

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: P827121

Luminaire Tested: **OHBL-18SE-NL-UNV-L840-CD-UPL12**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P827121
REPORT IS A COMBINATION OF REPORTS P826069 AND G3-2310-221-12
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-18SE-NL-UNV-L840-CD-UPL12
Description: 18000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND NO LENS AND 1200 LUMEN UPLIGHT MODULE
Light Source: -
Ballast/Driver: -

Summary

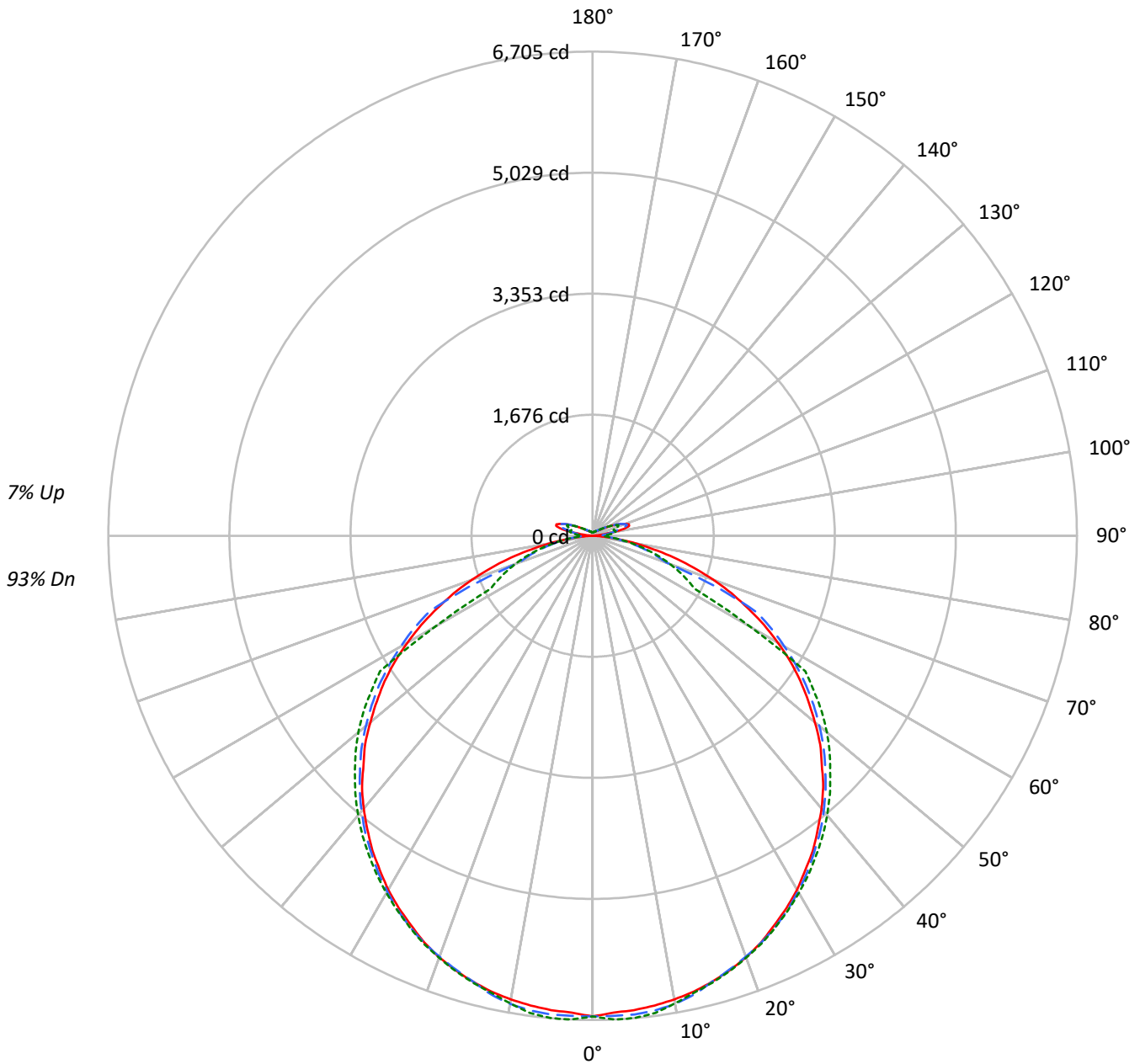
Lumens per Lamp: N/A
Luminaire Lumens: 19932.3 lumens
Efficiency: N/A
Efficacy: 175.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.1')
CIE Type: Direct

Input Watts (W): 113.4
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

TEST NUMBER: P827121

CATALOG NUMBER: OHBL-18SE-NL-UNV-L840-CD-UPL12

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	114	114	114	114	107	107	107	101	101	101	96	96	96	93																			
1	108	103	99	95	104	100	97	93	95	92	89	90	87	85	85	83	82	79																			
2	98	90	84	78	95	88	82	77	83	78	74	79	75	71	75	72	69	66																			
3	90	79	72	65	87	77	70	64	73	67	62	70	65	60	66	62	59	56																			
4	82	70	62	55	79	69	61	55	65	59	53	62	56	52	59	54	50	48																			
5	75	63	54	48	73	61	53	47	59	51	46	56	50	45	53	48	44	41																			
6	70	57	48	41	67	55	47	41	53	46	40	50	44	39	48	43	38	36																			
7	64	51	43	37	62	50	42	36	48	41	35	46	40	35	44	38	34	32																			
8	60	47	38	33	58	46	38	32	44	37	32	42	36	31	40	35	30	29																			
9	56	43	35	29	54	42	34	29	40	33	28	39	32	28	37	32	27	26																			
10	52	39	32	26	51	39	31	26	37	30	26	36	30	25	35	29	25	23																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11368	11368	11368
5°	11246	11347	11467
10°	11190	11294	11349
15°	11128	11122	11249
20°	11050	11029	11194
25°	10909	10959	11142
30°	10788	10837	11094
35°	10643	10693	11051
40°	10467	10557	11018
45°	10222	10365	10949
50°	9960	10150	10906
55°	9642	9877	10720
60°	9165	9473	8282
65°	8481	8955	5516
70°	7601	4604	5274
75°	6310	4161	4917
80°	4431	3480	4306
85°	1779	2788	3724



TEST NUMBER: P827121

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	632.3	3.2
10°-20°	1810.5	9.1
20°-30°	2754.9	13.8
30°-40°	3349.5	16.8
40°-50°	3521.9	17.7
50°-60°	3215.9	16.1
60°-70°	2061.5	10.3
70°-80°	973.8	4.9
80°-90°	273.2	1.4
90°-100°	190.5	1.0
100°-110°	433.5	2.2
110°-120°	361.0	1.8
120°-130°	170.4	0.9
130°-140°	85.2	0.4
140°-150°	49.6	0.2
150°-160°	28.9	0.1
160°-170°	15.0	0.1
170°-180°	4.6	0.0
0°-30°	5197.7	26.1
0°-40°	8547.3	42.9
0°-60°	15285.1	76.7
0°-90°	18593.6	93.3
90°-120°	985.0	4.9
90°-150°	1290.2	6.5
90°-180°	1339.0	6.7
0°-180°	19932.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6656	6656	6656	6656	6656	
5°	6594	6620	6654	6690	6704	627
15°	6394	6442	6393	6402	6407	1805
25°	5950	5960	5981	5990	5985	2746
35°	5319	5287	5348	5413	5398	3324
45°	4486	4478	4554	4661	4653	3467
55°	3515	3488	3606	3727	3736	3135
65°	2368	2368	2506	1438	1442	2348
75°	1170	1192	774	815	819	1234
85°	153	194	242	262	248	226
90°	3	83	131	158	160	9
95°	28	92	163	220	238	84
105°	523	524	455	328	302	495
115°	366	368	373	366	353	364
125°	176	183	187	185	186	164
135°	102	105	109	110	110	81
145°	75	77	78	79	80	48
155°	60	61	62	63	63	28
165°	52	52	53	53	53	15
175°	47	47	47	47	47	5
180°	46	46	46	46	46	



TEST NUMBER: P827121

CATALOG NUMBER: OHBL-18SE-NL-UNV-L840-CD-UPL12

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6655.8	6655.8	6655.8	6655.8	6655.8
2.5°	6609.1	6631.3	6655.8	6687.4	6704.8
5°	6593.9	6619.6	6653.5	6689.7	6703.7
7.5°	6561.2	6597.3	6630.1	6655.8	6664.0
10°	6520.3	6563.6	6582.3	6579.9	6574.1
12.5°	6465.4	6511.0	6505.2	6478.3	6483.0
15°	6394.2	6442.0	6393.1	6402.4	6407.0
17.5°	6310.1	6356.8	6299.6	6318.3	6319.5
20°	6212.1	6247.0	6202.7	6217.9	6217.9
22.5°	6094.1	6118.6	6099.9	6110.4	6112.8
25°	5950.4	5959.7	5980.7	5990.1	5985.4
27.5°	5812.7	5800.9	5841.9	5864.0	5852.2
30°	5659.6	5640.9	5688.8	5725.0	5711.0
32.5°	5484.4	5472.8	5527.7	5570.8	5562.7
35°	5318.6	5287.0	5347.8	5413.2	5398.0
37.5°	5122.4	5103.7	5172.6	5241.5	5233.4
40°	4930.8	4899.3	4977.6	5059.3	5051.1
42.5°	4725.3	4687.9	4773.2	4871.3	4861.9
45°	4485.8	4477.7	4553.6	4661.0	4652.9
47.5°	4273.4	4232.5	4338.7	4442.7	4452.1
50°	4016.3	4001.2	4098.2	4224.3	4233.6
52.5°	3765.3	3754.8	3856.3	3983.7	4000.0
55°	3515.3	3488.5	3606.4	3726.7	3736.1
57.5°	3248.0	3219.9	3340.2	3471.0	3490.8
60°	2961.7	2934.9	3066.8	3188.4	2535.5
62.5°	2675.6	2656.9	2794.8	1979.6	1595.4
65°	2368.5	2368.5	2506.2	1437.7	1442.3
67.5°	2081.2	2062.6	1868.7	1291.6	1291.6
70°	1772.9	1779.9	1076.7	1131.7	1132.9
72.5°	1463.4	1489.1	929.7	974.0	976.3
75°	1170.2	1192.5	774.3	815.2	818.7
77.5°	859.6	661.0	622.4	654.1	655.2
80°	603.8	416.9	476.5	506.8	503.4
82.5°	352.6	291.9	349.2	371.4	370.2
85°	153.0	193.9	241.7	261.6	247.5
87.5°	49.0	120.3	150.6	162.3	161.1
90°	3.0	83.4	131.4	158.2	160.0
92.5°	9.0	74.3	131.5	170.8	177.0
95°	28.5	91.9	163.2	220.0	238.0
97.5°	137.3	171.5	220.9	277.7	290.1
100°	278.3	316.8	283.2	316.4	322.6
102.5°	444.8	449.3	338.1	323.3	319.6
105°	522.8	523.9	454.7	327.7	301.6



TEST NUMBER: P827121

CATALOG NUMBER: OHBL-18SE-NL-UNV-L840-CD-UPL12

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	425.0	430.4	430.9	411.4	386.1
115°	365.8	368.2	372.6	366.2	353.1
117.5°	302.0	306.0	309.0	306.0	304.0
120°	253.0	259.0	261.0	257.0	257.0
122.5°	213.0	218.0	221.0	218.0	219.0
125°	176.0	183.0	187.0	185.0	186.0
127.5°	147.0	153.0	160.0	159.0	159.0
130°	128.0	132.0	137.0	138.0	138.0
132.5°	114.0	117.0	121.0	122.0	123.0
135°	102.0	105.0	109.0	110.0	110.0
137.5°	94.0	96.0	99.0	100.0	101.0
140°	86.0	89.0	91.0	92.0	92.0
142.5°	80.0	82.0	84.0	85.0	86.0
145°	75.0	77.0	78.0	79.0	80.0
147.5°	70.0	72.0	74.0	74.0	75.0
150°	67.0	68.0	69.0	70.0	70.0
152.5°	63.0	64.0	65.0	66.0	66.0
155°	60.0	61.0	62.0	63.0	63.0
157.5°	57.0	59.0	59.0	60.0	60.0
160°	55.0	56.0	57.0	57.0	57.0
162.5°	53.0	54.0	54.0	55.0	55.0
165°	52.0	52.0	53.0	53.0	53.0
167.5°	50.0	50.0	51.0	51.0	51.0
170°	49.0	49.0	49.0	50.0	50.0
172.5°	48.0	48.0	48.0	48.0	48.0
175°	47.0	47.0	47.0	47.0	47.0
177.5°	46.0	47.0	47.0	47.0	47.0
180°	46.0	46.0	46.0	46.0	46.0



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	525.8	533.6	497.3	383.5	312.5
110°	483.0	493.5	475.0	429.4	370.1



(END OF REPORT)