

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: P828720

Luminaire Tested: **OHBL-48SE-N-UNV-L950-CD-UPL24**

Issue Date: 5/3/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P828720  
REPORT IS A COMBINATION OF REPORTS P826260 AND G3-2310-221-6  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-48SE-N-UNV-L950-CD-UPL24  
Description:  
Light Source: -  
Ballast/Driver: -

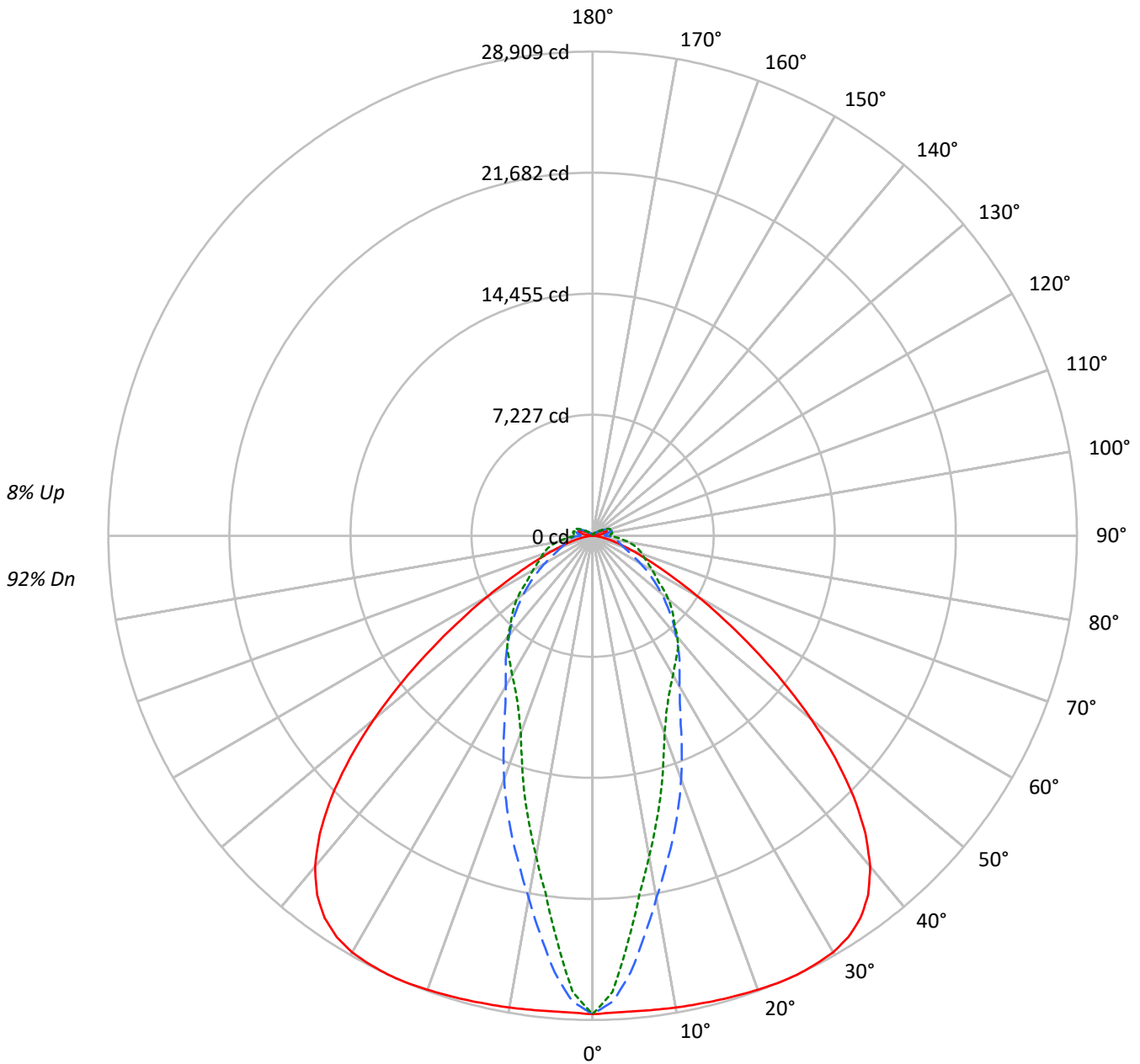
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 44253.2 lumens  
Efficiency: N/A  
Efficacy: 144.5 lumens/watt  
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 306.2  
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	117	117	117	117	114	114	114	114	107	107	107	100	100	100	95	95	95	92																			
1	108	103	99	96	104	100	97	93	95	92	89	89	87	85	85	83	81	79																			
2	99	92	85	80	96	89	83	79	84	80	76	80	76	73	76	73	70	68																			
3	91	82	74	69	88	80	73	67	76	70	65	72	67	63	68	65	61	59																			
4	84	74	66	60	82	72	64	59	68	62	57	65	60	55	62	58	54	52																			
5	78	67	58	52	76	65	57	52	62	56	51	59	54	49	57	52	48	46																			
6	73	61	53	47	71	59	52	46	57	50	45	54	49	44	52	47	43	41																			
7	68	56	48	42	66	54	47	42	52	46	41	50	44	40	48	43	39	37																			
8	64	51	43	38	62	50	43	38	48	42	37	46	41	36	45	40	36	34																			
9	60	47	40	35	58	47	39	34	45	38	34	43	37	33	42	37	33	31																			
10	56	44	37	32	55	43	36	32	42	35	31	40	35	31	39	34	30	28																			

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

	0°	45°	90°
0°	48777	48777	48777
5°	48442	44420	41501
10°	48750	37417	33440
15°	49456	32000	27583
20°	50585	27057	22425
25°	52053	22396	19755
30°	53542	19294	18458
35°	54314	17583	17697
40°	53013	15883	16907
45°	48385	14353	15777
50°	40447	12681	14945
55°	30396	11107	13447
60°	21011	9526	13051
65°	13883	8203	13007
70°	9252	7699	13983
75°	6191	7940	15495
80°	4008	8794	16960
85°	2063	10999	20224



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2404.0	5.4
10°-20°	5655.3	12.8
20°-30°	7088.8	16.0
30°-40°	7522.0	17.0
40°-50°	6801.1	15.4
50°-60°	4931.2	11.1
60°-70°	3094.6	7.0
70°-80°	2047.9	4.6
80°-90°	1185.2	2.7
90°-100°	773.2	1.7
100°-110°	1094.3	2.5
110°-120°	843.8	1.9
120°-130°	405.9	0.9
130°-140°	198.3	0.4
140°-150°	113.1	0.3
150°-160°	61.6	0.1
160°-170°	25.2	0.1
170°-180°	7.7	0.0
0°-30°	15148.1	34.2
0°-40°	22670.1	51.2
0°-60°	34402.5	77.7
0°-90°	40730.1	92.0
90°-120°	2711.3	6.1
90°-150°	3428.6	7.7
90°-180°	3523.0	8.0
0°-180°	44253.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	28558	28558	28558	28558	28558	
5°	28501	27770	26139	24927	24299	###
15°	28718	23408	18591	16534	15784	8144
25°	28909	18099	12448	11049	10698	13355
35°	27873	12033	9035	8752	8749	17327
45°	22035	7621	6548	6705	6820	16786
55°	11666	4724	4273	4634	4800	10540
65°	4172	2740	2473	3169	3523	4342
75°	1288	1476	1661	2579	2734	1436
85°	226	612	1215	1691	1552	270
90°	4	285	745	1046	1060	18
95°	57	276	769	1041	1105	153
105°	894	982	1185	1120	1094	849
115°	632	692	912	987	989	636
125°	326	353	470	510	505	304
135°	201	210	251	291	293	159
145°	159	165	173	196	194	100
155°	134	143	148	151	146	57
165°	87	88	89	89	89	25
175°	78	79	79	80	80	8
180°	78	78	78	78	78	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	28558.1	28558.1	28558.1	28558.1	28558.1
2.5°	28498.4	28335.3	27827.0	27517.1	27256.2
5°	28501.1	27769.9	26139.2	24926.9	24299.1
7.5°	28541.9	26916.4	23978.3	22208.9	21518.5
10°	28604.4	25859.2	21961.6	20075.2	19431.0
12.5°	28650.5	24668.7	20186.7	18248.8	17542.1
15°	28718.5	23407.5	18591.2	16533.7	15783.5
17.5°	28781.0	22219.8	17014.8	14864.8	14030.4
20°	28843.6	20939.5	15438.3	13223.1	12535.5
22.5°	28903.4	19588.7	13899.9	11948.3	11478.1
25°	28908.8	18099.2	12448.5	11048.7	10698.1
27.5°	28838.1	16555.4	11271.6	10295.8	10078.4
30°	28715.8	15057.8	10358.3	9752.2	9597.3
32.5°	28411.4	13530.3	9651.6	9227.7	9137.9
35°	27873.2	12032.7	9034.7	8752.0	8749.3
37.5°	27025.2	10703.6	8366.1	8317.1	8376.9
40°	25772.2	9540.2	7732.8	7863.2	7863.2
42.5°	24100.6	8529.2	7159.3	7292.5	7257.1
45°	22034.9	7621.3	6547.7	6705.3	6819.5
47.5°	19640.3	6822.2	5922.6	6227.0	6384.6
50°	17036.5	6061.2	5351.8	5740.4	5919.8
52.5°	14307.6	5357.2	4794.6	5240.3	5384.4
55°	11665.7	4723.9	4272.7	4634.2	4800.0
57.5°	9273.8	4120.5	3761.7	4104.2	4446.7
60°	7216.3	3601.3	3280.7	3769.9	4112.4
62.5°	5512.1	3139.3	2829.4	3457.3	3799.8
65°	4172.1	2739.8	2473.4	3169.2	3522.6
67.5°	3144.8	2394.5	2196.1	2959.9	3305.1
70°	2361.9	2060.2	1973.3	2829.4	3139.3
72.5°	1745.0	1753.1	1796.6	2715.3	2951.8
75°	1288.3	1475.9	1660.7	2579.4	2734.3
77.5°	921.4	1223.1	1538.4	2416.3	2470.7
80°	638.7	997.5	1410.7	2201.6	2155.4
82.5°	399.5	799.1	1296.5	1965.1	1837.4
85°	225.6	611.6	1215.0	1690.6	1552.0
87.5°	100.6	456.6	1062.7	1318.3	1231.2
90°	4.3	285.1	744.9	1045.9	1060.2
92.5°	20.3	251.1	712.2	996.5	1035.0
95°	56.9	275.9	769.3	1040.8	1105.0
97.5°	247.4	410.6	853.8	1112.3	1173.6
100°	496.3	650.9	946.7	1155.0	1190.0
102.5°	760.7	867.8	1029.2	1136.7	1151.5
105°	893.8	982.1	1185.0	1120.5	1094.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	729.7	805.4	1038.8	1108.5	1094.3
115°	631.6	692.0	912.1	986.6	989.4
117.5°	547.3	589.0	785.5	852.5	856.1
120°	458.6	500.8	671.7	724.4	719.2
122.5°	389.9	422.1	563.2	607.7	599.7
125°	326.5	353.0	470.5	510.5	505.1
127.5°	278.6	295.3	393.7	432.6	429.0
130°	246.4	258.7	332.7	371.6	372.5
132.5°	219.4	230.8	285.9	327.4	326.6
135°	201.1	210.0	251.4	291.2	292.9
137.5°	186.3	197.0	224.0	262.0	262.0
140°	173.3	182.1	202.8	237.2	238.1
142.5°	164.7	170.8	185.2	214.1	214.1
145°	158.7	164.8	172.9	195.5	193.7
147.5°	150.8	159.8	164.2	179.5	176.8
150°	144.8	154.7	157.3	166.3	164.4
152.5°	138.7	148.6	151.2	157.5	154.8
155°	133.5	143.4	147.8	151.4	146.0
157.5°	96.5	98.2	100.0	100.9	100.9
160°	93.0	93.9	95.6	96.5	96.5
162.5°	89.6	90.4	91.3	92.2	92.2
165°	86.9	87.8	88.7	88.7	88.7
167.5°	84.3	84.3	85.2	86.1	86.1
170°	81.7	82.6	82.6	83.5	83.5
172.5°	80.0	80.9	80.9	80.9	81.7
175°	78.2	79.1	79.1	80.0	80.0
177.5°	78.2	78.2	78.2	78.2	78.2
180°	78.2	78.2	78.2	78.2	78.2



Report Generated By 670246072 / DESKTOP-50001EG







— 0°-180°    - - 45°-225°    - - - - 90°-270°







107.5°	897.3	990.5	1224.4	1169.3	1082.2
110°	832.1	916.1	1154.2	1187.8	1121.7



(END OF REPORT)