

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: P830769

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

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P830769  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-72SE-MFL-UNV-L840-CD  
Description: 72000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND MEDIUM FROSTED LENS  
Light Source: -  
Ballast/Driver: -

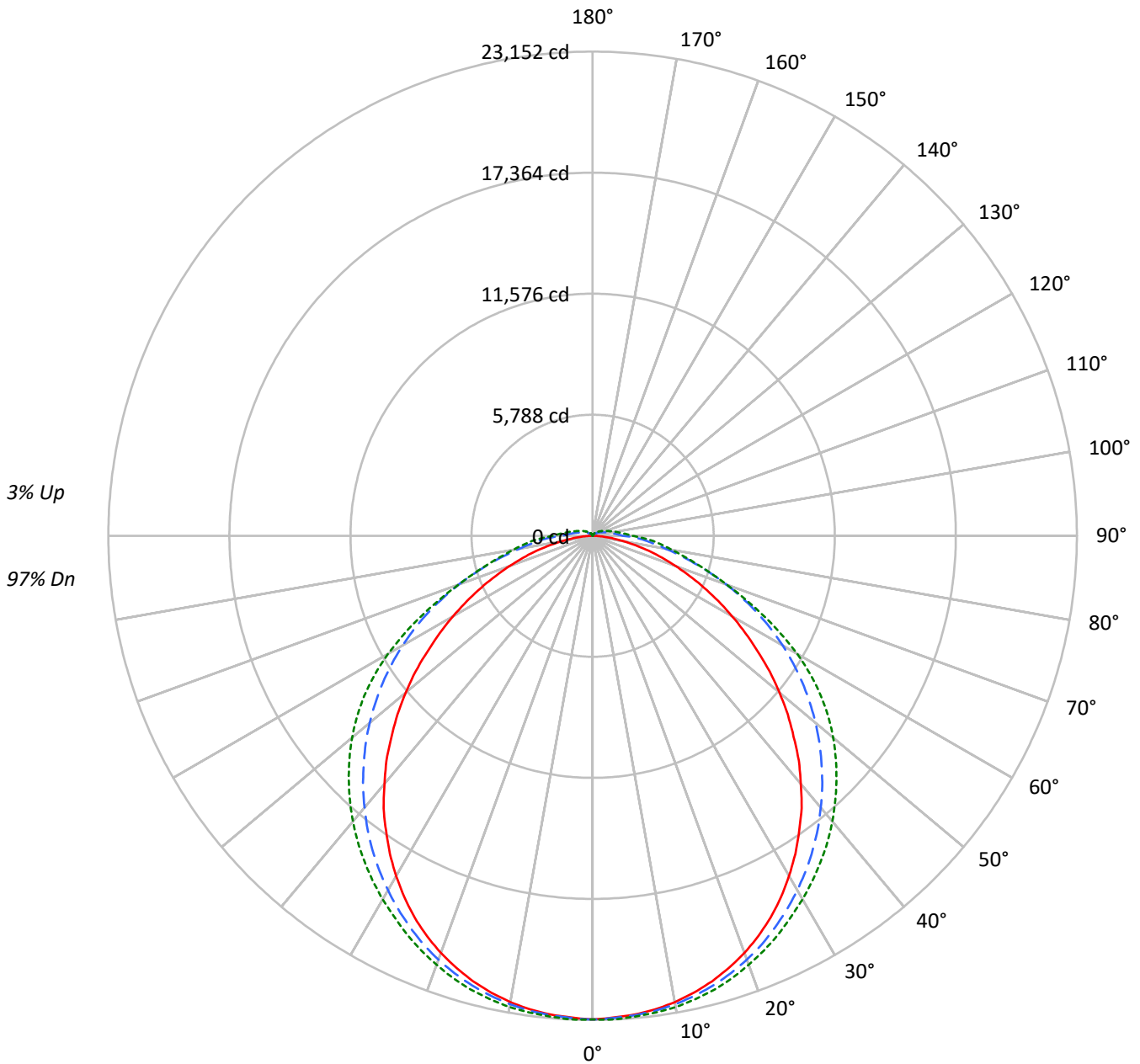
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 69223.0 lumens  
Efficiency: N/A  
Efficacy: 167.3 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38  
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

TEST NUMBER: P830769

CATALOG NUMBER: OHBL-72SE-MFL-UNV-L840-CD

### Luminous Intensity Polar Plot





TEST NUMBER: P830769

CATALOG NUMBER: OHBL-72SE-MFL-UNV-L840-CD

**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	107	102	98	94	104	100	96	92	95	91	88	90	88	85	86	84	82	82	82	82	80	
2	98	89	82	76	95	87	80	75	83	77	73	79	74	71	75	72	68	68	68	68	66	
3	89	78	70	63	86	76	69	62	73	66	61	70	64	59	67	62	58	58	58	58	56	
4	81	69	60	53	79	68	59	53	65	57	52	62	56	51	59	54	50	50	50	50	47	
5	75	62	53	46	72	60	52	46	58	50	45	56	49	44	53	48	43	43	43	43	41	
6	69	56	47	40	67	54	46	40	52	45	39	50	44	39	48	43	38	38	38	38	36	
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	44	38	34	34	34	34	32	
8	60	46	37	31	58	45	37	31	43	36	31	42	35	31	41	35	30	30	30	30	28	
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	37	32	27	27	27	27	25	
10	52	39	31	26	51	38	31	26	37	30	25	36	29	25	35	29	25	25	25	25	23	

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

	0°	45°	90°
0°	36579	36579	36579
5°	36345	36233	36343
10°	36090	35913	36153
15°	35687	35531	35903
20°	35152	35064	35537
25°	34437	34480	35167
30°	33447	33847	34795
35°	32249	33175	34474
40°	30811	32396	34158
45°	29114	31551	33754
50°	27258	30697	33264
55°	24976	29651	32435
60°	22639	28419	30782
65°	20089	26845	28065
70°	17323	24839	25122
75°	14524	22521	23134
80°	11012	20846	22951
85°	6967	21667	25647



TEST NUMBER: P830769

CATALOG NUMBER: OHBL-72SE-MFL-UNV-L840-CD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2191.6	3.2
10°-20°	6287.5	9.1
20°-30°	9508.8	13.7
30°-40°	11415.4	16.5
40°-50°	11790.3	17.0
50°-60°	10607.5	15.3
60°-70°	7990.5	11.5
70°-80°	4824.9	7.0
80°-90°	2359.8	3.4
90°-100°	993.3	1.4
100°-110°	567.0	0.8
110°-120°	332.8	0.5
120°-130°	188.2	0.3
130°-140°	99.1	0.1
140°-150°	48.2	0.1
150°-160°	17.9	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	17988.0	26.0
0°-40°	29403.4	42.5
0°-60°	51801.2	74.8
0°-90°	66976.4	96.8
90°-120°	1893.1	2.7
90°-150°	2228.6	3.2
90°-180°	2247.0	3.2
0°-180°	69223.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	23130	23130	23130	23130	23130	
5°	22982	23045	23016	23107	23079	###
15°	22054	22162	22264	22450	22473	6218
25°	20141	20362	20650	20973	21024	9264
35°	17220	17622	18346	18901	19014	10765
45°	13591	14276	15471	16314	16490	10493
55°	9629	10625	12238	13161	13320	8633
65°	5876	7076	8661	9091	8989	5838
75°	2768	3974	5015	5146	5095	2953
85°	577	1523	2513	2859	2910	667
90°	0	594	1438	1811	1885	36
95°	28	402	1076	1370	1421	24
105°	40	232	623	815	849	40
115°	45	130	385	515	538	46
125°	45	62	232	334	351	41
135°	40	51	119	204	226	31
145°	57	51	57	102	119	34
155°	57	62	57	51	57	17
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P830769

CATALOG NUMBER: OHBL-72SE-MFL-UNV-L840-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	23129.6	23129.6	23129.6	23129.6	23129.6
2.5°	23061.7	23118.3	23084.3	23157.9	23152.2
5°	22982.4	23044.7	23016.4	23107.0	23078.7
7.5°	22846.6	22914.5	22908.8	23010.7	22999.4
10°	22648.4	22722.0	22744.7	22880.5	22880.5
12.5°	22376.7	22473.0	22529.6	22693.7	22699.4
15°	22054.1	22161.6	22263.5	22450.3	22473.0
17.5°	21663.5	21799.3	21940.9	22156.0	22184.3
20°	21222.0	21374.8	21567.3	21793.7	21827.6
22.5°	20712.5	20893.6	21142.7	21408.8	21448.4
25°	20140.8	20361.5	20650.2	20972.9	21023.8
27.5°	19489.8	19744.5	20135.1	20497.4	20542.7
30°	18782.2	19082.2	19569.0	19999.2	20072.8
32.5°	18035.0	18380.3	18980.3	19461.5	19563.4
35°	17219.8	17621.7	18346.3	18901.1	19014.3
37.5°	16416.0	16857.6	17678.4	18312.4	18448.2
40°	15476.3	16025.4	16965.1	17667.0	17831.2
42.5°	14593.3	15187.6	16251.9	17016.1	17174.6
45°	13591.3	14276.3	15470.7	16314.1	16489.6
47.5°	12651.7	13393.2	14717.8	15589.6	15770.7
50°	11661.0	12476.2	13914.0	14825.4	15012.2
52.5°	10670.4	11547.8	13081.9	14027.2	14202.7
55°	9628.8	10625.1	12238.4	13161.1	13319.6
57.5°	8660.9	9713.8	11372.3	12249.7	12346.0
60°	7704.2	8796.7	10489.3	11259.1	11293.1
62.5°	6770.2	7919.3	9583.6	10194.9	10149.6
65°	5875.8	7075.9	8660.9	9091.1	8989.2
67.5°	5015.4	6255.1	7715.5	7992.9	7857.0
70°	4200.2	5456.9	6798.5	6940.0	6815.5
72.5°	3481.3	4698.4	5870.1	5989.0	5898.4
75°	2768.1	3973.8	5015.4	5145.6	5094.6
77.5°	2100.1	3271.9	4228.5	4398.4	4409.7
80°	1511.4	2632.2	3543.6	3809.6	3843.6
82.5°	996.3	2043.5	2971.9	3311.5	3362.5
85°	577.4	1522.7	2513.3	2858.7	2909.6
87.5°	249.1	1098.2	2020.9	2332.2	2394.5
90°	0.0	594.4	1437.8	1811.4	1885.0
92.5°	17.0	492.5	1234.0	1573.7	1635.9
95°	28.3	401.9	1075.5	1369.9	1420.8
97.5°	34.0	339.6	934.0	1194.4	1245.4
100°	34.0	294.4	809.5	1047.2	1092.5
102.5°	34.0	260.4	707.6	917.0	956.7
105°	39.6	232.1	622.7	815.1	849.1



TEST NUMBER: P830769

CATALOG NUMBER: OHBL-72SE-MFL-UNV-L840-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	45.3	152.8	430.2	577.4	600.0
115°	45.3	130.2	384.9	515.1	537.8
117.5°	50.9	113.2	339.6	464.2	481.2
120°	50.9	96.2	300.0	413.2	435.9
122.5°	50.9	79.2	266.1	373.6	390.6
125°	45.3	62.3	232.1	334.0	351.0
127.5°	39.6	50.9	198.1	300.0	317.0
130°	39.6	45.3	169.8	266.1	283.0
132.5°	39.6	50.9	141.5	232.1	254.7
135°	39.6	50.9	118.9	203.8	226.4
137.5°	39.6	50.9	96.2	175.5	198.1
140°	45.3	50.9	79.2	147.2	169.8
142.5°	50.9	50.9	62.3	124.5	141.5
145°	56.6	50.9	56.6	101.9	118.9
147.5°	56.6	56.6	56.6	79.2	96.2
150°	56.6	62.3	56.6	62.3	79.2
152.5°	56.6	62.3	56.6	50.9	62.3
155°	56.6	62.3	56.6	50.9	56.6
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°	39.6	203.8	549.1	724.6	752.9
110°	39.6	181.1	486.8	645.3	673.6



(END OF REPORT)