

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: P830017

Luminaire Tested: **OHBL-18SE-W-UNV-L940-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830017
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-18SE-W-UNV-L940-CD
Description: 18000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 4000K LEDS AND WIDE LENS
Light Source: -
Ballast/Driver: -

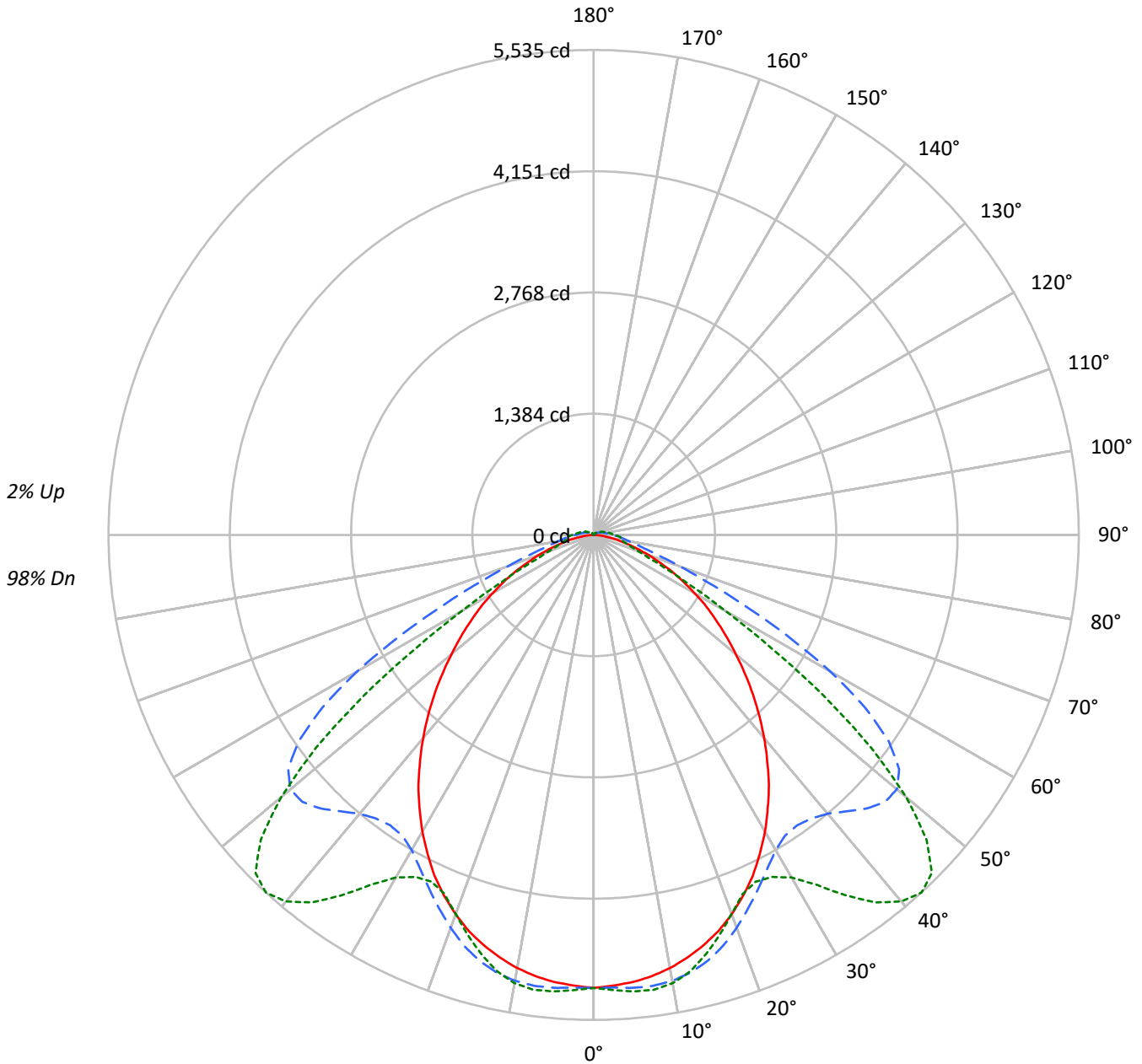
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15481.0 lumens
Efficiency: N/A
Efficacy: 147.4 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 105
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: P830017
CATALOG NUMBER: OHBL-18SE-W-UNV-L940-CD

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	119	119	119	119	116	116	116	116	110	110	110	105	105	105	100	100	100	98																			
1	109	104	100	96	106	102	98	95	97	94	91	93	90	88	89	87	85	83																			
2	99	91	85	79	96	89	83	78	85	80	76	82	77	74	78	75	72	70																			
3	90	80	72	66	88	78	71	65	75	69	64	72	67	62	69	65	61	59																			
4	83	71	62	56	80	69	61	55	67	60	54	64	58	53	62	57	52	50																			
5	76	63	54	48	74	62	54	47	60	52	47	57	51	46	55	50	45	43																			
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	50	44	40	38																			
7	65	51	43	36	63	50	42	36	49	41	36	47	40	35	45	40	35	33																			
8	60	47	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29																			
9	56	43	34	29	55	42	34	29	41	34	28	39	33	28	38	32	28	26																			
10	52	39	31	26	51	39	31	26	38	31	26	36	30	26	35	30	25	24																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8831	8831	8831
5°	8749	8819	8888
10°	8639	8805	8855
15°	8470	8659	8529
20°	8239	8362	8070
25°	7931	8001	7865
30°	7520	7733	8415
35°	7051	7877	9786
40°	6507	8530	11234
45°	5938	9676	11980
50°	5345	10699	11047
55°	4788	10685	8348
60°	4220	9040	5034
65°	3620	6242	2996
70°	2942	4035	2111
75°	2238	2891	1887
80°	1606	2538	2002
85°	1091	2787	2784



TEST NUMBER: P830017

CATALOG NUMBER: OHBL-18SE-W-UNV-L940-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	494.1	3.2
10°-20°	1399.1	9.0
20°-30°	2047.4	13.2
30°-40°	2658.9	17.2
40°-50°	3246.9	21.0
50°-60°	2859.4	18.5
60°-70°	1490.0	9.6
70°-80°	639.0	4.1
80°-90°	306.9	2.0
90°-100°	144.2	0.9
100°-110°	89.6	0.6
110°-120°	53.0	0.3
120°-130°	28.8	0.2
130°-140°	14.5	0.1
140°-150°	7.0	0.0
150°-160°	2.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3940.5	25.5
0°-40°	6599.5	42.6
0°-60°	12705.7	82.1
0°-90°	15141.6	97.8
90°-120°	286.8	1.9
90°-150°	337.0	2.2
90°-180°	339.0	2.2
0°-180°	15481.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5170	5170	5170	5170	5170	
5°	5122	5161	5189	5235	5230	486
15°	4847	4983	5031	4993	4953	1365
25°	4295	4524	4448	4364	4368	1971
35°	3486	3854	4047	4720	5022	2173
45°	2567	3229	4414	5344	5456	1979
55°	1709	2829	4111	3604	3204	1534
65°	980	1960	1882	1046	900	970
75°	395	917	605	414	393	431
85°	84	327	308	301	304	93
90°	1	118	203	232	238	6
95°	2	69	162	190	195	2
105°	4	39	105	126	128	5
115°	7	22	65	79	81	7
125°	8	11	38	49	50	7
135°	7	7	18	30	31	5
145°	9	7	8	14	17	5
155°	9	9	7	7	7	3
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P830017

CATALOG NUMBER: OHBL-18SE-W-UNV-L940-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5170.4	5170.4	5170.4	5170.4	5170.4
2.5°	5148.1	5170.4	5171.5	5202.7	5199.4
5°	5122.4	5161.4	5189.3	5235.1	5229.5
7.5°	5080.0	5141.4	5190.5	5240.6	5236.2
10°	5019.8	5103.4	5168.1	5209.4	5196.0
12.5°	4941.7	5052.1	5115.7	5124.6	5099.0
15°	4846.9	4983.0	5030.9	4993.0	4952.8
17.5°	4739.8	4899.3	4916.0	4833.5	4783.3
20°	4605.9	4787.8	4771.0	4657.2	4601.5
22.5°	4457.6	4665.0	4611.5	4492.1	4438.6
25°	4294.7	4524.5	4447.5	4363.9	4368.3
27.5°	4103.9	4365.0	4290.2	4328.2	4399.6
30°	3909.8	4197.6	4151.9	4372.8	4513.3
32.5°	3696.8	4025.9	4067.1	4503.3	4733.1
35°	3486.0	3854.1	4047.1	4719.7	5022.0
37.5°	3252.8	3680.1	4079.4	4969.6	5286.4
40°	3026.4	3510.5	4153.0	5193.8	5461.5
42.5°	2795.5	3358.8	4276.9	5326.5	5535.1
45°	2566.8	3229.4	4414.1	5344.4	5455.9
47.5°	2338.1	3120.1	4508.9	5202.7	5151.4
50°	2117.2	3023.0	4515.6	4862.5	4652.8
52.5°	1910.9	2933.8	4392.9	4320.4	3994.6
55°	1709.0	2828.9	4110.6	3604.2	3203.7
57.5°	1524.9	2683.9	3675.6	2834.5	2397.2
60°	1329.7	2487.6	3113.4	2073.7	1729.0
62.5°	1150.1	2243.3	2483.1	1443.5	1242.7
65°	980.5	1959.9	1881.9	1046.3	900.2
67.5°	800.9	1666.6	1388.8	763.0	669.3
70°	660.4	1394.4	1034.1	593.4	538.8
72.5°	516.5	1135.6	773.0	481.9	451.8
75°	394.9	916.9	604.6	413.9	392.7
77.5°	291.1	725.1	486.4	365.9	345.8
80°	204.1	571.1	407.2	326.8	319.0
82.5°	137.2	441.7	346.9	311.2	312.3
85°	83.7	326.8	307.9	301.2	304.5
87.5°	40.2	232.0	264.4	274.4	277.8
90°	1.1	118.2	203.0	232.0	237.6
92.5°	0.0	90.4	178.5	207.5	213.1
95°	2.2	69.2	161.7	189.6	195.2
97.5°	2.2	56.9	145.0	174.0	177.4
100°	3.3	49.1	129.4	157.3	160.6
102.5°	3.3	43.5	116.0	140.6	142.8
105°	4.5	39.0	104.9	126.1	128.3



TEST NUMBER: P830017

CATALOG NUMBER: OHBL-18SE-W-UNV-L940-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	6.7	26.8	73.6	89.2	91.5
115°	6.7	22.3	64.7	79.2	81.4
117.5°	7.8	20.1	56.9	70.3	71.4
120°	7.8	16.7	49.1	62.5	63.6
122.5°	7.8	13.4	43.5	55.8	56.9
125°	7.8	11.2	37.9	49.1	50.2
127.5°	6.7	7.8	32.3	43.5	44.6
130°	6.7	6.7	26.8	37.9	40.2
132.5°	6.7	6.7	22.3	33.5	35.7
135°	6.7	6.7	17.8	30.1	31.2
137.5°	6.7	6.7	14.5	25.7	27.9
140°	6.7	6.7	11.2	22.3	23.4
142.5°	7.8	6.7	10.0	19.0	20.1
145°	8.9	6.7	7.8	14.5	16.7
147.5°	8.9	7.8	7.8	12.3	13.4
150°	8.9	8.9	6.7	8.9	11.2
152.5°	8.9	8.9	6.7	6.7	8.9
155°	8.9	8.9	6.7	6.7	6.7
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°	5.6	34.6	93.7	112.7	<i>114.9</i>
110°	5.6	30.1	82.5	100.4	<i>102.6</i>



(END OF REPORT)