

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: P828118

Luminaire Tested: **OHBL-48SE-MCL-UNV-L935-CD-UPL24**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P828118  
REPORT IS A COMBINATION OF REPORTS P826258 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-MCL-UNV-L935-CD-UPL24  
Description:  
Light Source: -  
Ballast/Driver: -

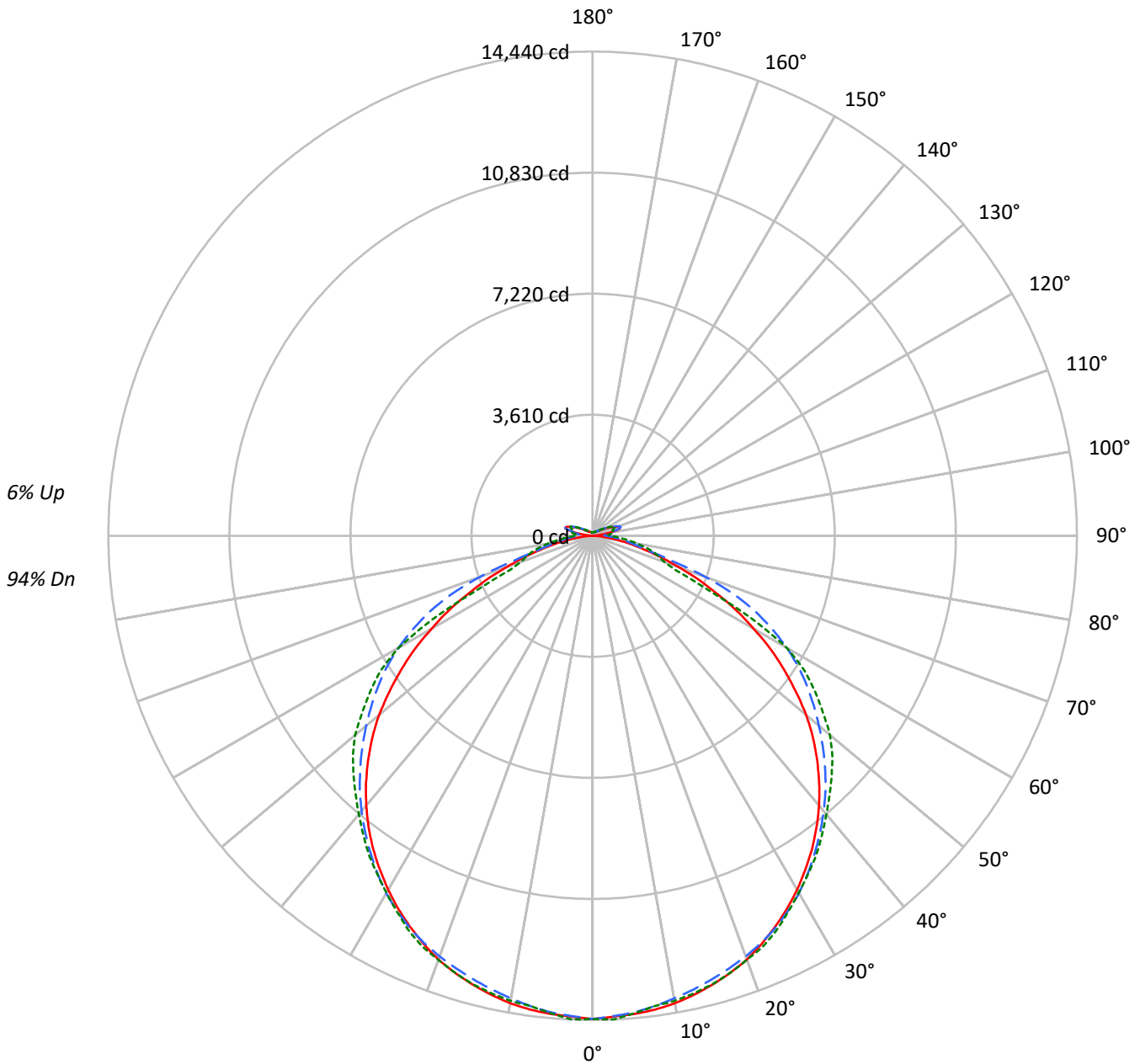
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 42748.5 lumens  
Efficiency: N/A  
Efficacy: 139.6 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39  
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				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	114	114	114	114	108	108	108	102	102	102	97	97	97	94				94
1	108	103	99	95	104	100	97	93	95	92	89	90	88	85	86	84	82	80				80
2	98	90	84	78	95	88	82	77	83	78	74	79	75	72	75	72	69	67				67
3	90	79	71	65	87	77	70	64	74	67	62	70	65	60	67	62	59	56				56
4	82	70	62	55	79	69	61	54	65	59	53	62	57	52	60	55	51	48				48
5	75	63	54	47	73	61	53	47	59	51	46	56	50	45	54	48	44	42				42
6	70	57	48	41	67	55	47	41	53	46	40	51	44	39	49	43	39	36				36
7	65	51	43	36	62	50	42	36	48	41	35	46	40	35	44	39	34	32				32
8	60	47	38	32	58	46	38	32	44	37	32	42	36	31	41	35	31	29				29
9	56	43	35	29	54	42	34	29	40	33	28	39	33	28	37	32	28	26				26
10	52	39	32	26	51	39	31	26	37	30	26	36	30	25	35	29	25	23				23

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

	0°	45°	90°
0°	24614	24614	24614
5°	24334	24245	24410
10°	24127	23867	24241
15°	23855	23582	24183
20°	23581	23398	24076
25°	23171	23212	23975
30°	22732	22926	23640
35°	22226	22479	23517
40°	21602	22016	23315
45°	20786	21482	23322
50°	19729	20874	23325
55°	18150	20274	22672
60°	16144	19403	21214
65°	13604	17803	13657
70°	10693	13869	10117
75°	7730	8209	10604
80°	5061	6793	10690
85°	2535	6168	11242



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1358.8	3.2
10°-20°	3896.4	9.1
20°-30°	5951.1	13.9
30°-40°	7220.7	16.9
40°-50°	7568.0	17.7
50°-60°	6857.7	16.0
60°-70°	4597.8	10.8
70°-80°	2064.6	4.8
80°-90°	754.4	1.8
90°-100°	418.7	1.0
100°-110°	777.1	1.8
110°-120°	628.7	1.5
120°-130°	305.4	0.7
130°-140°	158.3	0.4
140°-150°	93.7	0.2
150°-160°	56.8	0.1
160°-170°	30.7	0.1
170°-180°	9.4	0.0
0°-30°	11206.3	26.2
0°-40°	18427.1	43.1
0°-60°	32852.8	76.9
0°-90°	40269.6	94.2
90°-120°	1824.6	4.3
90°-150°	2382.0	5.6
90°-180°	2479.0	5.8
0°-180°	42748.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	14411	14411	14411	14411	14411	
5°	14317	14367	14267	14311	14292	###
15°	13852	13798	13700	13821	13838	3911
25°	12869	12813	12902	13021	12984	5932
35°	11406	11433	11550	11673	11627	7129
45°	9466	9620	9800	10050	10081	7292
55°	6966	7301	7799	8112	8093	6218
65°	4088	4728	5368	4530	3699	4073
75°	1609	2334	1717	1757	1871	1758
85°	277	531	681	823	863	338
90°	6	205	391	493	520	20
95°	46	203	385	484	517	140
105°	844	875	822	645	610	803
115°	593	608	643	658	657	597
125°	296	313	340	345	345	279
135°	185	191	199	211	215	147
145°	140	145	148	150	153	89
155°	118	121	123	124	122	55
165°	106	107	108	108	108	30
175°	98	99	97	95	95	9
180°	96	96	96	96	96	



TEST NUMBER: P828118

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	14410.9	14410.9	14410.9	14410.9	14410.9
2.5°	14352.6	14413.0	14338.0	14419.2	14440.1
5°	14317.2	14367.2	14267.1	14310.9	14292.2
7.5°	14252.5	14269.2	14150.4	14185.8	14148.3
10°	14156.7	14148.3	14008.8	14077.5	14085.8
12.5°	14015.0	13990.0	13865.0	13969.2	13971.2
15°	13852.5	13798.3	13700.3	13821.2	13837.9
17.5°	13664.9	13594.1	13529.5	13685.8	13660.8
20°	13446.2	13362.8	13350.3	13521.2	13458.7
22.5°	13175.2	13110.7	13139.8	13302.3	13262.8
25°	12868.9	12812.7	12902.3	13021.1	12983.6
27.5°	12546.0	12512.7	12614.8	12706.4	12633.5
30°	12191.8	12173.0	12308.4	12383.4	12291.8
32.5°	11806.2	11812.5	11941.8	12043.8	11958.4
35°	11406.2	11433.2	11550.0	11672.9	11627.1
37.5°	10966.5	11027.0	11143.7	11283.2	11235.3
40°	10501.8	10589.4	10718.6	10887.3	10843.6
42.5°	9999.7	10110.2	10276.8	10464.3	10460.2
45°	9466.2	9620.5	9799.7	10049.7	10081.0
47.5°	8912.0	9084.9	9312.1	9645.5	9693.4
50°	8309.8	8526.5	8809.9	9210.0	9239.2
52.5°	7638.8	7934.8	8309.8	8693.2	8657.8
55°	6965.8	7301.3	7799.3	8111.8	8093.1
57.5°	6294.8	6672.0	7276.3	7499.3	7497.2
60°	5544.8	6021.9	6682.4	6851.2	6684.5
62.5°	4850.8	5363.4	6049.0	5926.1	5355.1
65°	4088.2	4727.9	5367.6	4530.0	3698.6
67.5°	3411.0	4077.8	4559.2	3102.7	2656.8
70°	2729.7	3465.2	3554.8	2302.5	2271.2
72.5°	2125.4	2908.8	2452.5	1971.2	2071.2
75°	1608.6	2333.8	1717.0	1756.6	1871.2
77.5°	1173.2	1792.0	1335.7	1539.8	1633.6
80°	806.4	1269.0	1089.8	1294.0	1358.6
82.5°	506.3	837.7	873.1	1041.8	1108.5
85°	277.2	531.3	681.3	823.1	862.7
87.5°	114.6	320.9	520.9	635.5	668.8
90°	6.2	205.4	391.3	493.4	520.1
92.5°	16.2	172.9	347.6	441.3	466.8
95°	46.2	202.9	385.1	483.8	517.2
97.5°	228.3	330.0	462.9	559.7	595.5
100°	466.2	561.2	562.9	620.8	634.6
102.5°	719.2	765.0	656.7	632.5	632.1
105°	844.2	874.6	822.1	644.6	610.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	687.9	712.5	740.8	740.4	717.9
115°	593.3	607.5	642.9	657.9	657.1
117.5°	510.0	515.0	549.6	561.2	566.2
120°	425.0	436.2	470.8	477.1	474.2
122.5°	359.2	369.2	397.1	405.8	402.9
125°	296.2	313.3	340.0	345.4	345.0
127.5°	255.0	265.8	290.8	297.9	299.2
130°	224.2	232.9	251.7	260.8	261.7
132.5°	202.9	210.8	222.9	234.6	233.8
135°	185.4	190.8	198.8	210.8	214.6
137.5°	173.3	175.8	180.8	193.8	195.8
140°	160.8	164.2	166.2	176.2	179.2
142.5°	147.9	153.3	154.6	162.5	164.6
145°	139.6	145.0	147.5	150.4	153.3
147.5°	134.2	137.5	139.2	140.8	142.9
150°	128.3	130.0	132.5	133.3	134.2
152.5°	122.5	124.2	126.7	127.5	127.5
155°	117.5	121.2	122.9	123.8	121.7
157.5°	113.3	117.1	118.8	119.6	119.6
160°	110.0	112.9	114.6	115.4	115.4
162.5°	108.8	109.6	110.4	111.2	111.2
165°	106.2	107.1	107.9	107.9	107.9
167.5°	103.8	105.8	104.6	105.4	105.4
170°	101.2	102.1	102.1	100.8	100.8
172.5°	99.6	100.4	100.4	98.3	99.2
175°	97.9	98.8	96.7	95.4	95.4
177.5°	100.0	97.9	95.8	93.8	91.7
180°	95.8	95.8	95.8	95.8	95.8



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	849.6	882.1	879.6	730.4	632.9
110°	786.7	815.0	829.6	784.2	706.7



(END OF REPORT)