

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: P830277

Luminaire Tested: **OHBL-30SE-N-UNV-L840-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P830277  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-30SE-N-UNV-L840-CD  
Description: 30000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND NARROW LENS  
Light Source: -  
Ballast/Driver: -

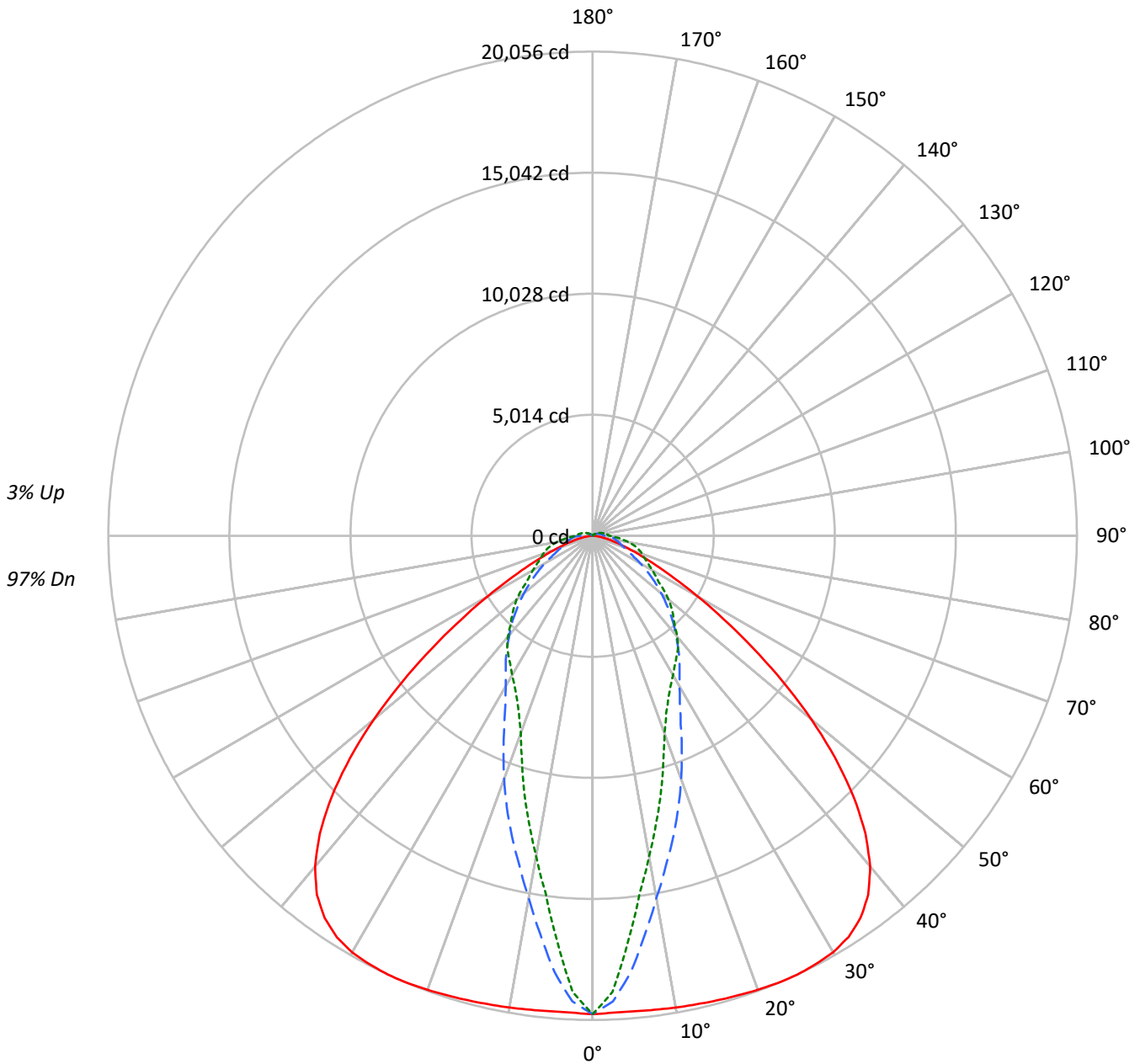
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29242.0 lumens  
Efficiency: N/A  
Efficacy: 168.1 lumens/watt  
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78  
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 174  
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

TEST NUMBER: P830277

CATALOG NUMBER: OHBL-30SE-N-UNV-L840-CD

### Luminous Intensity Polar Plot





TEST NUMBER: P830277

CATALOG NUMBER: OHBL-30SE-N-UNV-L840-CD

**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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	99	97
1	109	104	100	97	106	102	98	95	97	94	91	92	90	88	88	86	85	85	85	85	82
2	100	93	86	81	97	90	85	80	86	82	78	83	79	75	79	76	73	73	73	73	71
3	92	83	75	69	90	81	74	69	78	72	67	74	70	65	72	67	64	64	64	64	62
4	85	74	66	60	83	73	66	60	70	64	59	67	62	57	65	60	56	56	56	56	54
5	79	67	59	53	77	66	59	53	64	57	52	62	56	51	59	54	50	50	50	50	48
6	74	62	53	47	72	60	53	47	58	52	46	56	50	46	55	49	45	45	45	45	43
7	69	56	48	43	67	55	48	42	54	47	42	52	46	41	50	45	41	41	41	41	39
8	65	52	44	39	63	51	44	39	50	43	38	48	42	38	47	41	37	37	37	37	35
9	61	48	41	35	59	47	40	35	46	40	35	45	39	35	44	38	34	34	34	34	32
10	57	45	37	33	56	44	37	32	43	37	32	42	36	32	41	35	32	32	32	32	30

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

	0°	45°	90°
0°	33840	33840	33840
5°	33772	30817	28653
10°	34153	25959	22975
15°	34820	22201	18857
20°	35798	18772	15252
25°	37036	15538	13364
30°	38316	13386	12415
35°	39113	12199	11828
40°	38444	11019	11221
45°	35367	9958	10389
50°	29839	8797	9751
55°	22673	7706	8677
60°	15889	6608	8307
65°	10688	5691	8133
70°	7299	5341	8532
75°	5065	5509	9116
80°	3487	6101	9385
85°	2039	7631	9845



TEST NUMBER: P830277

CATALOG NUMBER: OHBL-30SE-N-UNV-L840-CD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1667.8	5.7
10°-20°	3923.5	13.4
20°-30°	4918.1	16.8
30°-40°	5218.6	17.8
40°-50°	4718.4	16.1
50°-60°	3421.2	11.7
60°-70°	2147.0	7.3
70°-80°	1420.8	4.9
80°-90°	818.5	2.8
90°-100°	396.6	1.4
100°-110°	273.7	0.9
110°-120°	168.9	0.6
120°-130°	81.8	0.3
130°-140°	37.6	0.1
140°-150°	20.5	0.1
150°-160°	8.9	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	10509.4	35.9
0°-40°	15728.0	53.8
0°-60°	23867.6	81.6
0°-90°	28253.9	96.6
90°-120°	839.2	2.9
90°-150°	979.1	3.3
90°-180°	988.0	3.4
0°-180°	29242.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	19813	19813	19813	19813	19813	
5°	19773	19266	18135	17294	16858	###
15°	19924	16240	12898	11471	10950	5650
25°	20056	12557	8636	7665	7422	9266
35°	19338	8348	6268	6072	6070	12021
45°	15287	5288	4543	4652	4731	11646
55°	8093	3277	2964	3215	3330	7313
65°	2894	1901	1716	2199	2444	3012
75°	894	1024	1152	1790	1897	996
85°	156	424	843	1173	1077	188
90°	0	177	488	688	694	10
95°	8	124	430	585	611	7
105°	15	83	313	415	426	15
115°	21	58	211	264	270	20
125°	23	30	108	136	134	20
135°	19	23	47	74	74	15
145°	23	24	28	43	42	14
155°	23	28	30	32	28	7
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P830277

CATALOG NUMBER: OHBL-30SE-N-UNV-L840-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	19813.0	19813.0	19813.0	19813.0	19813.0
2.5°	19771.5	19658.4	19305.8	19090.8	18909.8
5°	19773.4	19266.2	18134.7	17293.7	16858.1
7.5°	19801.7	18674.1	16635.6	15408.0	14929.1
10°	19845.1	17940.5	15236.4	13927.8	13480.8
12.5°	19877.1	17114.6	14005.1	12660.6	12170.3
15°	19924.3	16239.6	12898.2	11470.7	10950.2
17.5°	19967.6	15415.6	11804.5	10312.9	9734.0
20°	20011.0	14527.4	10710.8	9173.9	8696.8
22.5°	20052.5	13590.2	9643.5	8289.5	7963.3
25°	20056.3	12556.9	8636.5	7665.4	7422.1
27.5°	20007.2	11485.8	7820.0	7143.0	6992.2
30°	19922.4	10446.8	7186.4	6765.9	6658.4
32.5°	19711.2	9387.0	6696.1	6401.9	6339.7
35°	19337.8	8348.0	6268.1	6071.9	6070.1
37.5°	18749.5	7425.9	5804.2	5770.2	5811.7
40°	17880.2	6618.8	5364.8	5455.3	5455.3
42.5°	16720.5	5917.3	4966.9	5059.3	5034.8
45°	15287.3	5287.5	4542.6	4652.0	4731.2
47.5°	13626.0	4733.1	4108.9	4320.1	4429.5
50°	11819.5	4205.1	3712.9	3982.6	4107.0
52.5°	9926.3	3716.7	3326.4	3635.6	3735.6
55°	8093.4	3277.3	2964.3	3215.1	3330.1
57.5°	6434.0	2858.7	2609.8	2847.4	3085.0
60°	5006.5	2498.5	2276.0	2615.5	2853.1
62.5°	3824.2	2178.0	1963.0	2398.6	2636.2
65°	2894.5	1900.8	1716.0	2198.7	2443.9
67.5°	2181.8	1661.3	1523.6	2053.5	2293.0
70°	1638.7	1429.4	1369.0	1963.0	2178.0
72.5°	1210.6	1216.3	1246.4	1883.8	2047.9
75°	893.8	1023.9	1152.2	1789.5	1897.0
77.5°	639.3	848.6	1067.3	1676.4	1714.1
80°	443.1	692.1	978.7	1527.4	1495.4
82.5°	277.2	554.4	899.5	1363.4	1274.7
85°	156.5	424.3	842.9	1172.9	1076.7
87.5°	69.8	316.8	737.3	914.6	854.2
90°	0.0	177.3	488.4	688.3	693.9
92.5°	3.8	147.1	450.7	629.8	648.7
95°	7.5	124.5	429.9	584.6	611.0
97.5°	9.4	109.4	403.5	543.1	565.7
100°	11.3	98.1	371.5	499.7	518.6
102.5°	13.2	90.5	341.3	454.5	469.5
105°	15.1	83.0	313.0	414.9	426.2



TEST NUMBER: P830277

CATALOG NUMBER: OHBL-30SE-N-UNV-L840-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	18.9	64.1	235.7	297.9	307.4
115°	20.7	58.5	211.2	264.0	269.7
117.5°	22.6	50.9	184.8	231.9	233.8
120°	22.6	45.3	158.4	198.0	198.0
122.5°	22.6	37.7	132.0	164.1	162.2
125°	22.6	30.2	107.5	135.8	133.9
127.5°	20.7	24.5	86.7	113.1	111.3
130°	20.7	24.5	69.8	96.2	96.2
132.5°	18.9	22.6	56.6	83.0	83.0
135°	18.9	22.6	47.1	73.5	73.5
137.5°	18.9	24.5	39.6	64.1	64.1
140°	18.9	22.6	33.9	56.6	56.6
142.5°	20.7	22.6	30.2	49.0	49.0
145°	22.6	24.5	28.3	43.4	41.5
147.5°	22.6	26.4	28.3	37.7	35.8
150°	22.6	28.3	28.3	33.9	32.1
152.5°	22.6	28.3	28.3	32.1	30.2
155°	22.6	28.3	30.2	32.1	28.3
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°	15.1	77.3	286.6	371.5	384.7
110°	17.0	69.8	262.1	331.9	345.1



(END OF REPORT)