

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: P830788

Luminaire Tested: **OHBL-72SE-NL-UNV-L735-CD**

Issue Date: 5/3/2024



**Test Information**

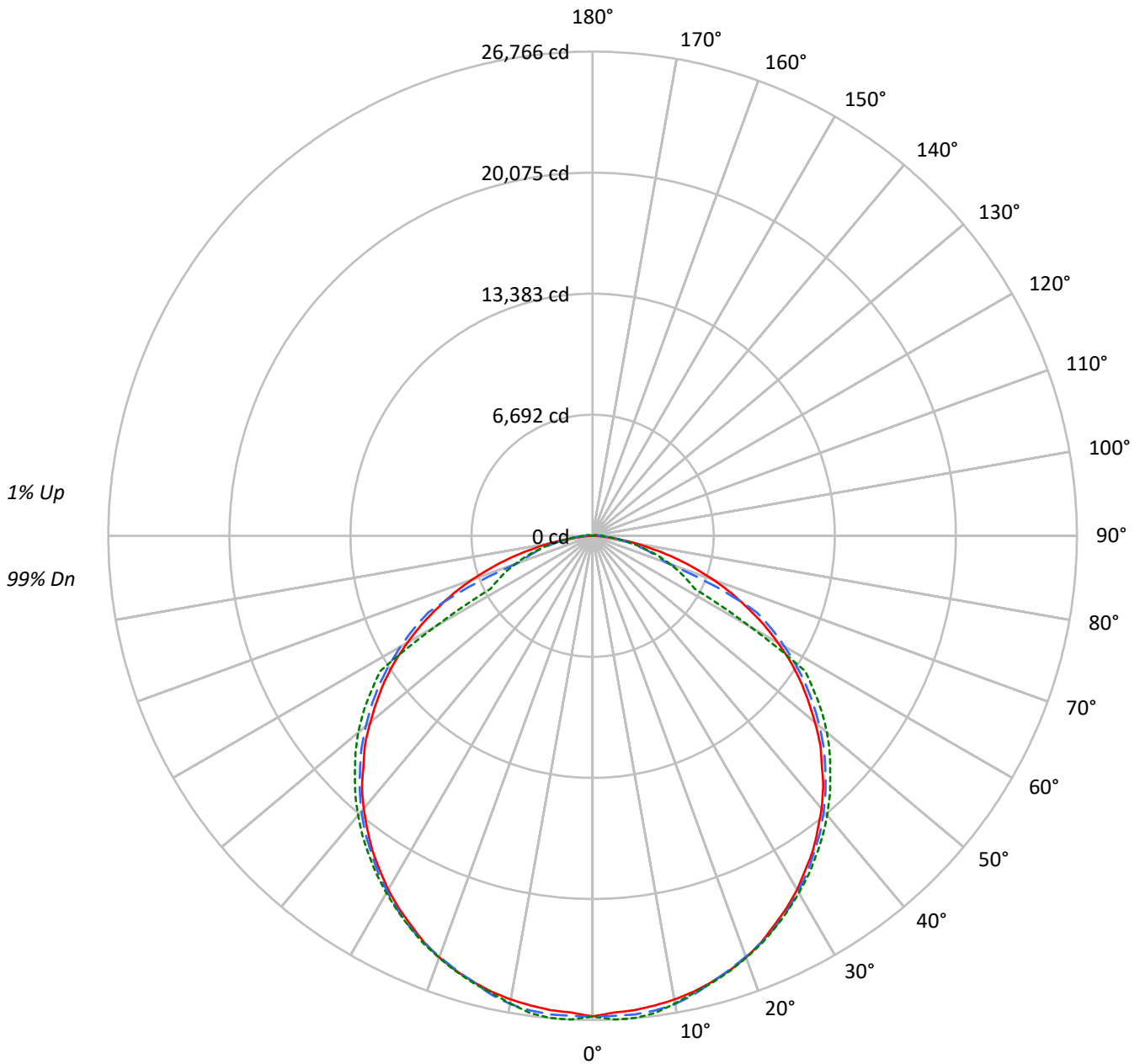
Test Method: LM-79-08  
Report Number: P830788  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P472951)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-72SE-NL-UNV-L735-CD  
Description: 72000 LUMEN OHBL SE LED LUMINAIRE WITH 70CRI, 3500K LEDS AND NO LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 74601.0 lumens  
Efficiency: N/A  
Efficacy: 180.3 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39  
Luminous Opening: Rectangular (W 1.8' x L: 3.78' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 413.7  
Input Voltage (V): NR  
Input Current (Ain): 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					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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	99								
1	109	105	100	97	106	102	99	95	98	95	92	94	91	89	90	88	86	84								
2	99	92	85	79	97	90	84	78	86	81	76	83	78	75	80	76	73	71								
3	91	81	73	66	88	79	72	66	76	70	64	73	68	63	70	66	62	60								
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51								
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44								
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39								
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34								
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30								
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27								
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25								

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

	0°	45°	90°
0°	42021	42021	42021
5°	41789	42167	42485
10°	41801	42198	42146
15°	41794	41786	41878
20°	41737	41673	41776
25°	41451	41662	41695
30°	41259	41472	41634
35°	40992	41217	41604
40°	40638	41023	41630
45°	40052	40657	41543
50°	39448	40252	41582
55°	38694	39697	41124
60°	37397	38725	32016
65°	35383	37440	21547
70°	32726	19875	20912
75°	28545	18887	19970
80°	21951	17326	18301
85°	11080	17510	17931



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2524.3	3.4
10°-20°	7227.9	9.7
20°-30°	10997.8	14.7
30°-40°	13371.8	17.9
40°-50°	14059.8	18.8
50°-60°	12838.3	17.2
60°-70°	8230.0	11.0
70°-80°	3887.7	5.2
80°-90°	1078.0	1.4
90°-100°	285.5	0.4
100°-110°	78.2	0.1
110°-120°	21.7	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	20750.0	27.8
0°-40°	34121.8	45.7
0°-60°	61019.9	81.8
0°-90°	74215.7	99.5
90°-120°	385.3	0.5
90°-150°	385.3	0.5
90°-180°	385.0	0.5
0°-180°	74601.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	26571	26571	26571	26571	26571	
5°	26324	26426	26562	26706	26762	###
15°	25526	25718	25522	25559	25578	7207
25°	23755	23792	23876	23913	23895	10961
35°	21232	21107	21349	21610	21549	13269
45°	17908	17875	18178	18607	18575	13842
55°	14034	13926	14397	14878	14915	12516
65°	9455	9455	10005	5739	5758	9374
75°	4672	4760	3091	3254	3268	4925
85°	611	774	965	1044	988	903
90°	0	261	429	508	499	27
95°	14	135	308	415	415	8
105°	23	51	74	74	70	23
115°	23	33	46	33	4	16
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CATALOG NUMBER: OHBL-72SE-NL-UNV-L735-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	26571.0	26571.0	26571.0	26571.0	26571.0
2.5°	26384.4	26473.2	26571.0	26696.8	26766.4
5°	26323.7	26426.3	26561.6	26706.2	26762.0
7.5°	26193.3	26337.5	26468.3	26571.0	26603.5
10°	26030.0	26202.7	26277.3	26267.9	26244.7
12.5°	25810.8	25992.9	25969.7	25862.1	25880.9
15°	25526.5	25717.5	25522.0	25559.0	25577.8
17.5°	25190.8	25377.4	25148.8	25223.4	25228.3
20°	24799.4	24939.1	24761.8	24822.6	24822.6
22.5°	24328.5	24426.2	24351.7	24393.6	24403.0
25°	23754.9	23791.9	23875.8	23913.3	23894.6
27.5°	23205.0	23158.1	23321.5	23409.8	23362.9
30°	22593.9	22519.3	22710.4	22855.0	22799.2
32.5°	21894.4	21848.0	22067.2	22239.5	22206.9
35°	21232.5	21106.6	21349.0	21610.1	21549.4
37.5°	20449.1	20374.6	20649.5	20925.0	20892.4
40°	19684.5	19558.6	19871.1	20197.4	20164.8
42.5°	18864.1	18714.5	19055.1	19447.1	19409.5
45°	17908.0	17875.4	18178.5	18607.4	18574.8
47.5°	17059.9	16896.5	17320.6	17735.7	17773.2
50°	16033.7	15973.5	16360.5	16864.0	16901.0
52.5°	15031.7	14989.7	15395.0	15903.4	15968.5
55°	14033.6	13926.4	14397.4	14877.6	14915.2
57.5°	12966.4	12854.3	13334.6	13856.8	13935.8
60°	11823.6	11716.5	12243.2	12728.4	10122.1
62.5°	10681.4	10606.9	11157.2	7902.8	6369.2
65°	9455.3	9455.3	10005.1	5739.3	5758.1
67.5°	8308.6	8234.0	7460.0	5156.3	5156.3
70°	7077.5	7105.6	4298.4	4518.1	4522.5
72.5°	5842.0	5944.6	3711.5	3888.2	3897.6
75°	4671.6	4760.5	3091.0	3254.4	3268.2
77.5°	3431.6	2638.9	2484.9	2611.2	2615.7
80°	2410.3	1664.5	1902.4	2023.3	2009.5
82.5°	1407.8	1165.4	1394.0	1482.8	1477.9
85°	610.6	774.0	965.0	1044.5	988.2
87.5°	195.5	480.3	601.2	648.1	643.2
90°	0.0	261.1	429.0	507.9	499.0
92.5°	0.0	204.9	373.2	466.5	470.9
95°	13.8	135.3	308.0	415.1	415.1
97.5°	9.4	97.7	219.2	326.3	335.7
100°	9.4	79.0	144.6	233.0	237.9
102.5°	23.2	65.2	88.4	149.1	154.0
105°	23.2	51.3	74.5	74.5	70.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	28.1	37.5	51.3	37.5	4.4
115°	23.2	32.6	46.4	32.6	4.4
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
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°	23.2	46.4	65.2	42.0	13.8
110°	28.1	42.0	55.8	37.5	4.4



(END OF REPORT)