

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: P830805

Luminaire Tested: **OHBL-72SE-W-UNV-L840-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P830805  
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-L840-CD  
Description: 72000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND WIDE LENS  
Light Source: -  
Ballast/Driver: -

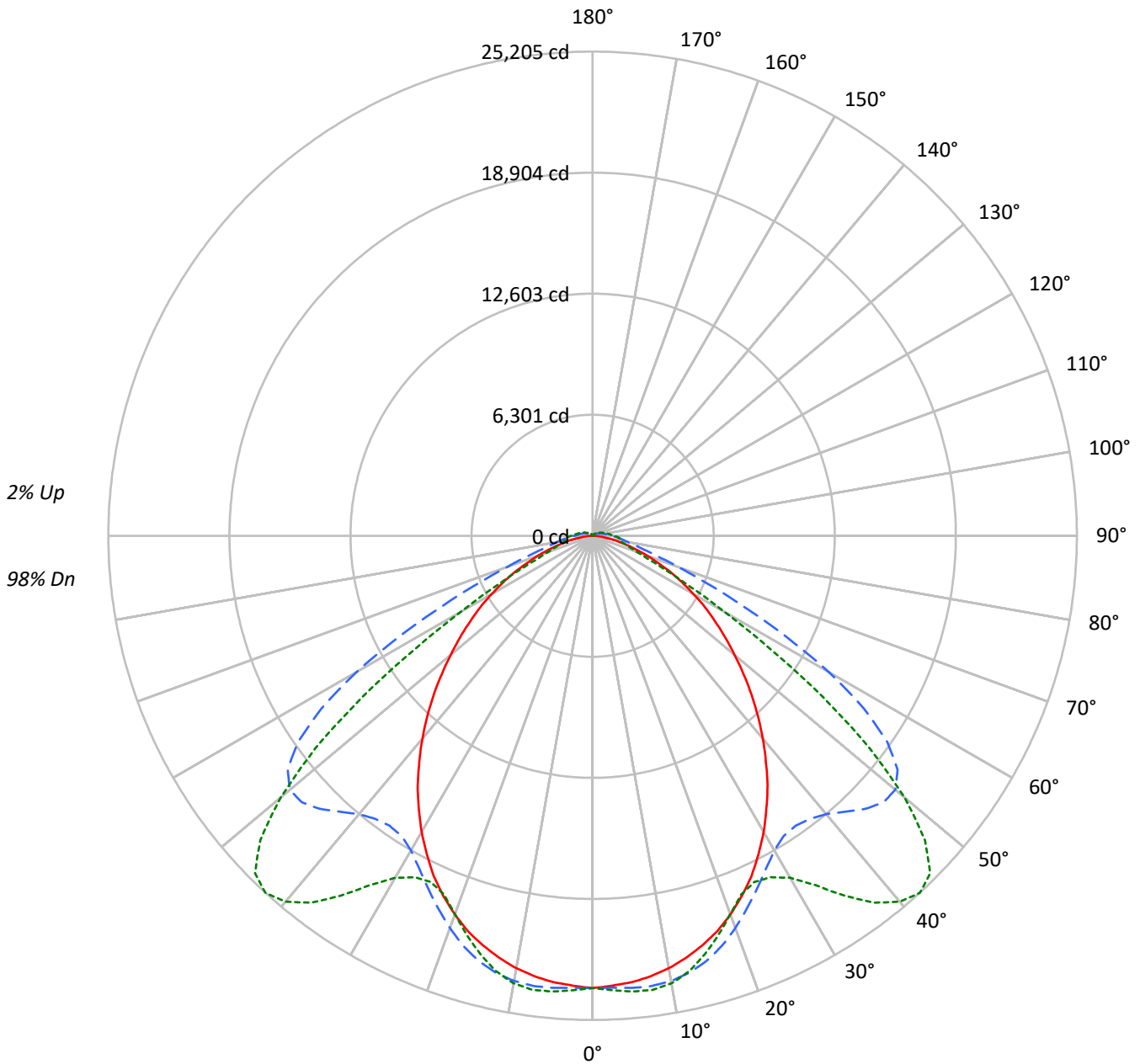
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 70495.0 lumens  
Efficiency: N/A  
Efficacy: 170.4 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°	37234	37234	37234
5°	36887	37199	37500
10°	36424	37159	37386
15°	35714	36561	36032
20°	34741	35321	34114
25°	33438	33816	33274
30°	31706	32700	35626
35°	29729	33324	41462
40°	27436	36113	47641
45°	25037	40992	50856
50°	22536	45364	46946
55°	20186	45350	35526
60°	17793	38411	21461
65°	15265	26561	12798
70°	12402	17204	9044
75°	9435	12363	8119
80°	6773	10907	8675
85°	4597	12086	12223



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2249.9	3.2
10°-20°	6371.0	9.0
20°-30°	9322.9	13.2
30°-40°	12107.8	17.2
40°-50°	14785.1	21.0
50°-60°	13020.6	18.5
60°-70°	6785.1	9.6
70°-80°	2909.7	4.1
80°-90°	1397.4	2.0
90°-100°	656.5	0.9
100°-110°	408.0	0.6
110°-120°	241.3	0.3
120°-130°	131.1	0.2
130°-140°	65.8	0.1
140°-150°	31.7	0.0
150°-160°	11.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	17943.9	25.5
0°-40°	30051.6	42.6
0°-60°	57857.4	82.1
0°-90°	68949.5	97.8
90°-120°	1305.8	1.9
90°-150°	1534.4	2.2
90°-180°	1545.0	2.2
0°-180°	70495.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	23544	23544	23544	23544	23544	
5°	23326	23503	23630	23839	23813	###
15°	22071	22691	22909	22736	22554	6215
25°	19556	20603	20252	19872	19892	8975
35°	15874	17550	18429	21492	22868	9894
45°	11688	14706	20100	24336	24844	9012
55°	7782	12882	18718	16412	14589	6984
65°	4465	8925	8569	4765	4099	4417
75°	1798	4175	2753	1884	1788	1961
85°	381	1488	1402	1372	1387	425
90°	5	538	924	1057	1082	26
95°	10	315	736	864	889	8
105°	20	178	478	574	584	21
115°	30	102	295	361	371	31
125°	36	51	173	224	229	30
135°	30	30	81	137	142	24
145°	41	30	36	66	76	24
155°	41	41	30	30	30	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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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	23544.0	23544.0	23544.0	23544.0	23544.0
2.5°	23442.5	23544.0	23549.1	23691.4	23676.1
5°	23325.6	23503.4	23630.4	23838.7	23813.3
7.5°	23132.6	23412.0	23635.5	23864.1	23843.7
10°	22858.3	23239.3	23533.9	23721.8	23660.9
12.5°	22502.7	23005.6	23295.1	23335.8	23218.9
15°	22071.0	22690.7	22909.1	22736.4	22553.5
17.5°	21583.3	22309.7	22385.9	22010.0	21781.4
20°	20973.8	21801.7	21725.5	21207.4	20953.4
22.5°	20298.2	21243.0	20999.2	20455.6	20211.8
25°	19556.5	20602.9	20252.4	19871.5	19891.8
27.5°	18687.9	19876.6	19536.2	19708.9	20034.0
30°	17804.1	19114.6	18906.3	19912.1	20552.1
32.5°	16833.9	18332.4	18520.3	20506.4	21552.8
35°	15873.8	17550.1	18428.9	21491.9	22868.5
37.5°	14812.2	16757.7	18576.2	22629.7	24072.3
40°	13781.0	15985.6	18911.4	23650.7	24869.8
42.5°	12729.5	15294.7	19475.3	24255.2	25205.1
45°	11688.2	14705.5	20100.1	24336.5	24844.4
47.5°	10646.9	14207.7	20531.8	23691.4	23457.7
50°	9641.1	13765.8	20562.3	22142.1	21187.1
52.5°	8701.4	13359.4	20003.5	19673.4	18190.1
55°	7782.0	12881.9	18718.4	16412.3	14588.7
57.5°	6943.8	12221.6	16737.4	12907.3	10916.1
60°	6054.9	11327.6	14177.2	9443.0	7873.4
62.5°	5237.1	10215.1	11307.2	6573.0	5658.7
65°	4465.0	8924.9	8569.3	4764.7	4099.3
67.5°	3647.2	7589.0	6324.1	3474.5	3047.8
70°	3007.1	6349.5	4708.8	2702.4	2453.5
72.5°	2351.9	5171.1	3520.2	2194.4	2057.2
75°	1798.2	4175.4	2753.2	1884.5	1788.0
77.5°	1325.8	3301.8	2214.7	1666.1	1574.7
80°	929.6	2600.8	1854.1	1488.3	1452.8
82.5°	624.8	2011.5	1579.8	1417.2	1422.3
85°	381.0	1488.3	1402.0	1371.5	1386.7
87.5°	182.9	1056.6	1203.9	1249.6	1264.8
90°	5.1	538.4	924.5	1056.6	1082.0
92.5°	0.0	411.4	812.7	944.8	970.2
95°	10.2	314.9	736.5	863.5	888.9
97.5°	10.2	259.1	660.4	792.4	807.7
100°	15.2	223.5	589.2	716.2	731.5
102.5°	15.2	198.1	528.3	640.0	650.2
105°	20.3	177.8	477.5	574.0	584.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	30.5	121.9	335.3	406.4	416.5
115°	30.5	101.6	294.6	360.7	370.8
117.5°	35.6	91.4	259.1	320.0	325.1
120°	35.6	76.2	223.5	284.5	289.5
122.5°	35.6	61.0	198.1	254.0	259.1
125°	35.6	50.8	172.7	223.5	228.6
127.5°	30.5	35.6	147.3	198.1	203.2
130°	30.5	30.5	121.9	172.7	182.9
132.5°	30.5	30.5	101.6	152.4	162.5
135°	30.5	30.5	81.3	137.1	142.2
137.5°	30.5	30.5	66.0	116.8	127.0
140°	30.5	30.5	50.8	101.6	106.7
142.5°	35.6	30.5	45.7	86.4	91.4
145°	40.6	30.5	35.6	66.0	76.2
147.5°	40.6	35.6	35.6	55.9	61.0
150°	40.6	40.6	30.5	40.6	50.8
152.5°	40.6	40.6	30.5	30.5	40.6
155°	40.6	40.6	30.5	30.5	30.5
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°	25.4	157.5	426.7	513.0	523.2
110°	25.4	137.1	375.9	457.2	467.3



(END OF REPORT)