

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: P828721

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

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P828721  
REPORT IS A COMBINATION OF REPORTS P826261 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-NL-UNV-L950-CD-UPL24  
Description:  
Light Source: -  
Ballast/Driver: -

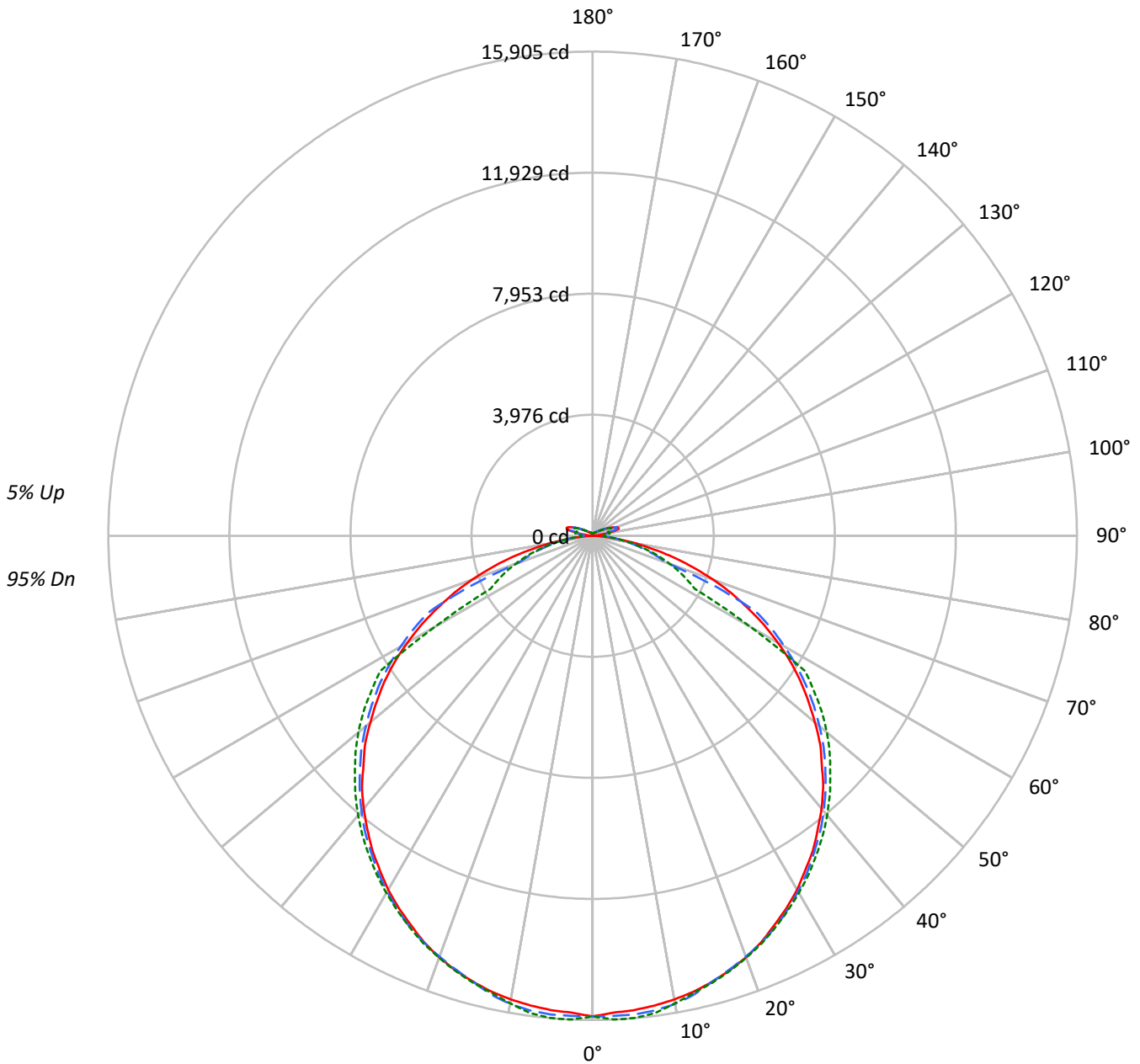
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 46432.1 lumens  
Efficiency: N/A  
Efficacy: 151.6 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.1')  
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	118	118	118	118	115	115	115	115	108	108	108	103	103	103	97	97	97	95																			
1	108	104	99	96	105	101	97	94	96	93	90	91	89	86	87	85	83	80																			
2	99	91	84	79	95	88	82	77	84	79	75	80	76	72	76	73	70	68																			
3	90	80	72	66	87	78	70	65	74	68	63	71	66	61	68	63	59	57																			
4	82	71	62	56	80	69	61	55	66	59	54	63	57	52	60	55	51	49																			
5	76	63	54	48	73	62	53	47	59	52	46	57	50	45	54	49	44	42																			
6	70	57	48	42	68	56	47	41	53	46	41	51	45	40	49	43	39	37																			
7	65	51	43	37	63	50	42	36	48	41	36	47	40	35	45	39	35	33																			
8	60	47	38	33	58	46	38	32	44	37	32	43	36	31	41	35	31	29																			
9	56	43	35	29	55	42	34	29	41	34	29	39	33	28	38	32	28	26																			
10	53	40	32	27	51	39	31	26	38	31	26	36	30	26	35	29	25	24																			

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

	0°	45°	90°
0°	26966	26966	26966
5°	26678	26916	27201
10°	26544	26791	26921
15°	26396	26383	26685
20°	26211	26161	26553
25°	25877	25995	26431
30°	25591	25707	26316
35°	25245	25365	26213
40°	24829	25041	26135
45°	24248	24588	25973
50°	23626	24077	25869
55°	22871	23429	25430
60°	21740	22472	19646
65°	20118	21242	13085
70°	18029	10921	12511
75°	14967	9869	11664
80°	10511	8256	10212
85°	4217	6615	8836



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1500.0	3.2
10°-20°	4294.8	9.2
20°-30°	6534.9	14.1
30°-40°	7945.5	17.1
40°-50°	8354.3	18.0
50°-60°	7628.5	16.4
60°-70°	4890.2	10.5
70°-80°	2310.1	5.0
80°-90°	645.9	1.4
90°-100°	371.2	0.8
100°-110°	746.3	1.6
110°-120°	613.2	1.3
120°-130°	288.0	0.6
130°-140°	144.1	0.3
140°-150°	83.5	0.2
150°-160°	48.7	0.1
160°-170°	25.2	0.1
170°-180°	7.7	0.0
0°-30°	12329.6	26.6
0°-40°	20275.1	43.7
0°-60°	36257.9	78.1
0°-90°	44104.2	95.0
90°-120°	1730.7	3.7
90°-150°	2246.3	4.8
90°-180°	2328.0	5.0
0°-180°	46432.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	15788	15788	15788	15788	15788	
5°	15642	15702	15783	15869	15902	###
15°	15168	15281	15165	15187	15198	4282
25°	14115	14137	14187	14209	14198	6513
35°	12616	12542	12686	12841	12805	7884
45°	10641	10622	10802	11056	11037	8225
55°	8339	8275	8555	8840	8863	7437
65°	5618	5618	5945	3410	3421	5570
75°	2776	2829	1837	1934	1942	2926
85°	363	460	573	621	587	536
90°	4	185	296	356	357	19
95°	54	177	333	445	471	148
105°	886	893	778	567	522	841
115°	616	627	635	625	603	617
125°	294	310	316	315	312	276
135°	174	177	184	185	187	137
145°	126	130	132	133	134	80
155°	101	103	104	105	105	47
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°	15788.4	15788.4	15788.4	15788.4	15788.4
2.5°	15677.6	15730.3	15788.4	15863.2	15904.6
5°	15641.5	15702.4	15782.9	15868.8	15901.9
7.5°	15564.0	15649.7	15727.4	15788.4	15807.8
10°	15467.0	15569.6	15613.9	15608.4	15594.5
12.5°	15336.7	15445.0	15431.2	15367.3	15378.4
15°	15167.8	15281.3	15165.1	15187.1	15198.2
17.5°	14968.4	15079.2	14943.4	14987.7	14990.6
20°	14735.7	14818.7	14713.4	14749.5	14749.5
22.5°	14455.9	14514.0	14469.7	14494.6	14500.2
25°	14115.1	14137.1	14187.0	14209.2	14198.1
27.5°	13788.3	13760.5	13857.6	13910.1	13882.2
30°	13425.3	13380.9	13494.5	13580.4	13547.2
32.5°	13009.6	12982.0	13112.3	13214.6	13195.3
35°	12616.3	12541.5	12685.5	12840.7	12804.6
37.5°	12150.8	12106.5	12269.9	12433.6	12414.2
40°	11696.5	11621.7	11807.3	12001.2	11981.9
42.5°	11209.1	11120.1	11322.5	11555.4	11533.1
45°	10640.9	10621.5	10801.6	11056.5	11037.2
47.5°	10136.9	10039.9	10291.9	10538.5	10560.8
50°	9527.2	9491.4	9721.3	10020.5	10042.5
52.5°	8931.8	8906.8	9147.7	9449.7	9488.5
55°	8338.7	8275.0	8554.9	8840.3	8862.6
57.5°	7704.6	7638.0	7923.4	8233.7	8280.7
60°	7025.5	6961.9	7274.9	7563.2	6014.6
62.5°	6346.9	6302.6	6629.6	4695.9	3784.5
65°	5618.3	5618.3	5945.0	3410.3	3421.4
67.5°	4937.0	4892.6	4432.8	3063.9	3063.9
70°	4205.4	4222.1	2554.1	2684.7	2687.3
72.5°	3471.3	3532.3	2205.3	2310.4	2315.9
75°	2775.9	2828.7	1836.7	1933.7	1942.0
77.5°	2039.1	1568.0	1476.5	1551.6	1554.2
80°	1432.2	989.0	1130.4	1202.3	1194.0
82.5°	836.5	692.5	828.3	881.1	878.1
85°	362.8	459.9	573.4	620.6	587.2
87.5°	116.2	285.4	357.3	385.1	382.2
90°	4.3	184.8	295.8	355.7	356.6
92.5°	14.8	160.8	284.3	365.9	379.8
95°	54.3	176.8	332.6	444.9	471.0
97.5°	239.4	311.1	402.4	523.4	557.7
100°	485.5	556.4	497.1	573.1	583.9
102.5°	755.5	776.0	589.8	570.3	566.3
105°	885.9	893.0	778.1	566.8	521.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	719.2	735.2	729.6	701.3	653.8
115°	615.5	627.1	635.3	625.4	603.4
117.5°	514.7	515.6	519.1	518.2	519.1
120°	426.0	435.6	443.4	439.1	433.9
122.5°	357.3	367.8	373.0	371.3	366.0
125°	293.9	309.5	315.6	314.7	312.1
127.5°	248.7	260.0	268.7	269.5	268.7
130°	216.5	223.4	232.1	233.0	233.9
132.5°	192.1	198.2	204.3	207.8	206.9
135°	173.9	177.4	183.5	185.2	186.9
137.5°	159.1	161.7	166.9	169.5	169.5
140°	146.1	149.5	153.9	155.6	156.5
142.5°	134.8	138.2	141.7	143.5	143.5
145°	126.1	129.5	132.2	133.0	133.9
147.5°	118.2	121.7	123.5	125.2	125.2
150°	112.2	113.9	116.5	117.4	118.2
152.5°	106.1	107.8	110.4	111.3	111.3
155°	100.9	102.6	104.3	105.2	105.2
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°	889.4	906.6	849.9	658.8	535.9
110°	824.4	840.5	809.5	731.7	626.9



(END OF REPORT)