

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: P829953

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

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P829953  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-200-1)  
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  
Description: 18000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND AISLE LENS  
Light Source: -  
Ballast/Driver: -

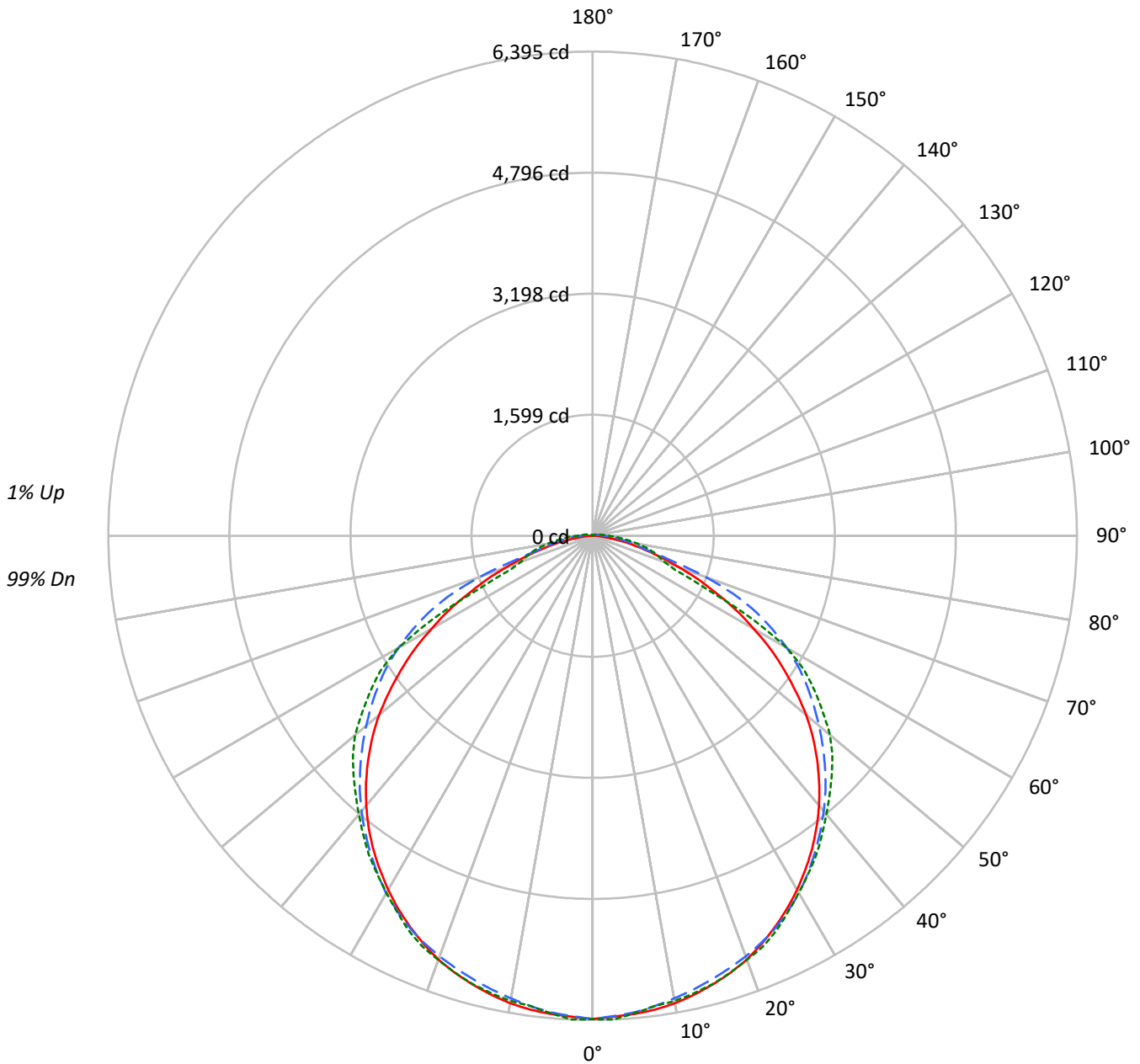
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18039.0 lumens  
Efficiency: N/A  
Efficacy: 171.8 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39  
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<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: P829953

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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				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	119	119	119	119	116	116	116	116	110	110	110	106	106	106	101	101	101	99				99
1	109	104	100	96	106	102	98	95	97	94	91	93	91	88	90	87	86	83				83
2	99	91	84	79	96	89	83	78	85	80	76	82	78	74	79	75	72	70				70
3	91	80	72	66	88	79	71	65	75	69	64	72	67	63	70	65	61	59				59
4	83	71	62	56	81	70	62	55	67	60	54	65	59	54	62	57	53	51				51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	46	56	50	46	44				44
6	70	57	48	42	68	56	48	42	54	47	41	52	46	41	51	45	40	38				38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36	34				34
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	42	36	32	30				30
9	57	43	35	30	55	43	35	29	41	34	29	40	34	29	39	33	29	27				27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	36	30	26	24				24

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

	0°	45°	90°
0°	10901	10901	10901
5°	10829	10737	10758
10°	10790	10570	10632
15°	10721	10444	10554
20°	10653	10362	10453
25°	10524	10280	10354
30°	10384	10153	10150
35°	10217	9955	10034
40°	10000	9750	9878
45°	9699	9514	9804
50°	9291	9245	9715
55°	8642	8979	9339
60°	7793	8593	8619
65°	6685	7884	5451
70°	5385	6142	3940
75°	4037	3635	3982
80°	2810	3008	3776
85°	1599	2732	3493



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	601.8	3.3
10°-20°	1725.6	9.6
20°-30°	2635.6	14.6
30°-40°	3197.9	17.7
40°-50°	3351.7	18.6
50°-60°	3037.1	16.8
60°-70°	2036.3	11.3
70°-80°	914.4	5.1
80°-90°	331.8	1.8
90°-100°	99.9	0.6
100°-110°	47.1	0.3
110°-120°	23.6	0.1
120°-130°	13.0	0.1
130°-140°	9.0	0.0
140°-150°	6.0	0.0
150°-160°	4.5	0.0
160°-170°	2.9	0.0
170°-180°	0.9	0.0
0°-30°	4963.0	27.5
0°-40°	8160.9	45.2
0°-60°	14549.7	80.7
0°-90°	17832.1	98.9
90°-120°	170.6	0.9
90°-150°	198.6	1.1
90°-180°	207.0	1.1
0°-180°	18039.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6382	6382	6382	6382	6382	
5°	6341	6363	6318	6338	6330	603
15°	6135	6111	6068	6121	6128	1732
25°	5699	5674	5714	5767	5750	2627
35°	5052	5064	5115	5170	5149	3157
45°	4192	4261	4340	4451	4465	3230
55°	3085	3234	3454	3592	3584	2754
65°	1811	2094	2377	2006	1638	1804
75°	712	1034	760	778	829	779
85°	123	235	302	364	382	150
90°	1	78	156	196	205	7
95°	1	49	107	130	134	1
105°	4	21	53	64	66	4
115°	7	11	27	34	36	7
125°	6	7	17	19	20	6
135°	8	9	10	15	16	7
145°	8	9	9	10	11	5
155°	9	10	10	10	9	4
165°	10	10	10	10	10	3
175°	10	10	9	8	8	1
180°	9	9	9	9	9	



TEST NUMBER: P829953

CATALOG NUMBER: OHBL-18SE-A-UNV-L840-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6382.2	6382.2	6382.2	6382.2	6382.2
2.5°	6356.4	6383.1	6349.9	6385.9	6395.1
5°	6340.7	6362.8	6318.5	6337.9	6329.6
7.5°	6312.1	6319.5	6266.9	6282.5	6265.9
10°	6269.6	6265.9	6204.1	6234.6	6238.3
12.5°	6206.9	6195.8	6140.4	6186.6	6187.5
15°	6134.9	6110.9	6067.5	6121.1	6128.4
17.5°	6051.8	6020.5	5991.9	6061.1	6050.0
20°	5954.9	5918.0	5912.5	5988.2	5960.5
22.5°	5835.0	5806.4	5819.3	5891.3	5873.7
25°	5699.3	5674.4	5714.1	5766.7	5750.1
27.5°	5556.3	5541.5	5586.7	5627.3	5595.0
30°	5399.4	5391.1	5451.1	5484.3	5443.7
32.5°	5228.7	5231.5	5288.7	5333.9	5296.1
35°	5051.5	5063.5	5115.2	5169.6	5149.3
37.5°	4856.8	4883.6	4935.2	4997.1	4975.8
40°	4651.0	4689.8	4747.0	4821.7	4802.3
42.5°	4428.6	4477.5	4551.3	4634.4	4632.5
45°	4192.4	4260.7	4340.0	4450.8	4464.6
47.5°	3946.9	4023.5	4124.1	4271.7	4293.0
50°	3680.2	3776.2	3901.7	4078.9	4091.8
52.5°	3383.1	3514.1	3680.2	3850.0	3834.3
55°	3085.0	3233.6	3454.1	3592.5	3584.2
57.5°	2787.8	2954.9	3222.5	3321.2	3320.3
60°	2455.6	2666.9	2959.5	3034.2	2960.4
62.5°	2148.3	2375.3	2678.9	2624.5	2371.6
65°	1810.6	2093.9	2377.2	2006.2	1638.0
67.5°	1510.7	1806.0	2019.1	1374.1	1176.6
70°	1208.9	1534.6	1574.3	1019.7	1005.9
72.5°	941.3	1288.3	1086.2	873.0	917.3
75°	712.4	1033.6	760.4	777.9	828.7
77.5°	519.5	793.6	591.5	682.0	723.5
80°	357.1	562.0	482.6	573.1	601.7
82.5°	224.2	371.0	386.7	461.4	490.9
85°	122.7	235.3	301.8	364.5	382.0
87.5°	50.8	142.1	230.7	281.5	296.2
90°	0.9	78.4	156.0	195.6	204.9
92.5°	0.9	60.0	127.3	157.8	164.3
95°	0.9	48.9	107.0	130.1	133.8
97.5°	1.8	38.8	89.5	108.0	111.7
100°	2.8	32.3	74.7	90.4	93.2
102.5°	3.7	25.8	62.8	75.7	78.4
105°	3.7	21.2	52.6	63.7	66.4



TEST NUMBER: P829953

CATALOG NUMBER: OHBL-18SE-A-UNV-L840-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	6.5	12.9	31.4	39.7	41.5
115°	7.4	11.1	26.8	34.1	36.0
117.5°	7.4	9.2	23.1	28.6	30.5
120°	7.4	8.3	20.3	24.9	25.8
122.5°	7.4	7.4	17.5	22.1	23.1
125°	6.5	7.4	16.6	19.4	20.3
127.5°	7.4	7.4	14.8	17.5	18.5
130°	7.4	8.3	12.9	16.6	16.6
132.5°	8.3	9.2	12.0	15.7	15.7
135°	8.3	9.2	10.2	14.8	15.7
137.5°	9.2	9.2	9.2	13.8	14.8
140°	9.2	9.2	8.3	12.0	12.9
142.5°	8.3	9.2	8.3	11.1	12.0
145°	8.3	9.2	9.2	10.2	11.1
147.5°	9.2	9.2	9.2	9.2	10.2
150°	9.2	9.2	9.2	9.2	9.2
152.5°	9.2	9.2	9.2	9.2	9.2
155°	9.2	10.2	10.2	10.2	9.2
157.5°	9.2	10.2	10.2	10.2	10.2
160°	9.2	10.2	10.2	10.2	10.2
162.5°	10.2	10.2	10.2	10.2	10.2
165°	10.2	10.2	10.2	10.2	10.2
167.5°	10.2	11.1	10.2	10.2	10.2
170°	10.2	10.2	10.2	9.2	9.2
172.5°	10.2	10.2	10.2	9.2	9.2
175°	10.2	10.2	9.2	8.3	8.3
177.5°	11.1	10.2	9.2	8.3	7.4
180°	9.2	9.2	9.2	9.2	9.2



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	4.6	17.5	45.2	54.4	56.3
110°	5.5	14.8	37.8	46.1	48.0



(END OF REPORT)