

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: P829960

Luminaire Tested: **OHBL-18SE-MCL-UNV-L735-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P829960  
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-MCL-UNV-L735-CD  
Description: 18000 LUMEN OHBL SE LED LUMINAIRE WITH 70CRI, 3500K LEDS AND MEDIUM CLEAR LENS  
Light Source: -  
Ballast/Driver: -

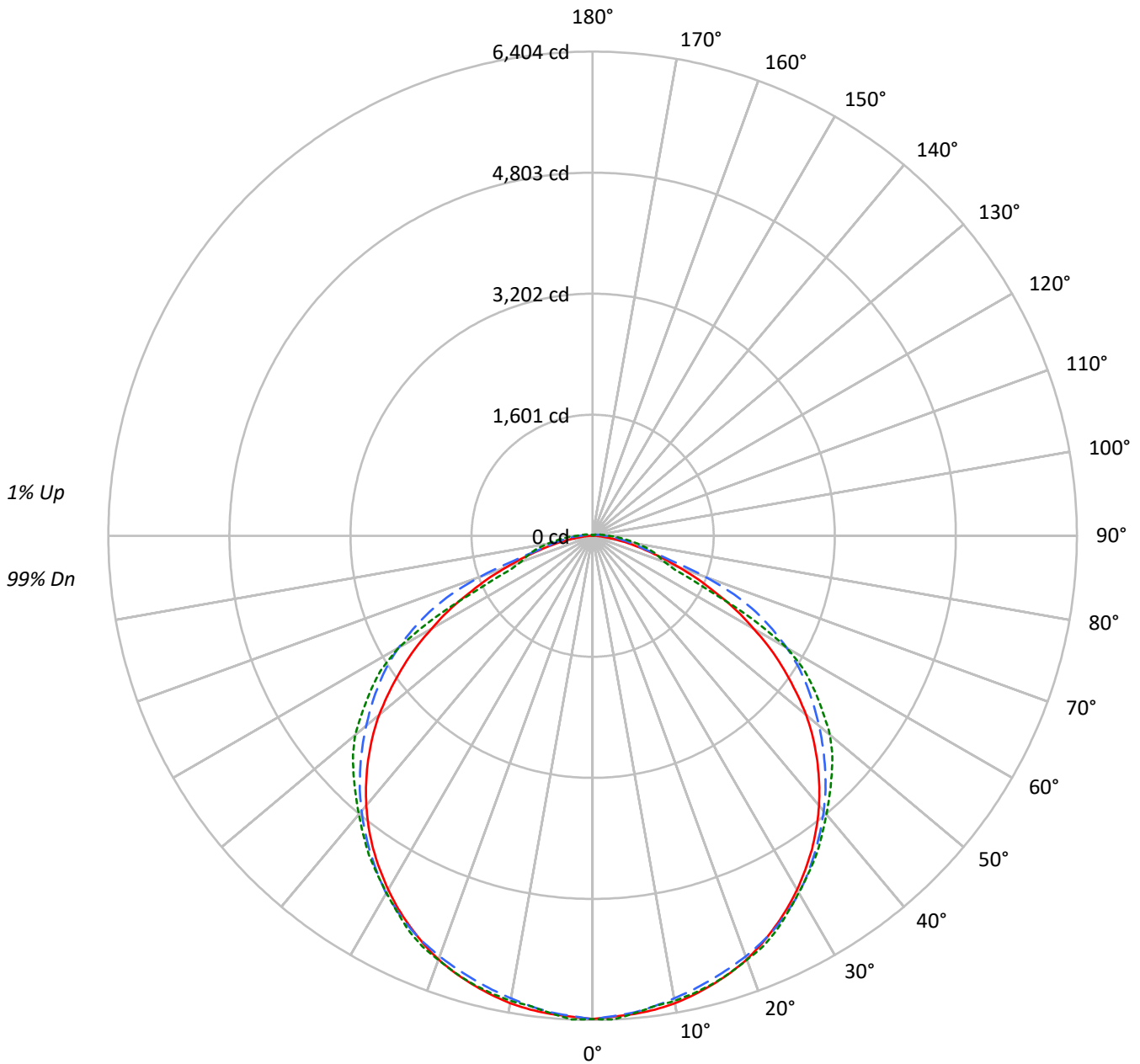
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18064.0 lumens  
Efficiency: N/A  
Efficacy: 172.0 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

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

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

	0°	45°	90°
0°	10916	10916	10916
5°	10844	10752	10773
10°	10805	10585	10646
15°	10736	10458	10568
20°	10668	10377	10468
25°	10539	10294	10368
30°	10399	10167	10164
35°	10231	9969	10048
40°	10014	9764	9892
45°	9712	9527	9817
50°	9304	9258	9728
55°	8654	8991	9352
60°	7804	8605	8631
65°	6695	7895	5458
70°	5392	6151	3946
75°	4043	3641	3988
80°	2814	3013	3781
85°	1601	2736	3498



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	602.6	3.3
10°-20°	1728.0	9.6
20°-30°	2639.2	14.6
30°-40°	3202.3	17.7
40°-50°	3356.3	18.6
50°-60°	3041.3	16.8
60°-70°	2039.1	11.3
70°-80°	915.6	5.1
80°-90°	332.3	1.8
90°-100°	100.0	0.6
100°-110°	47.2	0.3
110°-120°	23.6	0.1
120°-130°	13.1	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°	4969.9	27.5
0°-40°	8172.2	45.2
0°-60°	14569.8	80.7
0°-90°	17856.8	98.9
90°-120°	170.9	0.9
90°-150°	198.9	1.1
90°-180°	207.0	1.1
0°-180°	18064.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6391	6391	6391	6391	6391	
5°	6350	6372	6327	6347	6338	604
15°	6143	6119	6076	6130	6137	1735
25°	5707	5682	5722	5775	5758	2631
35°	5058	5070	5122	5177	5156	3162
45°	4198	4267	4346	4457	4471	3234
55°	3089	3238	3459	3598	3589	2758
65°	1813	2097	2380	2009	1640	1807
75°	713	1035	762	779	830	780
85°	123	236	302	365	383	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	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6391.1	6391.1	6391.1	6391.1	6391.1
2.5°	6365.2	6392.0	6358.7	6394.8	6404.0
5°	6349.5	6371.7	6327.3	6346.7	6338.4
7.5°	6320.8	6328.2	6275.5	6291.3	6274.6
10°	6278.3	6274.6	6212.7	6243.2	6246.9
12.5°	6215.5	6204.4	6148.9	6195.1	6196.1
15°	6143.4	6119.4	6075.9	6129.5	6136.9
17.5°	6060.2	6028.8	6000.2	6069.5	6058.4
20°	5963.2	5926.2	5920.7	5996.5	5968.7
22.5°	5843.1	5814.4	5827.4	5899.4	5881.9
25°	5707.2	5682.3	5722.0	5774.7	5758.1
27.5°	5564.0	5549.2	5594.5	5635.1	5602.8
30°	5406.9	5398.6	5458.6	5491.9	5451.3
32.5°	5235.9	5238.7	5296.0	5341.3	5303.4
35°	5058.5	5070.5	5122.3	5176.8	5156.5
37.5°	4863.5	4890.3	4942.1	5004.0	4982.7
40°	4657.5	4696.3	4753.6	4828.4	4809.0
42.5°	4434.7	4483.7	4557.6	4640.8	4639.0
45°	4198.2	4266.6	4346.0	4456.9	4470.8
47.5°	3952.4	4029.1	4129.8	4277.6	4298.9
50°	3685.3	3781.4	3907.1	4084.5	4097.4
52.5°	3387.7	3519.0	3685.3	3855.3	3839.6
55°	3089.3	3238.0	3458.9	3597.5	3589.2
57.5°	2791.7	2959.0	3226.9	3325.8	3324.9
60°	2459.0	2670.6	2963.6	3038.4	2964.5
62.5°	2151.3	2378.6	2682.7	2628.1	2374.9
65°	1813.1	2096.8	2380.5	2009.0	1640.3
67.5°	1512.7	1808.5	2021.9	1376.0	1178.2
70°	1210.6	1536.8	1576.5	1021.1	1007.3
72.5°	942.6	1290.0	1087.7	874.2	918.6
75°	713.4	1035.0	761.5	779.0	829.8
77.5°	520.3	794.7	592.3	682.9	724.5
80°	357.6	562.8	483.3	573.9	602.5
82.5°	224.6	371.5	387.2	462.0	491.6
85°	122.9	235.6	302.2	365.0	382.6
87.5°	50.8	142.3	231.0	281.8	296.6
90°	0.9	78.5	156.2	195.9	205.1
92.5°	0.9	60.1	127.5	158.0	164.5
95°	0.9	49.0	107.2	130.3	134.0
97.5°	1.8	38.8	89.6	108.1	111.8
100°	2.8	32.3	74.9	90.6	93.3
102.5°	3.7	25.9	62.8	75.8	78.5
105°	3.7	21.3	52.7	63.8	66.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	6.5	12.9	31.4	39.7	41.6
115°	7.4	11.1	26.8	34.2	36.0
117.5°	7.4	9.2	23.1	28.6	30.5
120°	7.4	8.3	20.3	25.0	25.9
122.5°	7.4	7.4	17.6	22.2	23.1
125°	6.5	7.4	16.6	19.4	20.3
127.5°	7.4	7.4	14.8	17.6	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	13.9	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	17.6	45.3	54.5	56.4
110°	5.5	14.8	37.9	46.2	48.1



(END OF REPORT)