

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: P830800

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

Issue Date: 5/3/2024



**Test Information**

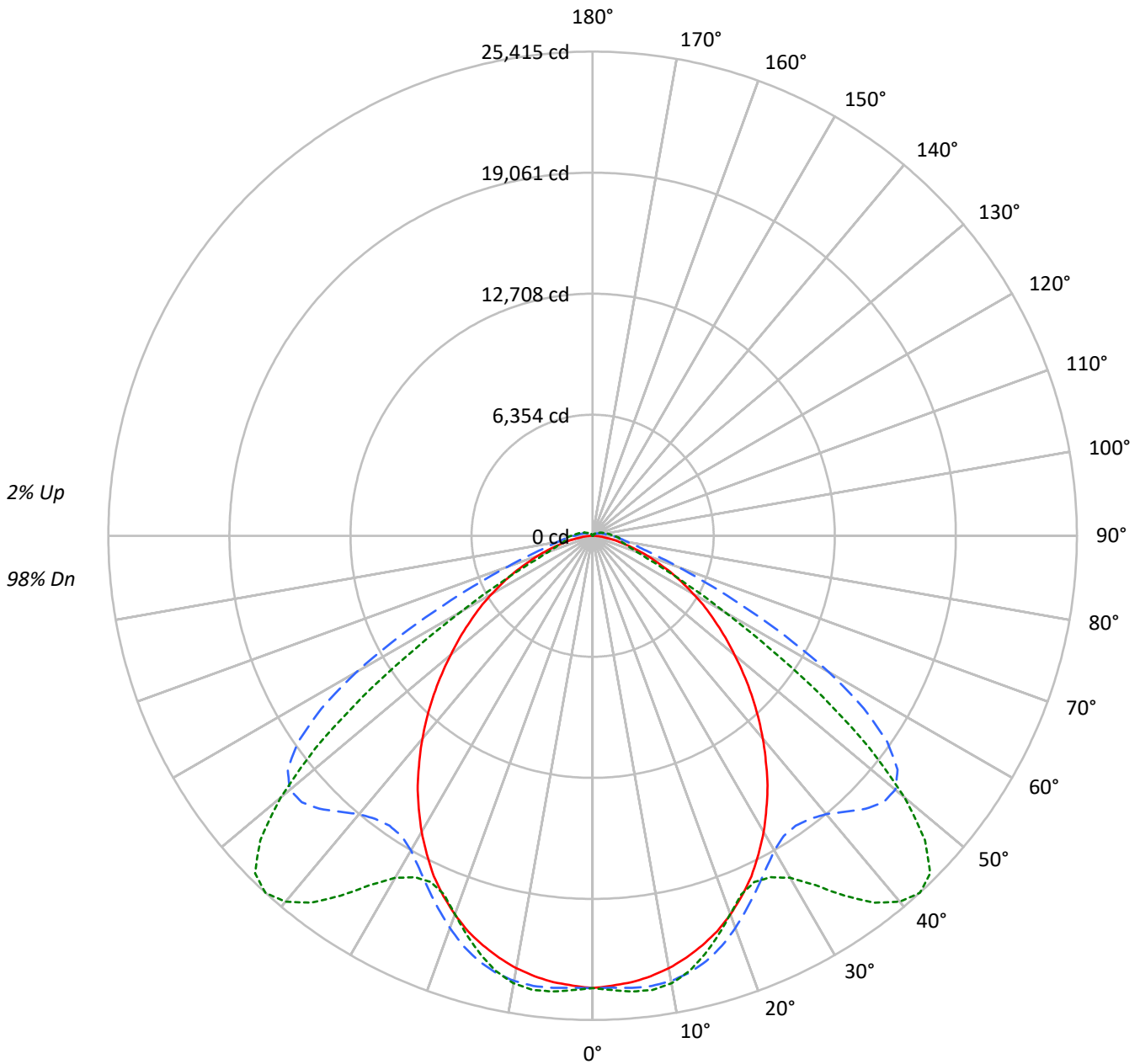
Test Method: LM-79-08  
Report Number: P830800  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-72SE-W-UNV-L735-CD  
Description: 72000 LUMEN OHBL SE LED LUMINAIRE WITH 70CRI, 3500K LEDS AND WIDE LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 71082.0 lumens  
Efficiency: N/A  
Efficacy: 171.8 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62  
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	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°	37544	37544	37544
5°	37195	37509	37812
10°	36728	37468	37697
15°	36011	36866	36332
20°	35030	35615	34398
25°	33717	34097	33551
30°	31970	32973	35923
35°	29976	33601	41807
40°	27664	36414	48037
45°	25246	41334	51279
50°	22724	45742	47337
55°	20354	45728	35821
60°	17941	38731	21640
65°	15392	26783	12905
70°	12506	17347	9119
75°	9514	12466	8187
80°	6829	10998	8747
85°	4634	12186	12326



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2268.6	3.2
10°-20°	6424.1	9.0
20°-30°	9400.6	13.2
30°-40°	12208.6	17.2
40°-50°	14908.2	21.0
50°-60°	13129.0	18.5
60°-70°	6841.6	9.6
70°-80°	2933.9	4.1
80°-90°	1409.0	2.0
90°-100°	662.0	0.9
100°-110°	411.5	0.6
110°-120°	243.3	0.3
120°-130°	132.2	0.2
130°-140°	66.4	0.1
140°-150°	31.9	0.0
150°-160°	11.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	18093.3	25.5
0°-40°	30301.9	42.6
0°-60°	58339.1	82.1
0°-90°	69523.6	97.8
90°-120°	1316.7	1.9
90°-150°	1547.2	2.2
90°-180°	1558.0	2.2
0°-180°	71082.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	23740	23740	23740	23740	23740	
5°	23520	23699	23827	24037	24012	###
15°	22255	22880	23100	22926	22741	6266
25°	19719	20774	20421	20037	20057	9049
35°	16006	17696	18582	21671	23059	9976
45°	11786	14828	20267	24539	25051	9087
55°	7847	12989	18874	16549	14710	7042
65°	4502	8999	8641	4804	4133	4454
75°	1813	4210	2776	1900	1803	1977
85°	384	1501	1414	1383	1398	428
90°	5	543	932	1065	1091	27
95°	10	318	743	871	896	8
105°	20	179	482	579	589	22
115°	31	102	297	364	374	32
125°	36	51	174	225	230	31
135°	31	31	82	138	143	24
145°	41	31	36	67	77	24
155°	41	41	31	31	31	13
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	23740.1	23740.1	23740.1	23740.1	23740.1
2.5°	23637.7	23740.1	23745.2	23888.6	23873.3
5°	23519.8	23699.1	23827.2	24037.2	24011.6
7.5°	23325.2	23606.9	23832.3	24062.8	24042.3
10°	23048.6	23432.8	23729.8	23919.4	23857.9
12.5°	22690.1	23197.2	23489.1	23530.1	23412.3
15°	22254.7	22879.6	23099.9	22925.7	22741.3
17.5°	21763.0	22495.5	22572.3	22193.3	21962.8
20°	21148.4	21983.3	21906.4	21384.0	21127.9
22.5°	20467.2	21419.9	21174.0	20626.0	20380.1
25°	19719.4	20774.5	20421.1	20036.9	20057.4
27.5°	18843.5	20042.1	19698.9	19873.0	20200.8
30°	17952.3	19273.8	19063.8	20077.9	20723.3
32.5°	16974.0	18485.0	18674.5	20677.2	21732.3
35°	16006.0	17696.2	18582.3	21670.8	23058.9
37.5°	14935.5	16897.2	18730.9	22818.1	24272.8
40°	13895.8	16118.7	19068.9	23847.7	25076.9
42.5°	12835.5	15422.1	19637.4	24457.2	25415.0
45°	11785.5	14828.0	20267.4	24539.1	25051.3
47.5°	10735.5	14326.0	20702.8	23888.6	23653.0
50°	9721.4	13880.4	20733.5	22326.4	21363.5
52.5°	8773.8	13470.6	20170.1	19837.2	18341.6
55°	7846.8	12989.2	18874.3	16548.9	14710.1
57.5°	7001.7	12323.3	16876.7	13014.8	11007.0
60°	6105.3	11421.9	14295.3	9521.6	7939.0
62.5°	5280.7	10300.2	11401.4	6627.8	5705.8
65°	4502.2	8999.2	8640.7	4804.4	4133.4
67.5°	3677.5	7652.1	6376.8	3503.4	3073.2
70°	3032.2	6402.4	4748.0	2724.9	2473.9
72.5°	2371.4	5214.1	3549.5	2212.7	2074.4
75°	1813.2	4210.2	2776.1	1900.2	1802.9
77.5°	1336.8	3329.2	2233.2	1680.0	1587.8
80°	937.3	2622.4	1869.5	1500.7	1464.9
82.5°	630.0	2028.3	1592.9	1429.0	1434.1
85°	384.1	1500.7	1413.6	1382.9	1398.3
87.5°	184.4	1065.4	1213.9	1260.0	1275.4
90°	5.1	542.9	932.2	1065.4	1091.0
92.5°	0.0	414.9	819.5	952.7	978.3
95°	10.2	317.6	742.7	870.7	896.3
97.5°	10.2	261.2	665.8	799.0	814.4
100°	15.4	225.4	594.1	722.2	737.6
102.5°	15.4	199.8	532.7	645.4	655.6
105°	20.5	179.3	481.5	578.8	589.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	30.7	122.9	338.0	409.8	420.0
115°	30.7	102.4	297.1	363.7	373.9
117.5°	35.9	92.2	261.2	322.7	327.8
120°	35.9	76.8	225.4	286.8	291.9
122.5°	35.9	61.5	199.8	256.1	261.2
125°	35.9	51.2	174.1	225.4	230.5
127.5°	30.7	35.9	148.5	199.8	204.9
130°	30.7	30.7	122.9	174.1	184.4
132.5°	30.7	30.7	102.4	153.7	163.9
135°	30.7	30.7	82.0	138.3	143.4
137.5°	30.7	30.7	66.6	117.8	128.0
140°	30.7	30.7	51.2	102.4	107.6
142.5°	35.9	30.7	46.1	87.1	92.2
145°	41.0	30.7	35.9	66.6	76.8
147.5°	41.0	35.9	35.9	56.3	61.5
150°	41.0	41.0	30.7	41.0	51.2
152.5°	41.0	41.0	30.7	30.7	41.0
155°	41.0	41.0	30.7	30.7	30.7
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°	25.6	158.8	430.2	517.3	527.6
110°	25.6	138.3	379.0	461.0	471.2



(END OF REPORT)