

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: P827111

Luminaire Tested: **OHBL-18SE-A-UNV-L840-CD-UPL24**

Issue Date: 5/3/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P827111  
REPORT IS A COMBINATION OF REPORTS P826233 AND G3-2310-221-6  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-18SE-A-UNV-L840-CD-UPL24  
Description: 18000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND AISLE LENS AND 2400 LUMEN UPLIGHT MODULE  
Light Source: -  
Ballast/Driver: -

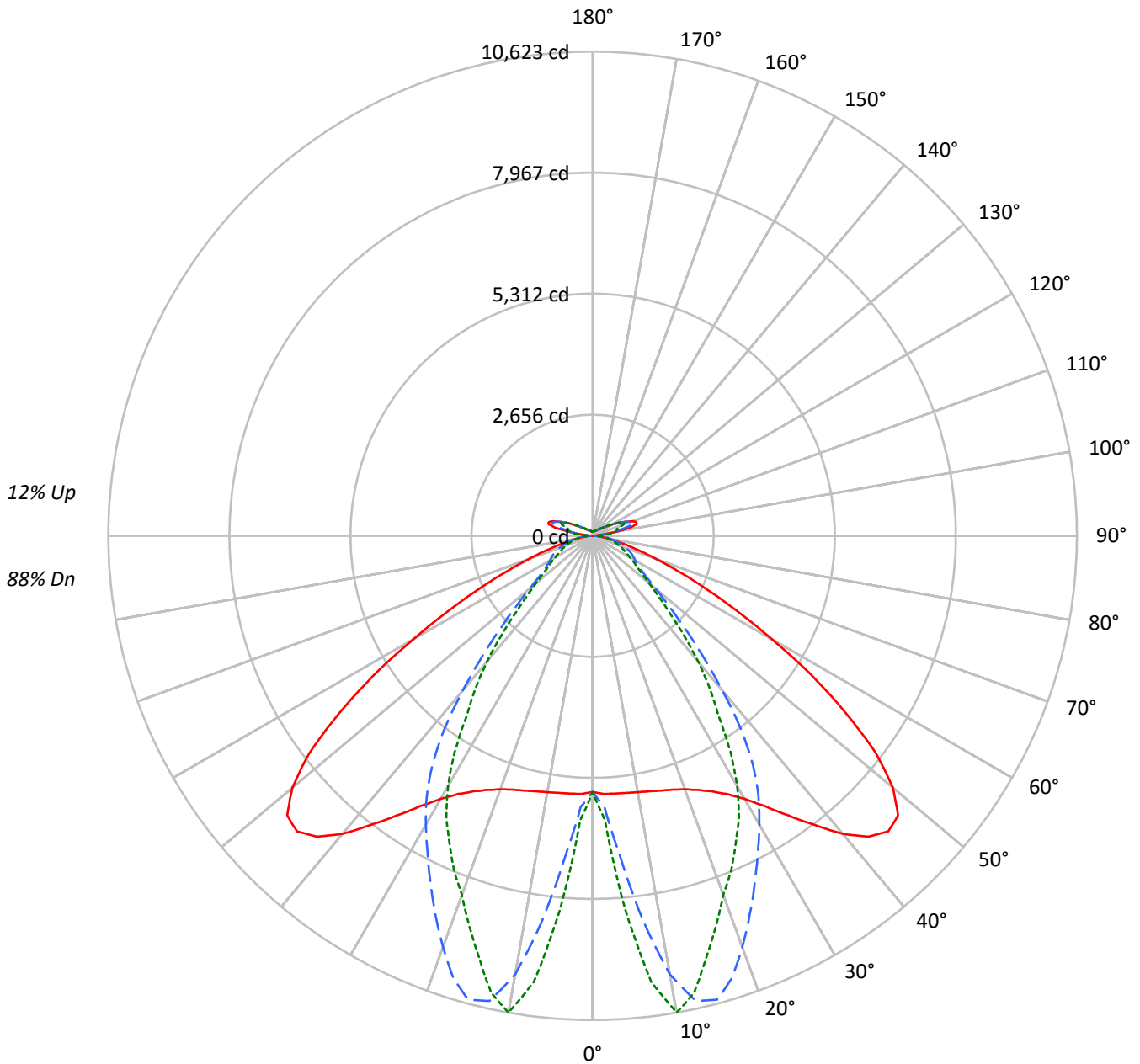
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20459.3 lumens  
Efficiency: N/A  
Efficacy: 167.2 lumens/watt  
Spacing Criteria (0/90/45): 2.18 / 1.37 / 1.3  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')  
CIE Type: Semi-Direct  
  
Input Watts (W): 122.4  
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									
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	116	116	116	116	112	112	112	112	105	105	105	98	98	98	91	91	91	88																			
1	108	104	100	97	104	100	97	94	94	92	89	88	86	84	83	81	80	77																			
2	100	93	87	82	96	90	85	80	84	80	77	80	76	73	75	72	70	67																			
3	92	83	76	71	89	81	74	69	76	71	66	72	68	64	68	64	61	59																			
4	85	75	67	61	82	73	66	60	69	63	58	65	60	56	62	58	54	52																			
5	79	68	60	54	76	66	59	53	63	56	52	60	54	50	57	52	49	46																			
6	73	62	54	48	71	60	53	47	57	51	46	55	49	45	52	47	44	42																			
7	68	56	49	43	66	55	48	43	53	46	42	50	45	40	48	43	39	37																			
8	64	52	44	39	62	51	43	38	48	42	38	46	41	37	44	40	36	34																			
9	60	48	40	35	58	47	40	35	45	39	34	43	37	33	41	36	33	31																			
10	56	44	37	32	55	43	37	32	42	36	31	40	35	31	38	34	30	28																			

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

	0°	45°	90°
0°	9601	9601	9601
5°	9650	12076	14075
10°	9736	16649	18282
15°	9968	18136	16779
20°	10380	16828	14995
25°	11137	15134	13716
30°	12419	13627	12197
35°	14600	11927	9719
40°	17555	9083	7735
45°	20137	6188	5505
50°	20415	4245	4072
55°	17671	3341	3326
60°	13200	3126	2993
65°	9048	3136	2835
70°	5785	3024	2746
75°	3479	2799	2627
80°	2047	2460	2711
85°	986	2112	2512



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	733.9	3.6
10°-20°	2590.2	12.7
20°-30°	3816.9	18.7
30°-40°	4010.9	19.6
40°-50°	3069.1	15.0
50°-60°	1853.2	9.1
60°-70°	1130.9	5.5
70°-80°	617.3	3.0
80°-90°	222.8	1.1
90°-100°	231.8	1.1
100°-110°	804.9	3.9
110°-120°	690.5	3.4
120°-130°	331.2	1.6
130°-140°	165.7	0.8
140°-150°	96.1	0.5
150°-160°	56.0	0.3
160°-170°	29.0	0.1
170°-180°	8.8	0.0
0°-30°	7141.0	34.9
0°-40°	11151.9	54.5
0°-60°	16074.2	78.6
0°-90°	18045.2	88.2
90°-120°	1727.2	8.4
90°-150°	2320.3	11.3
90°-180°	2414.0	11.8
0°-180°	20459.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5621	5621	5621	5621	5621	
5°	5678	6092	7106	7935	8241	543
15°	5788	9016	10537	9832	9601	1646
25°	6186	10464	8412	7616	7428	2891
35°	7492	8379	6128	5104	4805	4753
45°	9170	4781	2823	2484	2380	6929
55°	6782	1621	1285	1191	1187	5993
65°	2719	1026	945	809	768	2786
75°	724	638	586	483	464	833
85°	108	198	233	213	193	133
90°	5	34	47	62	69	9
95°	53	111	172	228	258	165
105°	1003	992	844	601	552	952
115°	692	699	699	697	691	698
125°	338	356	363	362	359	317
135°	200	204	211	213	215	158
145°	145	149	152	153	154	92
155°	116	118	120	121	121	54
165°	100	101	102	102	102	29
175°	90	91	91	92	92	9
180°	90	90	90	90	90	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5621.4	5621.4	5621.4	5621.4	5621.4
2.5°	5667.5	5725.3	5953.4	6190.1	6247.7
5°	5677.8	6091.5	7106.1	7934.6	8240.8
7.5°	5689.9	6684.7	8534.4	9548.7	9873.4
10°	5712.8	7434.9	9772.0	10500.2	10622.9
12.5°	5741.2	8229.7	10452.9	10426.4	10271.7
15°	5788.5	9015.8	10536.8	9832.5	9601.3
17.5°	5838.2	9680.8	10170.9	9185.9	8984.7
20°	5918.9	10174.5	9601.8	8611.3	8382.5
22.5°	6035.3	10446.0	9004.9	8091.6	7942.3
25°	6185.5	10463.5	8412.2	7615.9	7427.9
27.5°	6386.8	10220.8	7844.0	7150.0	6951.4
30°	6660.6	9756.0	7316.1	6588.1	6341.7
32.5°	7032.6	9087.1	6771.8	5909.7	5633.5
35°	7492.5	8379.4	6128.4	5103.7	4805.2
37.5°	7994.4	7593.5	5347.6	4389.9	4216.1
40°	8534.4	6783.8	4422.2	3721.9	3597.5
42.5°	8955.7	5903.5	3562.6	3093.0	2960.7
45°	9170.5	4781.4	2823.0	2484.1	2379.7
47.5°	9086.9	3711.6	2238.0	1973.8	1942.4
50°	8598.7	2740.6	1791.5	1625.9	1612.9
52.5°	7835.5	2042.7	1479.8	1377.4	1355.0
55°	6781.9	1621.3	1285.1	1191.1	1187.4
57.5°	5694.0	1377.4	1166.5	1093.7	1068.4
60°	4533.6	1228.2	1076.6	994.4	943.0
62.5°	3553.7	1123.8	1010.5	898.9	850.9
65°	2718.9	1026.4	945.4	809.0	767.8
67.5°	2026.8	933.6	865.9	714.5	690.4
70°	1476.7	838.4	775.2	635.4	616.4
72.5°	1052.5	743.4	684.6	561.2	540.2
75°	723.9	638.3	585.5	483.1	463.6
77.5°	488.4	531.0	487.9	412.4	404.3
80°	326.1	421.1	394.6	349.5	344.5
82.5°	197.9	305.7	311.4	284.2	270.5
85°	107.8	197.9	233.3	212.6	192.8
87.5°	42.2	109.7	160.8	144.4	136.0
90°	5.0	34.0	47.0	62.0	69.0
92.5°	17.0	45.0	72.0	102.0	115.0
95°	53.0	111.0	172.0	228.0	258.0
97.5°	269.0	291.0	313.0	379.0	412.0
100°	552.0	586.0	473.0	500.0	509.0
102.5°	853.0	848.0	618.0	554.0	546.0
105°	1003.0	992.0	844.0	601.0	552.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	808.0	820.0	804.0	781.0	749.0
115°	692.0	699.0	699.0	697.0	691.0
117.5°	592.0	593.0	597.0	596.0	597.0
120°	490.0	501.0	510.0	505.0	499.0
122.5°	411.0	423.0	429.0	427.0	421.0
125°	338.0	356.0	363.0	362.0	359.0
127.5°	286.0	299.0	309.0	310.0	309.0
130°	249.0	257.0	267.0	268.0	269.0
132.5°	221.0	228.0	235.0	239.0	238.0
135°	200.0	204.0	211.0	213.0	215.0
137.5°	183.0	186.0	192.0	195.0	195.0
140°	168.0	172.0	177.0	179.0	180.0
142.5°	155.0	159.0	163.0	165.0	165.0
145°	145.0	149.0	152.0	153.0	154.0
147.5°	136.0	140.0	142.0	144.0	144.0
150°	129.0	131.0	134.0	135.0	136.0
152.5°	122.0	124.0	127.0	128.0	128.0
155°	116.0	118.0	120.0	121.0	121.0
157.5°	111.0	113.0	115.0	116.0	116.0
160°	107.0	108.0	110.0	111.0	111.0
162.5°	103.0	104.0	105.0	106.0	106.0
165°	100.0	101.0	102.0	102.0	102.0
167.5°	97.0	97.0	98.0	99.0	99.0
170°	94.0	95.0	95.0	96.0	96.0
172.5°	92.0	93.0	93.0	93.0	94.0
175°	90.0	91.0	91.0	92.0	92.0
177.5°	90.0	90.0	90.0	90.0	90.0
180°	90.0	90.0	90.0	90.0	90.0



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	1007.0	1011.0	933.0	729.0	607.0
110°	929.0	938.0	893.0	816.0	718.0



(END OF REPORT)