

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: P827181

Luminaire Tested: **OHBL-30SE-N-UNV-L840-CD-UPL15**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P827181  
REPORT IS A COMBINATION OF REPORTS P826128 AND G3-2310-221-10  
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-UPL15  
Description: 30000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND NARROW LENS AND 1500 LUMEN UPLIGHT MODULE  
Light Source: -  
Ballast/Driver: -

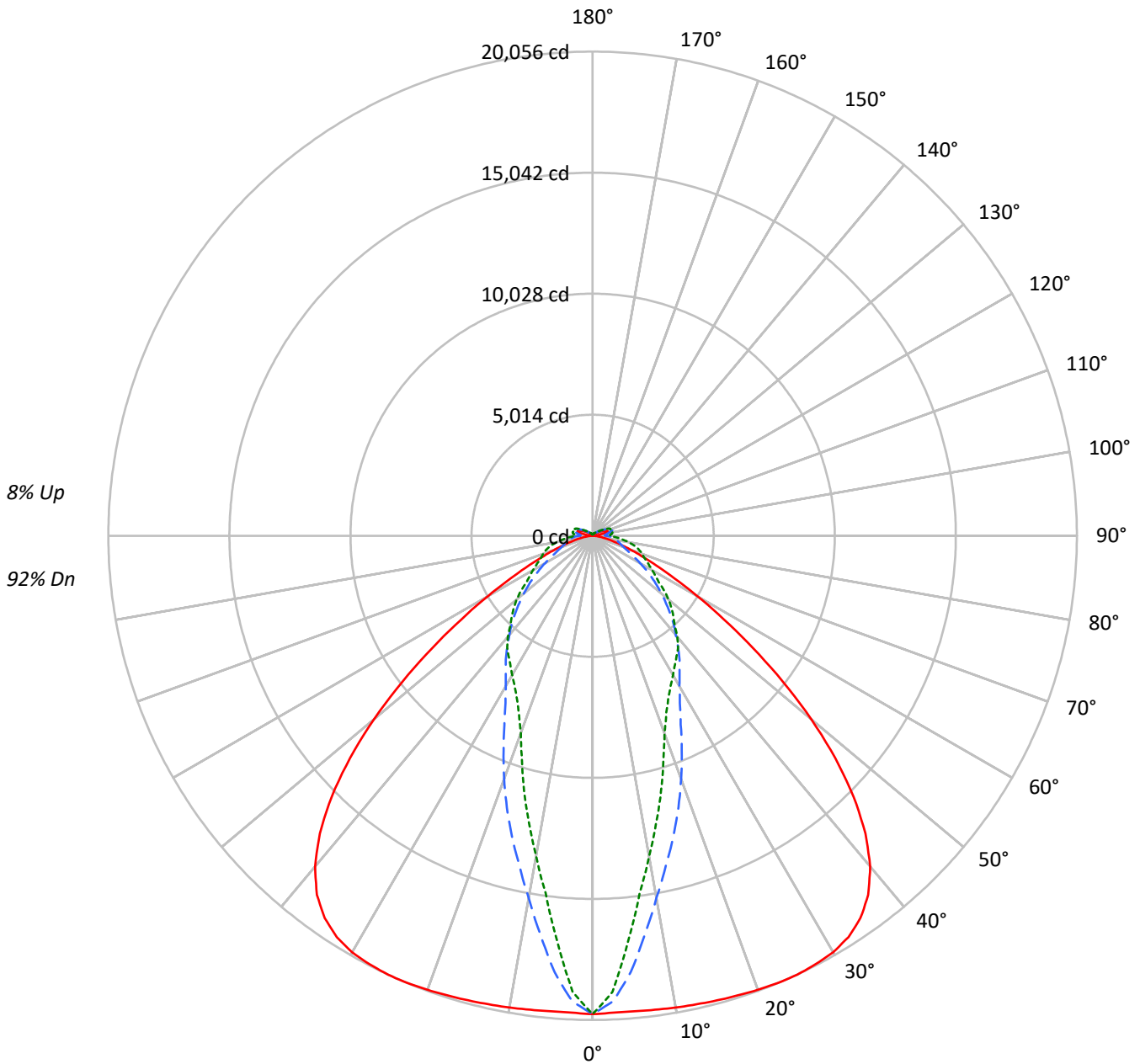
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30761.2 lumens  
Efficiency: N/A  
Efficacy: 166.9 lumens/watt  
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 184.3  
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: P827181

CATALOG NUMBER: OHBL-30SE-N-UNV-L840-CD-UPL15

### 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	117	117	117	117	113	113	113	113	107	107	107	100	100	100	95	95	95	92																			
1	108	103	99	96	104	100	97	93	94	92	89	89	87	85	84	83	81	78																			
2	99	92	85	80	96	89	83	79	84	80	76	80	76	73	76	73	70	67																			
3	91	82	74	68	88	80	73	67	76	70	65	72	67	63	68	64	61	59																			
4	84	74	66	59	82	72	64	59	68	62	57	65	60	55	62	58	54	52																			
5	78	67	58	52	76	65	57	52	62	55	50	59	54	49	57	52	48	46																			
6	73	61	52	47	70	59	52	46	57	50	45	54	49	44	52	47	43	41																			
7	68	56	48	42	66	54	47	41	52	46	41	50	44	40	48	43	39	37																			
8	64	51	43	38	62	50	43	38	48	42	37	46	41	36	45	39	36	34																			
9	60	47	40	35	58	46	39	34	45	38	34	43	37	33	42	36	33	31																			
10	56	44	37	32	55	43	36	32	42	35	31	40	35	31	39	34	30	28																			

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

	0°	45°	90°
0°	33840	33840	33840
5°	33608	30817	28792
10°	33822	25959	23200
15°	34311	22201	19137
20°	35094	18772	15558
25°	36113	15538	13706
30°	37146	13386	12806
35°	37682	12199	12278
40°	36779	11019	11729
45°	33568	9958	10945
50°	28061	8797	10368
55°	21088	7706	9329
60°	14577	6608	9055
65°	9632	5691	9024
70°	6419	5341	9701
75°	4295	5509	10750
80°	2781	6101	11767
85°	1431	7631	14030



TEST NUMBER: P827181

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1667.8	5.4
10°-20°	3923.5	12.8
20°-30°	4918.1	16.0
30°-40°	5218.6	17.0
40°-50°	4718.4	15.3
50°-60°	3421.2	11.1
60°-70°	2147.0	7.0
70°-80°	1420.8	4.6
80°-90°	822.4	2.7
90°-100°	542.2	1.8
100°-110°	778.3	2.5
110°-120°	602.5	2.0
120°-130°	289.9	0.9
130°-140°	141.6	0.5
140°-150°	80.9	0.3
150°-160°	44.2	0.1
160°-170°	18.3	0.1
170°-180°	5.6	0.0
0°-30°	10509.4	34.2
0°-40°	15728.0	51.1
0°-60°	23867.6	77.6
0°-90°	28257.8	91.9
90°-120°	1923.0	6.3
90°-150°	2435.5	7.9
90°-180°	2503.0	8.1
0°-180°	30761.2	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°	3	199	517	726	737	12
95°	36	196	537	727	776	106
105°	648	707	845	791	771	614
115°	457	494	651	702	699	461
125°	234	253	336	363	360	219
135°	144	152	179	208	208	114
145°	114	118	123	140	138	72
155°	96	102	106	108	105	41
165°	63	63	64	64	64	18
175°	57	57	57	58	58	6
180°	57	57	57	57	57	



TEST NUMBER: P827181

CATALOG NUMBER: OHBL-30SE-N-UNV-L840-CD-UPL15

**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°	3.0	199.3	517.4	726.3	736.9
92.5°	13.8	175.1	496.7	693.8	722.7
95°	35.5	196.5	536.9	726.6	776.0
97.5°	175.4	296.4	607.5	778.1	818.7
100°	348.3	462.1	670.5	813.7	839.6
102.5°	555.2	614.5	728.3	802.5	811.5
105°	648.1	707.0	845.0	790.9	771.2



TEST NUMBER: P827181

CATALOG NUMBER: OHBL-30SE-N-UNV-L840-CD-UPL15

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	527.9	580.1	742.7	786.9	778.4
115°	456.7	494.5	651.2	702.0	698.7
117.5°	396.6	422.9	560.8	605.9	605.8
120°	334.6	361.3	475.4	513.0	512.0
122.5°	280.6	303.7	403.0	432.1	429.2
125°	233.6	253.2	336.5	362.8	359.9
127.5°	200.7	211.5	281.7	308.1	304.3
130°	176.7	185.5	236.8	264.2	264.2
132.5°	157.9	165.6	204.6	232.0	233.0
135°	143.9	151.6	179.1	207.5	208.5
137.5°	133.9	141.5	160.6	186.1	187.1
140°	123.9	130.6	144.9	168.6	169.6
142.5°	118.7	122.6	132.2	153.0	153.0
145°	113.6	117.5	123.3	140.4	138.5
147.5°	108.6	114.4	118.3	127.7	126.8
150°	103.6	111.3	112.3	118.9	117.1
152.5°	99.6	106.3	108.3	112.1	111.2
155°	95.6	102.3	106.2	108.1	105.3
157.5°	70.0	71.0	72.0	73.0	73.0
160°	67.0	68.0	69.0	69.0	70.0
162.5°	65.0	66.0	66.0	67.0	67.0
165°	63.0	63.0	64.0	64.0	64.0
167.5°	61.0	61.0	62.0	62.0	63.0
170°	59.0	60.0	60.0	60.0	61.0
172.5°	58.0	58.0	59.0	59.0	59.0
175°	57.0	57.0	57.0	58.0	58.0
177.5°	56.0	57.0	57.0	57.0	57.0
180°	57.0	57.0	57.0	57.0	57.0



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	648.1	711.3	873.6	823.5	763.7
110°	601.0	658.8	825.1	843.9	795.1



(END OF REPORT)