

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: P830573

Luminaire Tested: **OHBL-48SE-NL-UNV-L740-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P830573  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P472951)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-48SE-NL-UNV-L740-CD  
Description: 48000 LUMEN OHBL SE LED LUMINAIRE WITH 70CRI, 4000K LEDS AND NO LENS  
Light Source: -  
Ballast/Driver: -

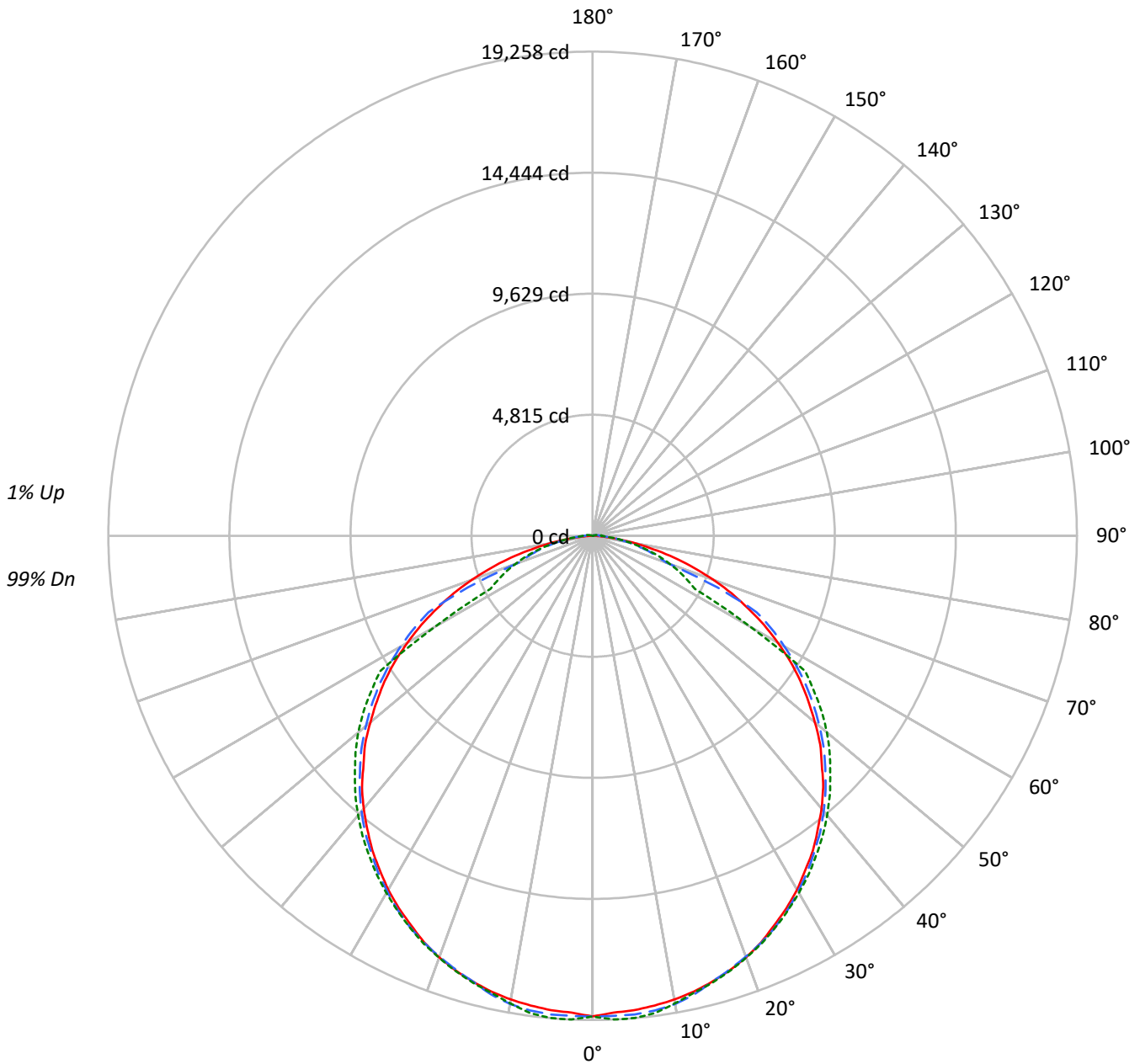
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 53675.0 lumens  
Efficiency: N/A  
Efficacy: 185.9 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39  
Luminous Opening: Rectangular (W 1.67' x L: 3.78' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 288.8  
Input Voltage (V): NR  
Input Current (Ain): 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	111	111	111	106	106	106	102	102	102					99															
1	109	105	100	97	106	102	99	95	98	95	92	94	91	89	90	88	86					84															
2	99	92	85	79	97	90	84	78	86	81	76	83	78	75	80	76	73					71															
3	91	81	73	66	88	79	72	66	76	70	64	73	68	63	70	66	62					60															
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53					51															
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46					44															
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	45	41					39															
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36					34															
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32					30															
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29					27															
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26					25															

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

	0°	45°	90°
0°	32653	32653	32653
5°	32472	32766	33013
10°	32481	32790	32749
15°	32476	32470	32541
20°	32432	32382	32462
25°	32210	32374	32399
30°	32061	32226	32352
35°	31853	32028	32328
40°	31578	31877	32348
45°	31123	31593	32281
50°	30654	31278	32312
55°	30067	30846	31956
60°	29060	30091	24878
65°	27494	29093	16743
70°	25430	15444	16249
75°	22181	14677	15518
80°	17057	13463	14221
85°	8609	13606	13933



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1816.2	3.4
10°-20°	5200.4	9.7
20°-30°	7912.9	14.7
30°-40°	9620.9	17.9
40°-50°	10115.9	18.8
50°-60°	9237.1	17.2
60°-70°	5921.4	11.0
70°-80°	2797.2	5.2
80°-90°	775.6	1.4
90°-100°	205.4	0.4
100°-110°	56.2	0.1
110°-120°	15.6	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	14929.5	27.8
0°-40°	24550.5	45.7
0°-60°	43903.5	81.8
0°-90°	53397.8	99.5
90°-120°	277.2	0.5
90°-150°	277.2	0.5
90°-180°	277.0	0.5
0°-180°	53675.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	19118	19118	19118	19118	19118	
5°	18940	19014	19111	19215	19255	###
15°	18366	18504	18363	18390	18403	5185
25°	17092	17118	17178	17206	17192	7887
35°	15277	15186	15360	15548	15505	9547
45°	12885	12861	13079	13388	13364	9959
55°	10097	10020	10359	10704	10731	9005
65°	6803	6803	7199	4129	4143	6745
75°	3361	3425	2224	2342	2352	3543
85°	439	557	694	752	711	649
90°	0	188	309	366	359	19
95°	10	97	222	299	299	5
105°	17	37	54	54	50	17
115°	17	23	33	23	3	12
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CATALOG NUMBER: OHBL-48SE-NL-UNV-L740-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	19117.7	19117.7	19117.7	19117.7	19117.7
2.5°	18983.4	19047.3	19117.7	19208.2	19258.3
5°	18939.7	19013.6	19110.9	19215.0	19255.1
7.5°	18846.0	18949.7	19043.8	19117.7	19141.1
10°	18728.4	18852.7	18906.3	18899.6	18882.9
12.5°	18570.7	18701.8	18685.1	18607.7	18621.1
15°	18366.1	18503.6	18362.9	18389.6	18403.1
17.5°	18124.6	18258.9	18094.5	18148.1	18151.6
20°	17843.0	17943.5	17816.0	17859.7	17859.7
22.5°	17504.2	17574.5	17520.9	17551.1	17557.8
25°	17091.5	17118.1	17178.5	17205.5	17192.0
27.5°	16695.8	16662.1	16779.7	16843.2	16809.5
30°	16256.2	16202.5	16340.0	16444.0	16403.9
32.5°	15752.9	15719.5	15877.2	16001.2	15977.7
35°	15276.6	15186.1	15360.5	15548.3	15504.7
37.5°	14713.0	14659.4	14857.2	15055.4	15031.9
40°	14162.9	14072.3	14297.1	14531.9	14508.4
42.5°	13572.6	13465.0	13710.1	13992.1	13965.1
45°	12884.7	12861.2	13079.3	13387.9	13364.5
47.5°	12274.5	12157.0	12462.0	12760.7	12787.7
50°	11536.2	11492.8	11771.3	12133.5	12160.2
52.5°	10815.2	10785.0	11076.6	11442.4	11489.3
55°	10097.1	10020.0	10358.8	10704.4	10731.4
57.5°	9329.2	9248.6	9594.2	9969.9	10026.7
60°	8507.0	8430.0	8808.9	9158.0	7282.8
62.5°	7685.2	7631.6	8027.6	5686.0	4582.6
65°	6803.0	6803.0	7198.6	4129.4	4142.9
67.5°	5978.0	5924.3	5367.5	3710.0	3710.0
70°	5092.2	5112.5	3092.7	3250.7	3253.9
72.5°	4203.3	4277.1	2670.4	2797.6	2804.3
75°	3361.2	3425.1	2224.0	2341.5	2351.5
77.5°	2469.0	1898.7	1787.9	1878.8	1882.0
80°	1734.2	1197.6	1368.8	1455.8	1445.8
82.5°	1012.9	838.5	1003.0	1066.9	1063.3
85°	439.3	556.9	694.3	751.5	711.0
87.5°	140.6	345.6	432.6	466.3	462.8
90°	0.0	187.9	308.6	365.5	359.1
92.5°	0.0	147.4	268.5	335.6	338.8
95°	9.9	97.3	221.6	298.7	298.7
97.5°	6.7	70.3	157.7	234.8	241.5
100°	6.7	56.8	104.1	167.6	171.2
102.5°	16.7	46.9	63.6	107.3	110.8
105°	16.7	36.9	53.6	53.6	50.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	20.2	27.0	36.9	27.0	3.2
115°	16.7	23.4	33.4	23.4	3.2
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
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°	16.7	33.4	46.9	30.2	9.9
110°	20.2	30.2	40.1	27.0	3.2



(END OF REPORT)