

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: P830753

Luminaire Tested: **OHBL-72SE-MCL-UNV-L740-CD**

Issue Date: 5/3/2024



**Test Information**

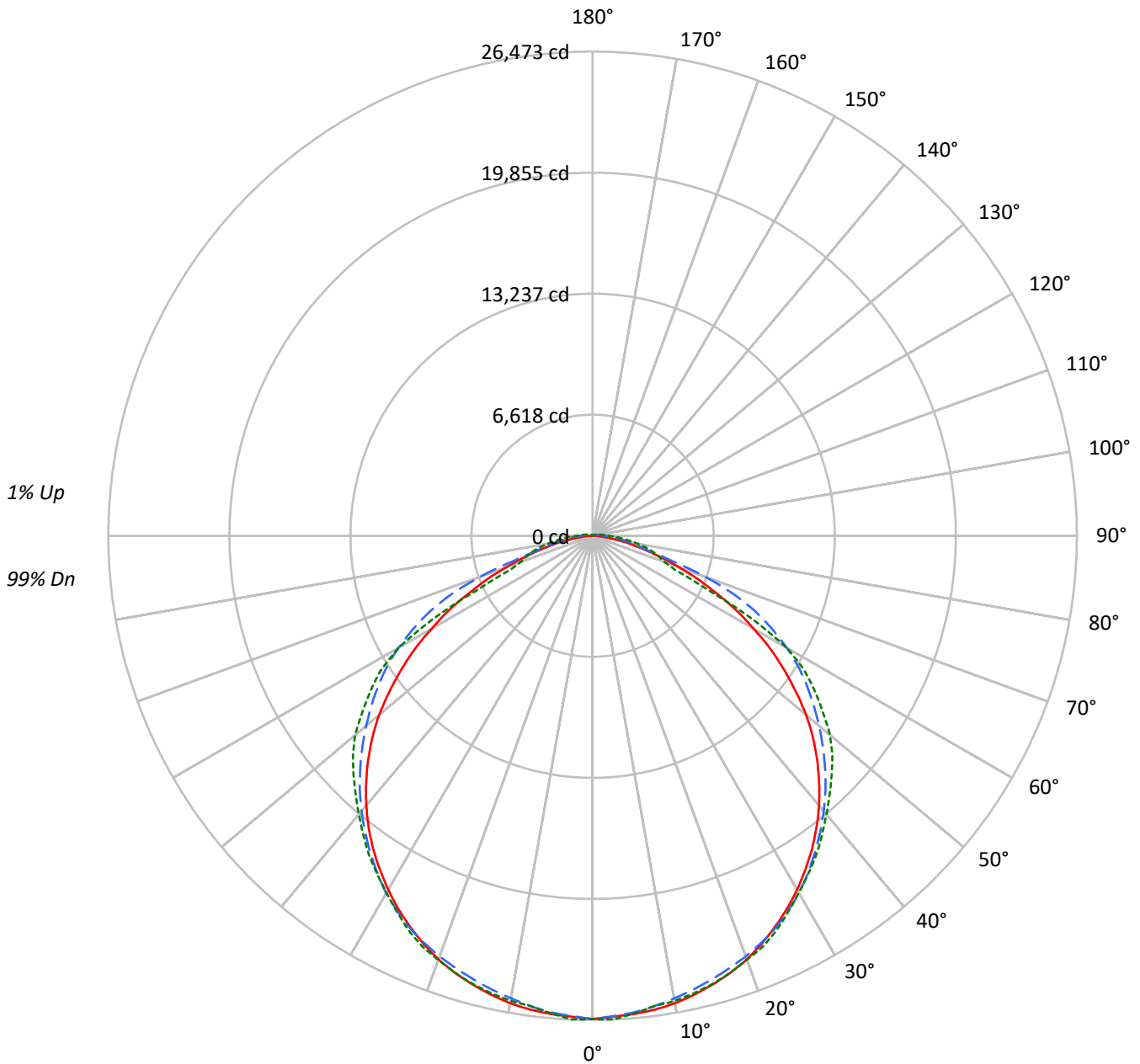
Test Method: LM-79-08  
Report Number: P830753  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-200-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-72SE-MCL-UNV-L740-CD  
Description: 72000 LUMEN OHBL SE LED LUMINAIRE WITH 70CRI, 4000K LEDS AND MEDIUM CLEAR LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 74673.0 lumens  
Efficiency: N/A  
Efficacy: 180.5 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 413.7  
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°	41782	41782	41782
5°	41508	41175	41261
10°	41356	40551	40803
15°	41094	40084	40530
20°	40831	39791	40171
25°	40339	39495	39815
30°	39803	39029	39062
35°	39162	38289	38647
40°	38329	37524	38081
45°	37175	36639	37831
50°	35611	35633	37531
55°	33125	34642	36130
60°	29871	33192	33403
65°	25624	30501	21169
70°	20639	23811	15348
75°	15474	14135	15577
80°	10771	11753	14872
85°	6130	10769	13940



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2491.1	3.3
10°-20°	7143.3	9.6
20°-30°	10910.1	14.6
30°-40°	13237.7	17.7
40°-50°	13874.3	18.6
50°-60°	12572.2	16.8
60°-70°	8429.2	11.3
70°-80°	3785.1	5.1
80°-90°	1373.6	1.8
90°-100°	413.4	0.6
100°-110°	195.1	0.3
110°-120°	97.8	0.1
120°-130°	54.0	0.1
130°-140°	37.1	0.0
140°-150°	24.9	0.0
150°-160°	18.5	0.0
160°-170°	11.9	0.0
170°-180°	3.8	0.0
0°-30°	20544.5	27.5
0°-40°	33782.1	45.2
0°-60°	60228.7	80.7
0°-90°	73816.5	98.9
90°-120°	706.3	0.9
90°-150°	822.3	1.1
90°-180°	856.0	1.1
0°-180°	74673.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	26419	26419	26419	26419	26419	
5°	26248	26339	26156	26236	26202	###
15°	25396	25296	25117	25338	25369	7170
25°	23592	23489	23654	23871	23803	10875
35°	20911	20960	21174	21400	21316	13070
45°	17354	17637	17966	18424	18481	13369
55°	12770	13385	14298	14871	14837	11399
65°	7495	8668	9840	8305	6781	7468
75°	2949	4278	3148	3220	3430	3223
85°	508	974	1249	1509	1582	620
90°	4	325	646	810	848	30
95°	4	202	443	539	554	5
105°	15	88	218	264	275	18
115°	31	46	111	141	149	28
125°	27	31	69	80	84	27
135°	34	38	42	61	65	27
145°	34	38	38	42	46	23
155°	38	42	42	42	38	18
165°	42	42	42	42	42	12
175°	42	42	38	34	34	4
180°	38	38	38	38	38	



TEST NUMBER: P830753

CATALOG NUMBER: OHBL-72SE-MCL-UNV-L740-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	26419.4	26419.4	26419.4	26419.4	26419.4
2.5°	26312.4	26423.2	26285.7	26434.7	26472.9
5°	26247.5	26339.1	26155.8	26236.0	26201.6
7.5°	26129.0	26159.6	25941.9	26006.8	25938.0
10°	25953.3	25938.0	25682.1	25808.2	25823.4
12.5°	25693.6	25647.7	25418.5	25609.5	25613.3
15°	25395.6	25296.3	25116.7	25338.3	25368.9
17.5°	25051.8	24921.9	24803.5	25090.0	25044.2
20°	24650.7	24497.9	24475.0	24788.2	24673.6
22.5°	24154.1	24035.7	24089.1	24387.1	24314.5
25°	23592.5	23489.4	23653.7	23871.4	23802.6
27.5°	23000.4	22939.3	23126.5	23294.6	23160.9
30°	22351.0	22316.7	22565.0	22702.5	22534.4
32.5°	21644.3	21655.8	21892.6	22079.8	21923.2
35°	20910.9	20960.5	21174.5	21399.8	21315.8
37.5°	20104.9	20215.6	20429.6	20685.5	20597.6
40°	19253.0	19413.4	19650.3	19959.7	19879.5
42.5°	18332.4	18534.8	18840.4	19184.2	19176.6
45°	17354.4	17637.1	17965.6	18424.0	18481.3
47.5°	16338.3	16655.4	17071.7	17682.9	17770.8
50°	15234.3	15631.6	16151.1	16884.6	16938.0
52.5°	14004.3	14546.7	15234.3	15937.2	15872.3
55°	12770.4	13385.4	14298.4	14871.4	14837.0
57.5°	11540.3	12231.8	13339.6	13748.3	13744.5
60°	10165.1	11039.9	12250.9	12560.3	12254.7
62.5°	8893.0	9832.8	11089.6	10864.2	9817.5
65°	7494.9	8667.7	9840.4	8304.8	6780.6
67.5°	6253.4	7475.8	8358.2	5688.0	4870.5
70°	5004.2	6352.7	6517.0	4221.1	4163.8
72.5°	3896.4	5332.8	4496.2	3613.8	3797.1
75°	2949.1	4278.4	3147.7	3220.3	3430.4
77.5°	2150.7	3285.2	2448.6	2823.0	2994.9
80°	1478.4	2326.4	1997.9	2372.2	2490.7
82.5°	928.3	1535.7	1600.6	1910.0	2032.3
85°	508.1	974.1	1249.2	1508.9	1581.5
87.5°	210.1	588.3	955.0	1165.1	1226.2
90°	3.8	324.7	645.6	809.8	848.0
92.5°	3.8	248.3	527.2	653.2	680.0
95°	3.8	202.5	443.1	538.6	553.9
97.5°	7.6	160.4	370.5	446.9	462.2
100°	11.5	133.7	309.4	374.4	385.8
102.5°	15.3	107.0	259.8	313.2	324.7
105°	15.3	87.9	217.7	263.6	275.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	26.7	53.5	129.9	164.3	171.9
115°	30.6	45.8	110.8	141.3	149.0
117.5°	30.6	38.2	95.5	118.4	126.1
120°	30.6	34.4	84.0	103.1	107.0
122.5°	30.6	30.6	72.6	91.7	95.5
125°	26.7	30.6	68.8	80.2	84.0
127.5°	30.6	30.6	61.1	72.6	76.4
130°	30.6	34.4	53.5	68.8	68.8
132.5°	34.4	38.2	49.7	64.9	64.9
135°	34.4	38.2	42.0	61.1	64.9
137.5°	38.2	38.2	38.2	57.3	61.1
140°	38.2	38.2	34.4	49.7	53.5
142.5°	34.4	38.2	34.4	45.8	49.7
145°	34.4	38.2	38.2	42.0	45.8
147.5°	38.2	38.2	38.2	38.2	42.0
150°	38.2	38.2	38.2	38.2	38.2
152.5°	38.2	38.2	38.2	38.2	38.2
155°	38.2	42.0	42.0	42.0	38.2
157.5°	38.2	42.0	42.0	42.0	42.0
160°	38.2	42.0	42.0	42.0	42.0
162.5°	42.0	42.0	42.0	42.0	42.0
165°	42.0	42.0	42.0	42.0	42.0
167.5°	42.0	45.8	42.0	42.0	42.0
170°	42.0	42.0	42.0	38.2	38.2
172.5°	42.0	42.0	42.0	38.2	38.2
175°	42.0	42.0	38.2	34.4	34.4
177.5°	45.8	42.0	38.2	34.4	30.6
180°	38.2	38.2	38.2	38.2	38.2



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	19.1	72.6	187.2	225.4	233.0
110°	22.9	61.1	156.6	191.0	198.6



(END OF REPORT)