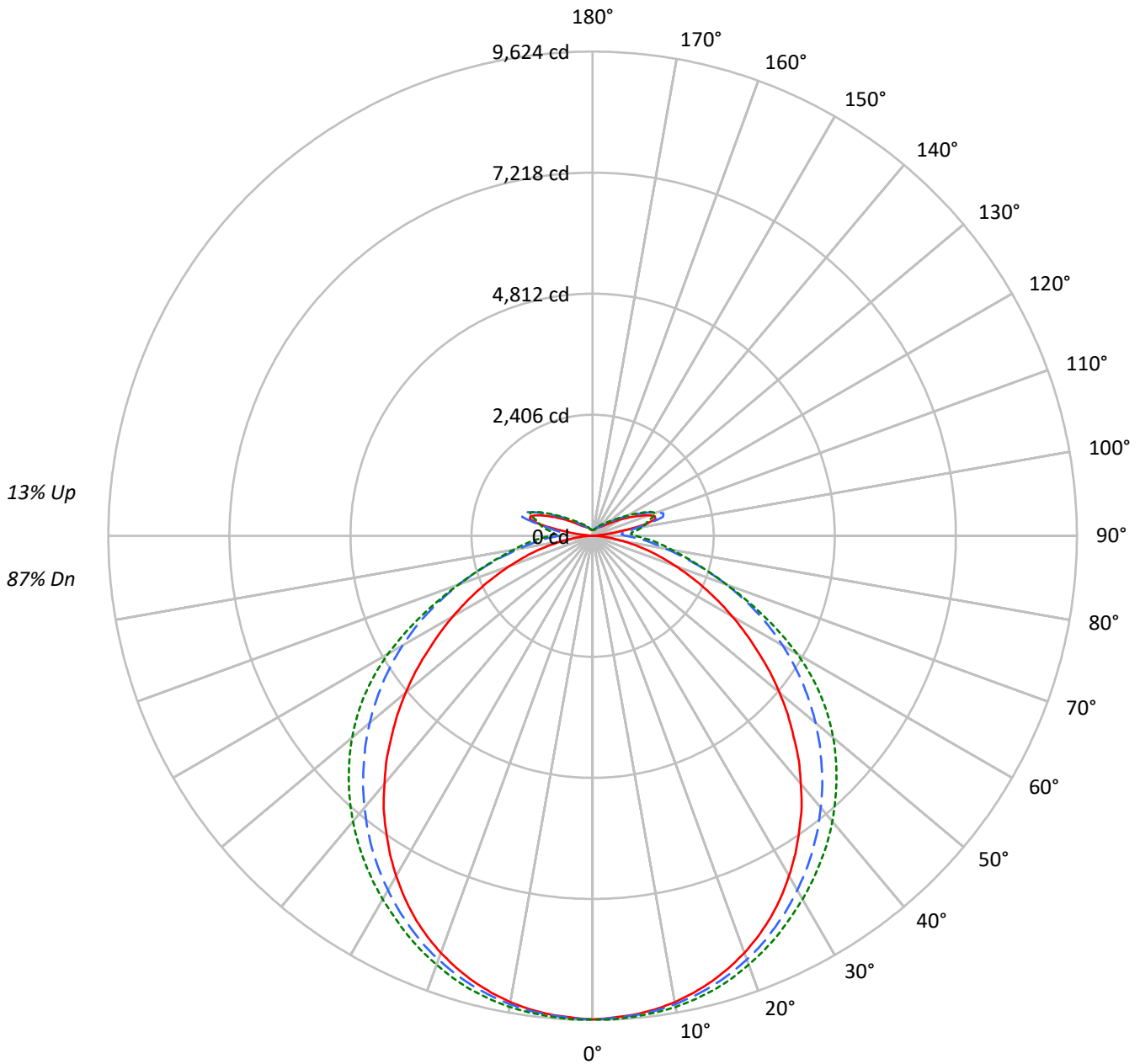
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 31837.0 lumens  
Efficiency: N/A  
Efficacy: 161.4 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')  
CIE Type: Semi-Direct  
  
Input Watts (W): 197.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	104	104	104	97	97	97	91	91	91	87			87
1	105	100	96	92	101	97	93	89	90	87	84	84	82	79	79	77	75	72			72
2	96	87	80	75	92	84	78	73	79	74	69	74	70	66	69	66	63	60			60
3	87	77	68	62	84	74	67	61	69	63	58	65	60	55	61	57	53	50			50
4	80	68	59	52	76	66	58	51	62	55	49	58	52	47	54	49	45	43			43
5	73	61	52	45	70	59	50	44	55	48	43	52	46	41	49	44	39	37			37
6	68	54	46	39	65	53	45	39	50	43	37	47	41	36	44	39	35	32			32
7	63	49	41	35	60	48	40	34	45	38	33	43	36	32	40	35	31	29			29
8	58	45	36	31	56	44	36	30	41	34	29	39	33	28	37	32	28	25			25
9	54	41	33	28	52	40	32	27	38	31	26	36	30	26	34	29	25	23			23
10	51	38	30	25	49	37	30	25	35	28	24	33	27	23	32	26	23	21			21

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	16421	16421	16421
5°	16237	16258	16384
10°	16045	16108	16368
15°	15787	15929	16325
20°	15471	15712	16231
25°	15074	15443	16137
30°	14557	15151	16047
35°	13948	14842	15986
40°	13233	14485	15936
45°	12405	14097	15857
50°	11508	13704	15753
55°	10429	13224	15510
60°	9324	12660	14898
65°	8128	11940	13797
70°	6839	11025	12619
75°	5529	9967	12001
80°	3943	9182	12572
85°	2194	9458	15759



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	911.0	2.9
10°-20°	2613.6	8.2
20°-30°	3952.5	12.4
30°-40°	4745.1	14.9
40°-50°	4900.9	15.4
50°-60°	4409.3	13.8
60°-70°	3321.4	10.4
70°-80°	2005.6	6.3
80°-90°	987.4	3.1
90°-100°	649.6	2.0
100°-110°	1305.9	4.1
110°-120°	1019.4	3.2
120°-130°	494.0	1.6
130°-140°	250.8	0.8
140°-150°	142.6	0.4
150°-160°	79.3	0.2
160°-170°	37.3	0.1
170°-180°	11.4	0.0
0°-30°	7477.1	23.5
0°-40°	12222.1	38.4
0°-60°	21532.3	67.6
0°-90°	27846.7	87.5
90°-120°	2974.9	9.3
90°-150°	3862.4	12.1
90°-180°	3990.0	12.5
0°-180°	31837.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	9614	9614	9614	9614	9614	
5°	9553	9579	9567	9605	9593	908
15°	9167	9212	9254	9332	9341	2585
25°	8372	8464	8584	8718	8739	3851
35°	7158	7325	7626	7857	7904	4475
45°	5650	5934	6431	6781	6854	4362
55°	4002	4417	5087	5471	5537	3589
65°	2442	2941	3600	3779	3736	2427
75°	1151	1652	2085	2139	2118	1227
85°	240	633	1045	1188	1209	277
90°	7	288	652	814	844	20
95°	69	282	587	746	781	216
105°	1294	1384	1447	1231	1138	1222
115°	901	936	1041	1099	1090	903
125°	453	473	556	586	587	423
135°	272	281	315	356	365	214
145°	210	210	218	238	245	132
155°	172	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°	9614.3	9614.3	9614.3	9614.3	9614.3
2.5°	9586.1	9609.6	9595.5	9626.1	9623.7
5°	9553.1	9579.0	9567.2	9604.9	9593.1
7.5°	9496.7	9524.9	9522.5	9564.9	9560.2
10°	9414.3	9444.9	9454.3	9510.8	9510.8
12.5°	9301.4	9341.4	9364.9	9433.1	9435.5
15°	9167.2	9211.9	9254.3	9332.0	9341.4
17.5°	9004.9	9061.4	9120.2	9209.6	9221.4
20°	8821.4	8884.9	8964.9	9059.0	9073.1
22.5°	8609.6	8684.9	8788.4	8899.0	8915.5
25°	8371.9	8463.7	8583.7	8717.8	8739.0
27.5°	8101.3	8207.2	8369.6	8520.2	8539.0
30°	7807.2	7931.9	8134.3	8313.1	8343.7
32.5°	7496.6	7640.2	7889.6	8089.6	8131.9
35°	7157.8	7324.9	7626.0	7856.6	7903.7
37.5°	6823.7	7007.2	7348.4	7611.9	7668.4
40°	6433.1	6661.3	7051.9	7343.7	7411.9
42.5°	6066.0	6313.1	6755.4	7073.1	7139.0
45°	5649.5	5934.2	6430.7	6781.3	6854.3
47.5°	5258.9	5567.2	6117.8	6480.1	6555.4
50°	4847.2	5186.0	5783.6	6162.5	6240.1
52.5°	4435.4	4800.1	5437.8	5830.7	5903.6
55°	4002.4	4416.6	5087.2	5470.7	5536.6
57.5°	3600.1	4037.7	4727.2	5091.9	5131.9
60°	3202.4	3656.5	4360.1	4680.1	4694.2
62.5°	2814.2	3291.8	3983.6	4237.7	4218.9
65°	2442.4	2941.2	3600.1	3778.9	3736.5
67.5°	2084.7	2600.1	3207.1	3322.4	3265.9
70°	1745.9	2268.3	2825.9	2884.8	2833.0
72.5°	1447.1	1953.0	2440.0	2489.5	2451.8
75°	1150.6	1651.8	2084.7	2138.9	2117.7
77.5°	873.0	1360.0	1757.7	1828.3	1833.0
80°	628.2	1094.1	1473.0	1583.6	1597.7
82.5°	414.1	849.4	1235.3	1376.5	1397.7
85°	240.0	633.0	1044.7	1188.3	1209.4
87.5°	103.5	456.5	840.0	969.4	995.3
90°	7.0	288.1	651.7	814.0	844.5
92.5°	28.1	255.7	579.0	735.1	763.0
95°	68.8	282.1	587.1	746.4	780.6
97.5°	362.1	487.2	688.2	845.5	905.7
100°	701.1	848.4	877.5	985.3	1009.1
102.5°	1098.1	1212.2	1156.1	1095.2	1081.7
105°	1293.5	1383.5	1446.8	1230.8	1137.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1042.8	1095.5	1211.8	1260.0	1245.4
115°	900.8	936.1	1041.0	1099.1	1090.5
117.5°	765.2	796.1	892.2	935.9	935.0
120°	647.2	675.0	757.7	798.8	800.2
122.5°	544.2	570.9	653.6	687.3	685.4
125°	452.8	472.9	555.5	585.8	586.9
127.5°	384.5	398.2	468.4	509.7	511.8
130°	333.5	343.8	405.6	447.6	453.6
132.5°	298.5	310.2	354.8	395.5	403.9
135°	271.5	281.2	315.4	355.7	365.1
137.5°	247.5	259.2	283.0	319.9	329.4
140°	232.8	240.2	256.9	287.2	297.6
142.5°	220.2	224.2	233.9	261.8	269.8
145°	209.5	210.2	217.5	238.4	245.4
147.5°	197.5	201.5	205.5	216.9	224.0
150°	188.5	193.9	195.5	198.9	206.9
152.5°	180.5	184.9	185.5	185.2	189.9
155°	172.5	177.9	177.5	177.2	179.5
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°	1292.5	1378.7	1475.2	1393.2	1264.9
110°	1186.5	1266.3	1368.4	1383.2	1325.0



(END OF REPORT)