

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: P830785

Luminaire Tested: **OHBL-72SE-N-UNV-L940-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P830785  
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-L940-CD  
Description: 72000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 4000K LEDS AND NARROW LENS  
Light Source: -  
Ballast/Driver: -

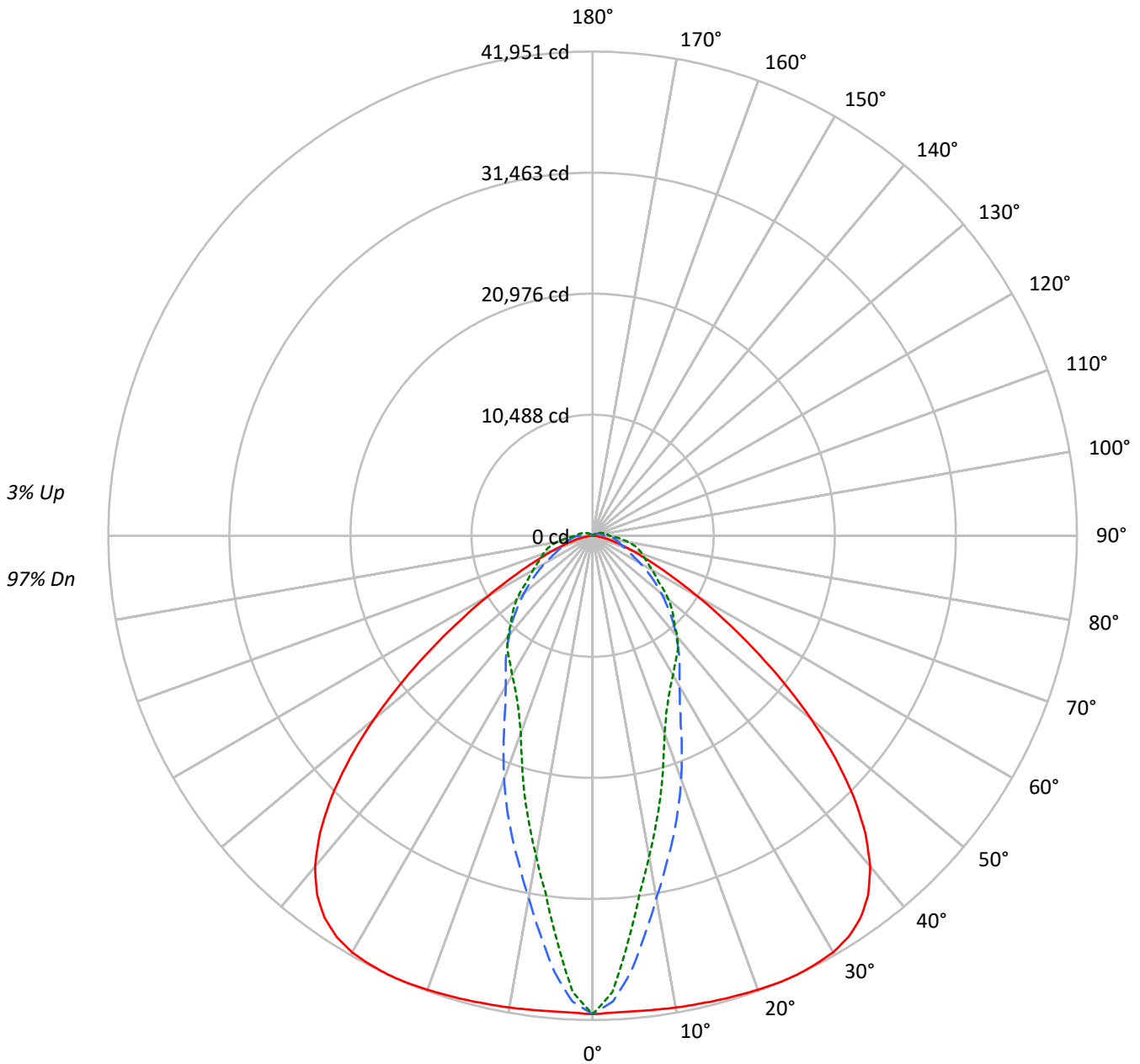
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 61164.0 lumens  
Efficiency: N/A  
Efficacy: 147.8 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									
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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	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	82																	
2	100	93	86	81	97	90	85	80	86	82	78	83	79	75	79	76	73	73	73	71																	
3	92	83	75	69	90	81	74	69	78	72	67	74	70	65	72	67	64	64	64	62																	
4	85	74	66	60	83	73	66	60	70	64	59	67	62	57	65	60	56	56	56	54																	
5	79	67	59	53	77	66	59	53	64	57	52	62	56	51	59	54	50	50	50	48																	
6	74	62	53	47	72	60	53	47	58	52	46	56	50	46	55	49	45	45	45	43																	
7	69	56	48	43	67	55	48	42	54	47	42	52	46	41	50	45	41	41	41	39																	
8	65	52	44	39	63	51	44	39	50	43	38	48	42	38	47	41	37	37	37	35																	
9	61	48	41	35	59	47	40	35	46	40	35	45	39	35	44	38	34	34	34	32																	
10	57	45	37	33	56	44	37	32	43	37	32	42	36	32	41	35	32	32	32	30																	

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

	0°	45°	90°
0°	65539	65539	65539
5°	65406	59712	55528
10°	66144	50320	44554
15°	67436	43056	36592
20°	69330	36422	29616
25°	71728	30162	25968
30°	74207	25998	24142
35°	75751	23707	23019
40°	74455	21428	21858
45°	68496	19378	20257
50°	57789	17134	19035
55°	43911	15022	16962
60°	30772	12898	16266
65°	20699	11125	15959
70°	14136	10462	16792
75°	9810	10822	18018
80°	6753	12042	18677
85°	3950	15199	19851



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	3488.5	5.7
10°-20°	8206.6	13.4
20°-30°	10286.9	16.8
30°-40°	10915.5	17.8
40°-50°	9869.4	16.1
50°-60°	7155.9	11.7
60°-70°	4490.7	7.3
70°-80°	2971.8	4.9
80°-90°	1712.1	2.8
90°-100°	829.5	1.4
100°-110°	572.5	0.9
110°-120°	353.3	0.6
120°-130°	171.1	0.3
130°-140°	78.7	0.1
140°-150°	43.0	0.1
150°-160°	18.7	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	21982.0	35.9
0°-40°	32897.5	53.8
0°-60°	49922.8	81.6
0°-90°	59097.3	96.6
90°-120°	1755.2	2.9
90°-150°	2048.0	3.3
90°-180°	2067.0	3.4
0°-180°	61164.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	41442	41442	41442	41442	41442	
5°	41359	40298	37932	36172	35261	###
15°	41675	33968	26978	23993	22904	11819
25°	41951	26264	18064	16033	15524	19381
35°	40448	17461	13111	12700	12696	25144
45°	31976	11060	9502	9730	9896	24359
55°	16929	6855	6200	6725	6966	15296
65°	6054	3976	3589	4599	5112	6300
75°	1870	2142	2410	3743	3968	2084
85°	327	887	1763	2453	2252	392
90°	0	371	1022	1440	1452	21
95°	16	260	899	1223	1278	14
105°	32	174	655	868	891	32
115°	43	122	442	552	564	42
125°	47	63	225	284	280	41
135°	39	47	99	154	154	31
145°	47	51	59	91	87	28
155°	47	59	63	67	59	15
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-N-UNV-L940-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	41441.9	41441.9	41441.9	41441.9	41441.9
2.5°	41355.1	41118.4	40380.9	39931.2	39552.6
5°	41359.0	40298.0	37931.5	36172.4	35261.3
7.5°	41418.2	39059.6	34795.9	32228.2	31226.4
10°	41508.9	37525.3	31869.3	29132.0	28197.2
12.5°	41576.0	35797.7	29293.7	26481.5	25456.0
15°	41674.6	33967.6	26978.4	23992.7	22904.1
17.5°	41765.3	32244.0	24690.8	21570.9	20360.0
20°	41856.0	30386.2	22403.1	19188.6	18190.7
22.5°	41942.8	28426.0	20170.7	17338.8	16656.4
25°	41950.7	26264.5	18064.5	16033.2	15524.4
27.5°	41848.1	24024.2	16356.7	14940.7	14625.2
30°	41670.6	21851.0	15031.4	14151.8	13927.0
32.5°	41228.9	19634.3	14005.9	13390.6	13260.5
35°	40447.9	17461.0	13110.6	12700.4	12696.4
37.5°	39217.3	15532.3	12140.3	12069.3	12156.1
40°	37399.1	13844.2	11221.3	11410.6	11410.6
42.5°	34973.4	12376.9	10389.1	10582.3	10531.1
45°	31975.8	11059.6	9501.6	9730.4	9896.0
47.5°	28500.9	9900.0	8594.4	9036.2	9265.0
50°	24722.3	8795.6	7766.2	8330.2	8590.5
52.5°	20762.4	7774.0	6957.6	7604.4	7813.5
55°	16928.6	6855.0	6200.3	6724.9	6965.5
57.5°	13457.7	5979.4	5458.8	5955.8	6452.7
60°	10471.9	5226.1	4760.7	5470.6	5967.6
62.5°	7998.9	4555.6	4105.9	5017.0	5514.0
65°	6054.4	3975.8	3589.2	4599.0	5111.7
67.5°	4563.5	3474.9	3186.9	4295.3	4796.2
70°	3427.5	2989.7	2863.5	4105.9	4555.6
72.5°	2532.2	2544.0	2607.1	3940.3	4283.4
75°	1869.6	2141.7	2409.9	3743.1	3967.9
77.5°	1337.1	1774.9	2232.4	3506.4	3585.3
80°	926.9	1447.5	2047.0	3194.8	3127.8
82.5°	579.8	1159.6	1881.4	2851.7	2666.3
85°	327.4	887.4	1763.1	2453.3	2252.1
87.5°	145.9	662.6	1542.2	1912.9	1786.7
90°	0.0	370.8	1021.6	1439.6	1451.5
92.5°	7.9	307.6	942.7	1317.4	1356.8
95°	15.8	260.3	899.3	1222.7	1277.9
97.5°	19.7	228.8	844.1	1135.9	1183.3
100°	23.7	205.1	777.0	1045.2	1084.7
102.5°	27.6	189.3	713.9	950.6	982.1
105°	31.6	173.5	654.7	867.7	891.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	39.4	134.1	493.0	623.2	642.9
115°	43.4	122.3	441.8	552.2	564.0
117.5°	47.3	106.5	386.5	485.1	489.1
120°	47.3	94.7	331.3	414.1	414.1
122.5°	47.3	78.9	276.1	343.1	339.2
125°	47.3	63.1	224.8	284.0	280.0
127.5°	43.4	51.3	181.4	236.7	232.7
130°	43.4	51.3	145.9	201.2	201.2
132.5°	39.4	47.3	118.3	173.5	173.5
135°	39.4	47.3	98.6	153.8	153.8
137.5°	39.4	51.3	82.8	134.1	134.1
140°	39.4	47.3	71.0	118.3	118.3
142.5°	43.4	47.3	63.1	102.5	102.5
145°	47.3	51.3	59.2	90.7	86.8
147.5°	47.3	55.2	59.2	78.9	74.9
150°	47.3	59.2	59.2	71.0	67.1
152.5°	47.3	59.2	59.2	67.1	63.1
155°	47.3	59.2	63.1	67.1	59.2
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°	31.6	161.7	599.5	777.0	804.6
110°	35.5	145.9	548.2	694.2	721.8



(END OF REPORT)