

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: P830782

Luminaire Tested: **OHBL-72SE-N-UNV-L850-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P830782  
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-L850-CD  
Description: 72000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 5000K LEDS AND NARROW LENS  
Light Source: -  
Ballast/Driver: -

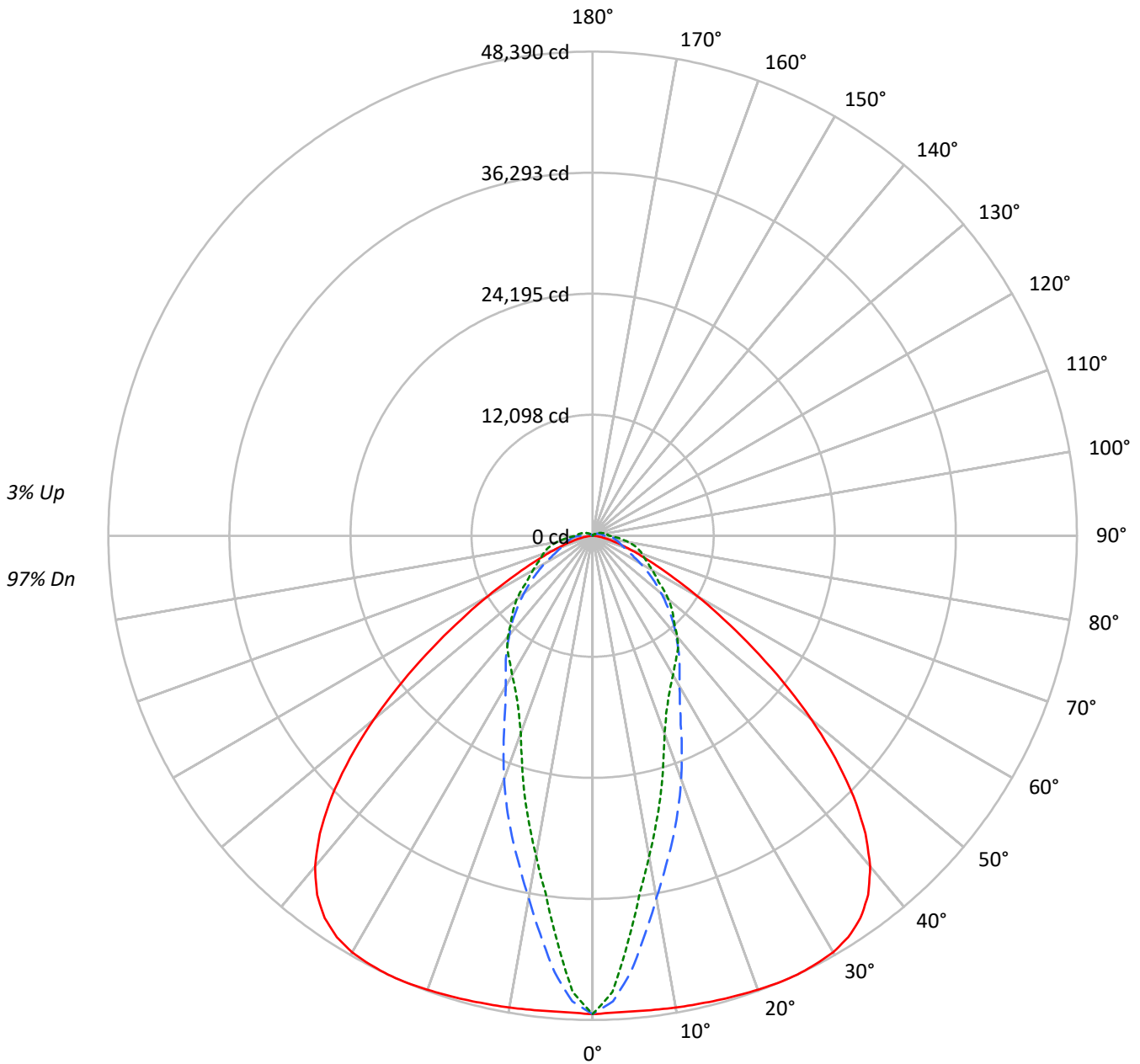
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 70552.0 lumens  
Efficiency: N/A  
Efficacy: 170.5 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				
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°	75599	75599	75599
5°	75445	68877	64051
10°	76296	58044	51392
15°	77786	49664	42208
20°	79971	42013	34162
25°	82737	34792	29954
30°	85597	29989	27847
35°	87378	27346	26553
40°	85883	24717	25213
45°	79009	22352	23366
50°	66659	19764	21956
55°	50651	17328	19565
60°	35496	14878	18763
65°	23876	12833	18408
70°	16306	12068	19369
75°	11315	12483	20783
80°	7790	13890	21543
85°	4556	17532	22899



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	4024.0	5.7
10°-20°	9466.2	13.4
20°-30°	11865.8	16.8
30°-40°	12590.9	17.8
40°-50°	11384.2	16.1
50°-60°	8254.3	11.7
60°-70°	5180.0	7.3
70°-80°	3427.9	4.9
80°-90°	1974.9	2.8
90°-100°	956.8	1.4
100°-110°	660.4	0.9
110°-120°	407.5	0.6
120°-130°	197.4	0.3
130°-140°	90.8	0.1
140°-150°	49.6	0.1
150°-160°	21.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	25356.0	35.9
0°-40°	37946.9	53.8
0°-60°	57585.4	81.6
0°-90°	68168.1	96.6
90°-120°	2024.6	2.9
90°-150°	2362.3	3.3
90°-180°	2384.0	3.4
0°-180°	70552.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	47803	47803	47803	47803	47803	
5°	47707	46483	43754	41724	40674	###
15°	48071	39181	31119	27675	26420	13633
25°	48390	30296	20837	18494	17907	22355
35°	46656	20141	15123	14650	14645	29004
45°	36884	12757	10960	11224	11415	28098
55°	19527	7907	7152	7757	8035	17643
65°	6984	4586	4140	5305	5896	7267
75°	2156	2470	2780	4318	4577	2404
85°	378	1024	2034	2830	2598	453
90°	0	428	1178	1661	1674	24
95°	18	300	1037	1410	1474	16
105°	36	200	755	1001	1028	37
115°	50	141	510	637	651	49
125°	55	73	259	328	323	47
135°	46	55	114	177	177	36
145°	55	59	68	105	100	33
155°	55	68	73	77	68	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°	47802.7	47802.7	47802.7	47802.7	47802.7
2.5°	47702.7	47429.7	46578.9	46060.2	45623.5
5°	47707.2	46483.4	43753.6	41724.5	40673.5
7.5°	47775.4	45054.8	40136.7	37174.9	36019.3
10°	47880.1	43285.0	36760.8	33603.4	32525.2
12.5°	47957.4	41292.3	33789.9	30546.1	29363.2
15°	48071.2	39181.2	31119.3	27675.3	26419.6
17.5°	48175.8	37193.1	28480.6	24881.8	23485.1
20°	48280.5	35050.2	25841.8	22133.8	20982.8
22.5°	48380.5	32789.0	23266.7	20000.1	19213.0
25°	48389.6	30295.8	20837.2	18494.2	17907.3
27.5°	48271.4	27711.7	18867.2	17233.9	16870.0
30°	48066.6	25204.8	17338.6	16324.0	16064.7
32.5°	47557.1	22648.0	16155.7	15445.9	15295.8
35°	46656.2	20141.1	15122.9	14649.7	14645.2
37.5°	45236.8	17916.4	14003.7	13921.8	14021.9
40°	43139.4	15969.1	12943.6	13162.0	13162.0
42.5°	40341.4	14276.7	11983.7	12206.6	12147.5
45°	36883.7	12757.1	10960.0	11223.9	11415.0
47.5°	32875.5	11419.5	9913.6	10423.2	10687.0
50°	28516.9	10145.6	8958.2	9608.8	9909.0
52.5°	23949.1	8967.3	8025.5	8771.6	9012.8
55°	19526.9	7907.2	7152.0	7757.1	8034.6
57.5°	15523.3	6897.2	6296.7	6869.9	7443.2
60°	12079.2	6028.2	5491.4	6310.3	6883.6
62.5°	9226.6	5254.8	4736.1	5787.1	6360.4
65°	6983.6	4586.0	4140.1	5304.8	5896.3
67.5°	5263.9	4008.2	3676.1	4954.5	5532.3
70°	3953.6	3448.6	3303.0	4736.1	5254.8
72.5°	2920.8	2934.5	3007.3	4545.1	4940.9
75°	2156.5	2470.4	2779.8	4317.6	4576.9
77.5°	1542.3	2047.3	2575.1	4044.6	4135.6
80°	1069.2	1669.7	2361.2	3685.2	3607.8
82.5°	668.8	1337.6	2170.2	3289.4	3075.5
85°	377.6	1023.7	2033.7	2829.9	2597.8
87.5°	168.3	764.3	1778.9	2206.6	2061.0
90°	0.0	427.7	1178.3	1660.6	1674.3
92.5°	9.1	354.9	1087.4	1519.6	1565.1
95°	18.2	300.3	1037.3	1410.4	1474.1
97.5°	22.7	263.9	973.6	1310.3	1364.9
100°	27.3	236.6	896.3	1205.6	1251.1
102.5°	31.8	218.4	823.5	1096.5	1132.9
105°	36.4	200.2	755.2	1000.9	1028.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	45.5	154.7	568.7	718.8	741.6
115°	50.0	141.0	509.6	636.9	650.6
117.5°	54.6	122.8	445.9	559.6	564.2
120°	54.6	109.2	382.2	477.7	477.7
122.5°	54.6	91.0	318.5	395.8	391.3
125°	54.6	72.8	259.3	327.6	323.0
127.5°	50.0	59.1	209.3	273.0	268.4
130°	50.0	59.1	168.3	232.0	232.0
132.5°	45.5	54.6	136.5	200.2	200.2
135°	45.5	54.6	113.7	177.4	177.4
137.5°	45.5	59.1	95.5	154.7	154.7
140°	45.5	54.6	81.9	136.5	136.5
142.5°	50.0	54.6	72.8	118.3	118.3
145°	54.6	59.1	68.2	104.6	100.1
147.5°	54.6	63.7	68.2	91.0	86.4
150°	54.6	68.2	68.2	81.9	77.3
152.5°	54.6	68.2	68.2	77.3	72.8
155°	54.6	68.2	72.8	77.3	68.2
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°	36.4	186.5	691.5	896.3	928.1
110°	40.9	168.3	632.4	800.7	832.6



(END OF REPORT)