

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: P830776

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

Issue Date: 5/3/2024



**Test Information**

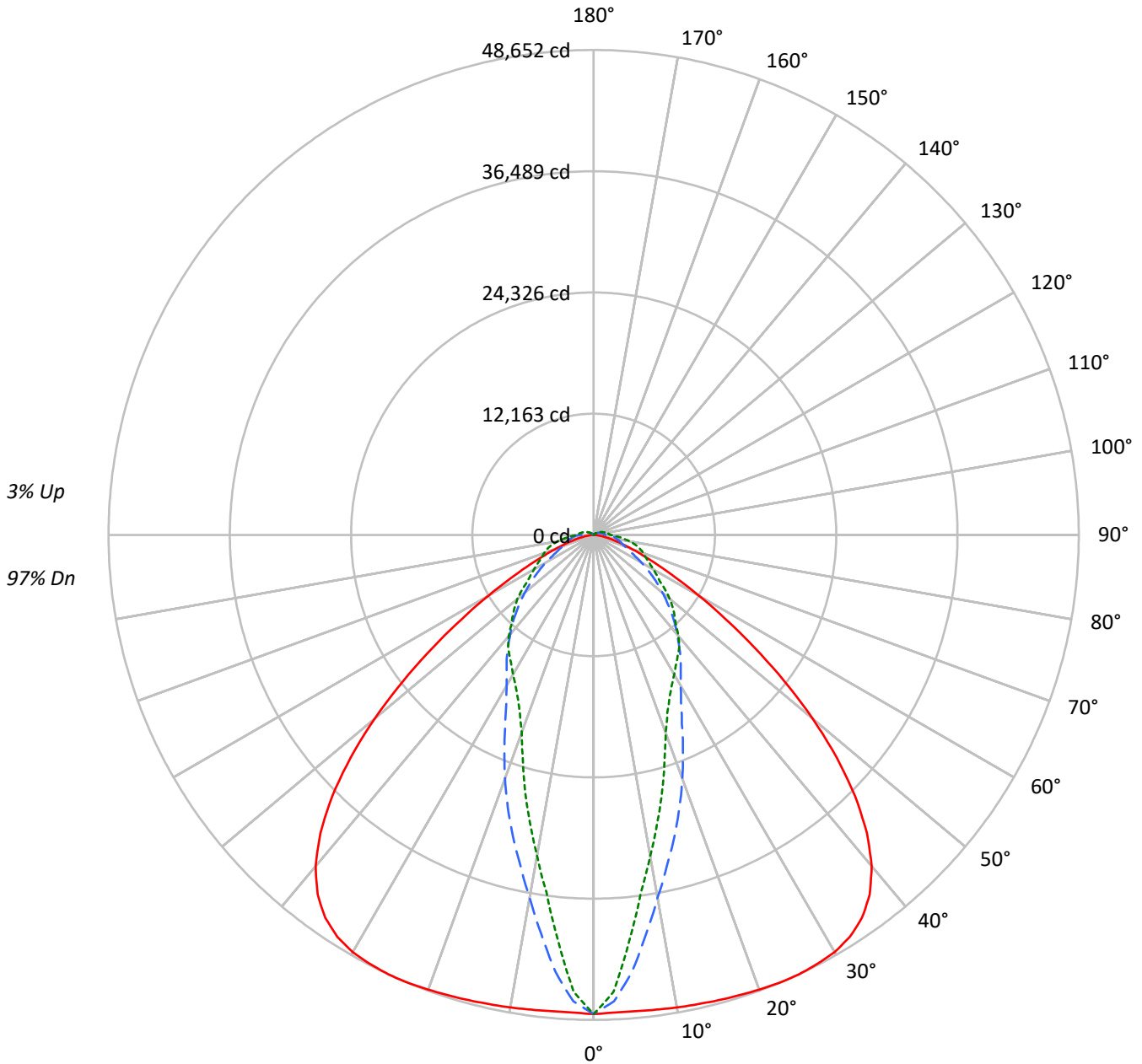
Test Method: LM-79-08  
Report Number: P830776  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-72SE-N-UNV-L735-CD  
Description: 72000 LUMEN OHBL SE LED LUMINAIRE WITH 70CRI, 3500K LEDS AND NARROW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 70934.0 lumens  
Efficiency: N/A  
Efficacy: 171.5 lumens/watt  
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78  
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				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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	99	97
1	109	104	100	97	106	102	98	95	97	94	91	92	90	88	88	86	85	85	85	85	82
2	100	93	86	81	97	90	85	80	86	82	78	83	79	75	79	76	73	73	73	73	71
3	92	83	75	69	90	81	74	69	78	72	67	74	70	65	72	67	64	64	64	64	62
4	85	74	66	60	83	73	66	60	70	64	59	67	62	57	65	60	56	56	56	56	54
5	79	67	59	53	77	66	59	53	64	57	52	62	56	51	59	54	50	50	50	50	48
6	74	62	53	47	72	60	53	47	58	52	46	56	50	46	55	49	45	45	45	45	43
7	69	56	48	43	67	55	48	42	54	47	42	52	46	41	50	45	41	41	41	41	39
8	65	52	44	39	63	51	44	39	50	43	38	48	42	38	47	41	37	37	37	37	35
9	61	48	41	35	59	47	40	35	46	40	35	45	39	35	44	38	34	34	34	34	32
10	57	45	37	33	56	44	37	32	43	37	32	42	36	32	41	35	32	32	32	32	30

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

	0°	45°	90°
0°	76008	76008	76008
5°	75853	69250	64398
10°	76709	58358	51670
15°	78207	49933	42437
20°	80404	42240	34347
25°	83185	34980	30116
30°	86061	30151	27998
35°	87852	27494	26696
40°	86348	24851	25350
45°	79437	22473	23493
50°	67020	19871	22075
55°	50925	17421	19671
60°	35688	14959	18864
65°	24006	12902	18508
70°	16394	12133	19474
75°	11377	12550	20896
80°	7831	13965	21660
85°	4581	17627	23023



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	4045.8	5.7
10°-20°	9517.4	13.4
20°-30°	11930.0	16.8
30°-40°	12659.1	17.8
40°-50°	11445.8	16.1
50°-60°	8299.0	11.7
60°-70°	5208.0	7.3
70°-80°	3446.5	4.9
80°-90°	1985.5	2.8
90°-100°	961.9	1.4
100°-110°	663.9	0.9
110°-120°	409.7	0.6
120°-130°	198.4	0.3
130°-140°	91.3	0.1
140°-150°	49.8	0.1
150°-160°	21.7	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	25493.2	35.9
0°-40°	38152.3	53.8
0°-60°	57897.2	81.6
0°-90°	68537.2	96.6
90°-120°	2035.6	2.9
90°-150°	2375.1	3.3
90°-180°	2397.0	3.4
0°-180°	70934.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	48062	48062	48062	48062	48062	
5°	47966	46735	43990	41950	40894	###
15°	48331	39393	31288	27825	26563	13706
25°	48652	30460	20950	18594	18004	22476
35°	46909	20250	15205	14729	14724	29161
45°	37083	12826	11019	11285	11477	28250
55°	19633	7950	7191	7799	8078	17739
65°	7022	4611	4163	5334	5928	7307
75°	2168	2484	2795	4341	4602	2417
85°	380	1029	2045	2845	2612	455
90°	0	430	1185	1670	1683	24
95°	18	302	1043	1418	1482	16
105°	37	201	759	1006	1034	37
115°	50	142	512	640	654	49
125°	55	73	261	329	325	48
135°	46	55	114	178	178	36
145°	55	60	69	105	101	33
155°	55	69	73	78	69	17
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	48061.6	48061.6	48061.6	48061.6	48061.6
2.5°	47960.9	47686.5	46831.1	46309.6	45870.5
5°	47965.5	46735.0	43990.5	41950.4	40893.7
7.5°	48034.1	45298.7	40354.0	37376.1	36214.3
10°	48139.3	43519.3	36959.9	33785.4	32701.3
12.5°	48217.1	41515.8	33972.9	30711.5	29522.2
15°	48331.4	39393.4	31287.8	27825.1	26562.6
17.5°	48436.7	37394.4	28634.8	25016.5	23612.2
20°	48541.9	35240.0	25981.7	22253.7	21096.4
22.5°	48642.5	32966.6	23392.7	20108.4	19317.0
25°	48651.6	30459.9	20950.0	18594.3	18004.2
27.5°	48532.7	27861.7	18969.4	17327.2	16961.3
30°	48326.9	25341.3	17432.4	16412.4	16151.7
32.5°	47814.6	22770.6	16243.1	15529.6	15378.6
35°	46908.9	20250.2	15204.8	14729.1	14724.5
37.5°	45481.7	18013.4	14079.5	13997.2	14097.8
40°	43373.0	16055.6	13013.7	13233.3	13233.3
42.5°	40559.8	14354.0	12048.6	12272.7	12213.2
45°	37083.4	12826.2	11019.4	11284.7	11476.8
47.5°	33053.5	11481.3	9967.3	10479.6	10744.9
50°	28671.4	10200.6	9006.7	9660.8	9962.7
52.5°	24078.8	9015.8	8069.0	8819.1	9061.6
55°	19632.6	7950.0	7190.7	7799.1	8078.1
57.5°	15607.3	6934.6	6330.8	6907.1	7483.5
60°	12144.6	6060.9	5521.1	6344.5	6920.8
62.5°	9276.6	5283.3	4761.8	5818.4	6394.8
65°	7021.5	4610.8	4162.6	5333.6	5928.2
67.5°	5292.4	4029.9	3696.0	4981.4	5562.3
70°	3975.0	3467.3	3320.9	4761.8	5283.3
72.5°	2936.7	2950.4	3023.6	4569.7	4967.6
75°	2168.2	2483.8	2794.9	4341.0	4601.7
77.5°	1550.7	2058.4	2589.0	4066.5	4158.0
80°	1074.9	1678.7	2374.0	3705.1	3627.4
82.5°	672.4	1344.8	2181.9	3307.2	3092.2
85°	379.7	1029.2	2044.7	2845.2	2611.9
87.5°	169.2	768.5	1788.5	2218.5	2072.1
90°	0.0	430.0	1184.7	1669.6	1683.3
92.5°	9.1	356.8	1093.2	1527.8	1573.5
95°	18.3	301.9	1042.9	1418.0	1482.1
97.5°	22.9	265.3	978.9	1317.4	1372.3
100°	27.4	237.9	901.1	1212.2	1257.9
102.5°	32.0	219.6	827.9	1102.4	1139.0
105°	36.6	201.3	759.3	1006.3	1033.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	45.7	155.5	571.8	722.7	745.6
115°	50.3	141.8	512.3	640.4	654.1
117.5°	54.9	123.5	448.3	562.6	567.2
120°	54.9	109.8	384.2	480.3	480.3
122.5°	54.9	91.5	320.2	398.0	393.4
125°	54.9	73.2	260.7	329.3	324.8
127.5°	50.3	59.5	210.4	274.5	269.9
130°	50.3	59.5	169.2	233.3	233.3
132.5°	45.7	54.9	137.2	201.3	201.3
135°	45.7	54.9	114.4	178.4	178.4
137.5°	45.7	59.5	96.1	155.5	155.5
140°	45.7	54.9	82.3	137.2	137.2
142.5°	50.3	54.9	73.2	118.9	118.9
145°	54.9	59.5	68.6	105.2	100.6
147.5°	54.9	64.0	68.6	91.5	86.9
150°	54.9	68.6	68.6	82.3	77.8
152.5°	54.9	68.6	68.6	77.8	73.2
155°	54.9	68.6	73.2	77.8	68.6
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°	36.6	187.5	695.3	901.1	933.1
110°	41.2	169.2	635.8	805.1	837.1



(END OF REPORT)