

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: P830568

Luminaire Tested: **OHBL-48SE-N-UNV-L935-CD**

Issue Date: 5/3/2024



**Test Information**

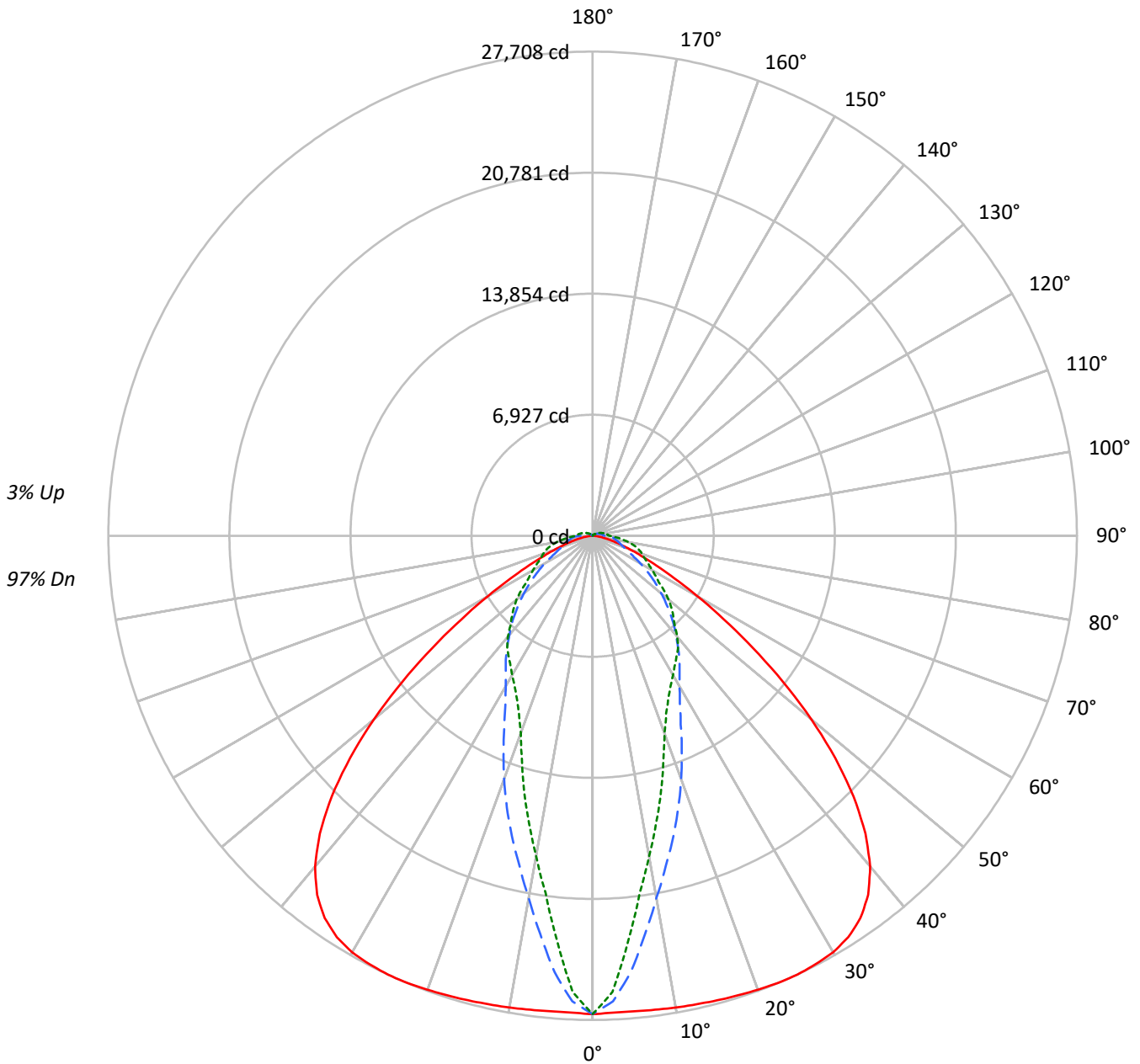
Test Method: LM-79-08  
Report Number: P830568  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-48SE-N-UNV-L935-CD  
Description: 48000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 3500K LEDS AND NARROW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 40398.0 lumens  
Efficiency: N/A  
Efficacy: 139.9 lumens/watt  
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78  
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 288.8  
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°	46751	46751	46751
5°	46656	42575	39584
10°	47182	35862	31740
15°	48103	30671	26051
20°	49455	25933	21071
25°	51165	21465	18463
30°	52934	18492	17151
35°	54035	16853	16341
40°	53111	15223	15503
45°	48860	13757	14352
50°	41222	12154	13471
55°	31323	10645	11987
60°	21951	9130	11476
65°	14765	7863	11235
70°	10084	7379	11787
75°	6997	7610	12594
80°	4817	8428	12965
85°	2817	10542	13601



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2304.1	5.7
10°-20°	5420.3	13.4
20°-30°	6794.3	16.8
30°-40°	7209.6	17.8
40°-50°	6518.6	16.1
50°-60°	4726.4	11.7
60°-70°	2966.0	7.3
70°-80°	1962.8	4.9
80°-90°	1130.8	2.8
90°-100°	547.8	1.4
100°-110°	378.1	0.9
110°-120°	233.3	0.6
120°-130°	113.0	0.3
130°-140°	52.0	0.1
140°-150°	28.4	0.1
150°-160°	12.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	14518.8	35.9
0°-40°	21728.3	53.8
0°-60°	32973.3	81.6
0°-90°	39033.0	96.6
90°-120°	1159.3	2.9
90°-150°	1352.7	3.3
90°-180°	1365.0	3.4
0°-180°	40398.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	27372	27372	27372	27372	27372	
5°	27317	26616	25053	23891	23290	###
15°	27526	22435	17819	15847	15128	7806
25°	27708	17347	11931	10590	10254	12801
35°	26715	11533	8659	8388	8386	16608
45°	21120	7305	6276	6427	6536	16089
55°	11181	4528	4095	4442	4601	10102
65°	3999	2626	2371	3038	3376	4161
75°	1235	1415	1592	2472	2621	1376
85°	216	586	1164	1620	1488	259
90°	0	245	675	951	959	14
95°	10	172	594	808	844	9
105°	21	115	432	573	589	21
115°	29	81	292	365	372	28
125°	31	42	148	188	185	27
135°	26	31	65	102	102	20
145°	31	34	39	60	57	19
155°	31	39	42	44	39	10
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°	27371.8	27371.8	27371.8	27371.8	27371.8
2.5°	27314.5	27158.2	26671.0	26374.0	26124.0
5°	27317.1	26616.3	25053.3	23891.4	23289.6
7.5°	27356.2	25798.3	22982.2	21286.3	20624.6
10°	27416.1	24784.9	21049.2	19241.3	18623.9
12.5°	27460.4	23643.9	19348.1	17490.7	16813.3
15°	27525.5	22435.1	17818.9	15846.8	15127.8
17.5°	27585.4	21296.7	16307.9	14247.3	13447.5
20°	27645.3	20069.7	14797.0	12673.8	12014.7
22.5°	27702.6	18775.0	13322.5	11452.0	11001.3
25°	27707.9	17347.4	11931.4	10589.7	10253.7
27.5°	27640.1	15867.7	10803.4	9868.1	9659.7
30°	27522.9	14432.3	9928.0	9347.1	9198.6
32.5°	27231.1	12968.2	9250.7	8844.3	8758.4
35°	26715.3	11532.8	8659.4	8388.4	8385.8
37.5°	25902.5	10258.9	8018.5	7971.6	8028.9
40°	24701.6	9143.9	7411.5	7536.6	7536.6
42.5°	23099.4	8174.8	6861.8	6989.5	6955.6
45°	21119.6	7304.7	6275.7	6426.8	6536.2
47.5°	18824.5	6538.8	5676.5	5968.3	6119.4
50°	16328.8	5809.4	5129.4	5502.0	5673.9
52.5°	13713.3	5134.7	4595.4	5022.6	5160.7
55°	11181.1	4527.7	4095.2	4441.7	4600.6
57.5°	8888.6	3949.3	3605.5	3933.7	4261.9
60°	6916.5	3451.8	3144.4	3613.3	3941.5
62.5°	5283.1	3008.9	2711.9	3313.7	3641.9
65°	3998.8	2625.9	2370.6	3037.5	3376.2
67.5°	3014.1	2295.1	2104.9	2837.0	3167.8
70°	2263.8	1974.7	1891.3	2711.9	3008.9
72.5°	1672.5	1680.3	1722.0	2602.5	2829.1
75°	1234.8	1414.6	1591.7	2472.2	2620.7
77.5°	883.1	1172.3	1474.5	2315.9	2368.0
80°	612.2	956.1	1352.0	2110.1	2065.8
82.5°	382.9	765.9	1242.6	1883.5	1761.0
85°	216.2	586.1	1164.5	1620.4	1487.5
87.5°	96.4	437.7	1018.6	1263.5	1180.1
90°	0.0	244.9	674.7	950.9	958.7
92.5°	5.2	203.2	622.6	870.1	896.2
95°	10.4	171.9	594.0	807.6	844.1
97.5°	13.0	151.1	557.5	750.3	781.5
100°	15.6	135.5	513.2	690.4	716.4
102.5°	18.2	125.0	471.5	627.8	648.7
105°	20.8	114.6	432.4	573.1	588.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	26.1	88.6	325.6	411.6	424.6
115°	28.7	80.8	291.8	364.7	372.5
117.5°	31.3	70.3	255.3	320.4	323.0
120°	31.3	62.5	218.8	273.5	273.5
122.5°	31.3	52.1	182.4	226.6	224.0
125°	31.3	41.7	148.5	187.6	185.0
127.5°	28.7	33.9	119.8	156.3	153.7
130°	28.7	33.9	96.4	132.9	132.9
132.5°	26.1	31.3	78.2	114.6	114.6
135°	26.1	31.3	65.1	101.6	101.6
137.5°	26.1	33.9	54.7	88.6	88.6
140°	26.1	31.3	46.9	78.2	78.2
142.5°	28.7	31.3	41.7	67.7	67.7
145°	31.3	33.9	39.1	59.9	57.3
147.5°	31.3	36.5	39.1	52.1	49.5
150°	31.3	39.1	39.1	46.9	44.3
152.5°	31.3	39.1	39.1	44.3	41.7
155°	31.3	39.1	41.7	44.3	39.1
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°	20.8	106.8	396.0	513.2	531.4
110°	23.4	96.4	362.1	458.5	476.7



(END OF REPORT)