

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: P826617

Luminaire Tested: **OHBL-48SE-A-UNV-L830-CD-UPL24**

Issue Date: 5/3/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P826617  
REPORT IS A COMBINATION OF REPORTS P826257 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-A-UNV-L830-CD-UPL24  
Description:  
Light Source: -  
Ballast/Driver: -

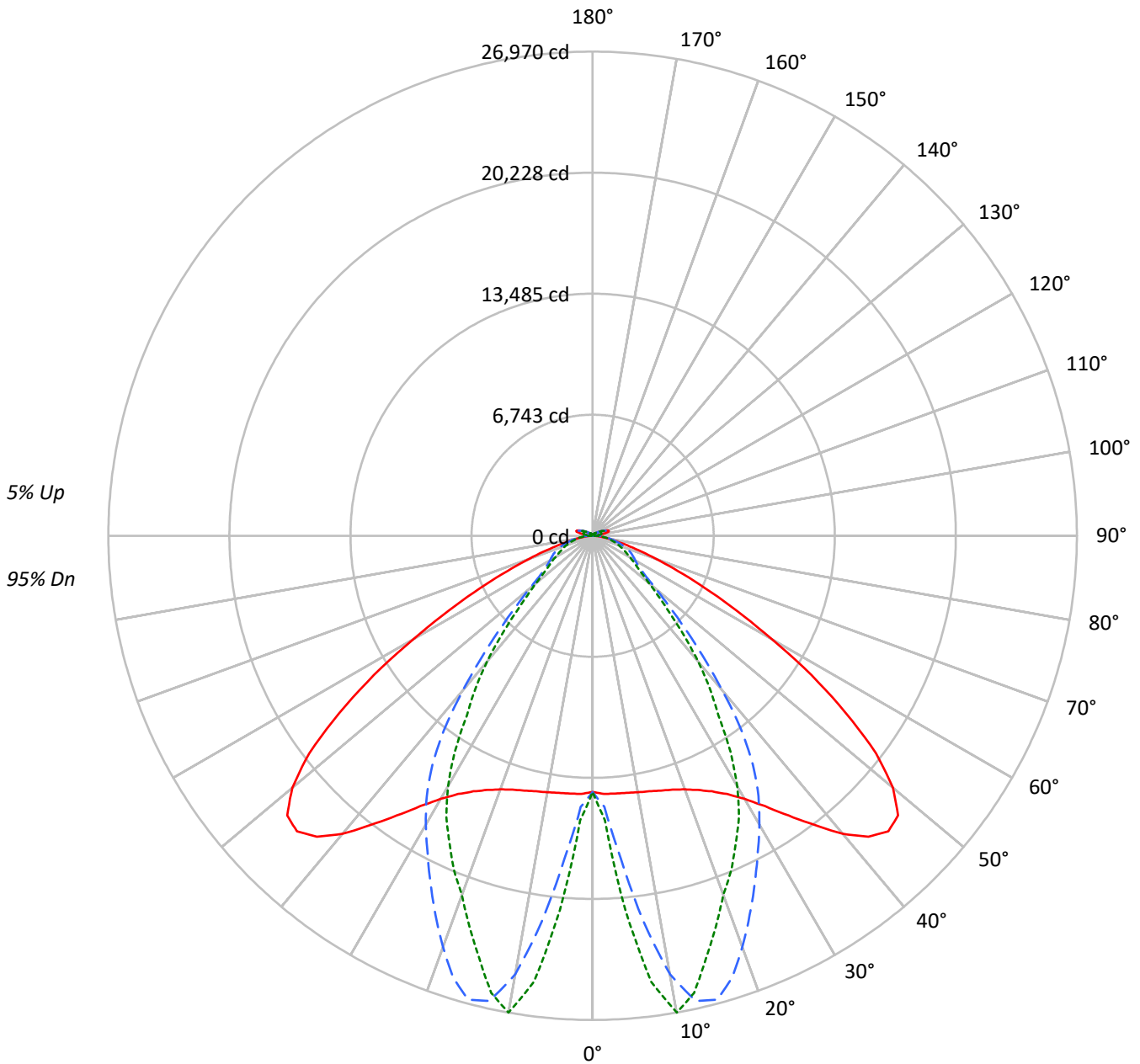
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 48051.4 lumens  
Efficiency: N/A  
Efficacy: 156.9 lumens/watt  
Spacing Criteria (0/90/45): 2.18 / 1.37 / 1.3  
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	
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	115	115	115	115	109	109	109	103	103	103	98	98	98	95				
1	109	105	102	99	106	103	100	97	98	95	93	93	91	89	89	87	86	83				
2	101	94	89	84	98	92	87	82	88	84	80	84	80	77	80	78	75	73				
3	94	85	78	72	91	83	76	71	79	74	69	76	71	68	73	69	66	64				
4	87	76	69	63	84	75	68	62	72	66	61	69	64	60	66	62	58	56				
5	81	69	61	56	78	68	61	55	65	59	54	63	57	53	61	56	52	50				
6	75	63	55	49	73	62	55	49	60	53	48	58	52	48	56	51	47	45				
7	70	58	50	44	68	57	49	44	55	48	44	53	47	43	52	46	42	40				
8	65	53	45	40	64	52	45	40	51	44	39	49	43	39	48	42	38	37				
9	61	49	42	37	60	48	41	36	47	40	36	46	40	36	44	39	35	33				
10	58	46	38	33	56	45	38	33	44	37	33	42	37	33	41	36	32	31				

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

	0°	45°	90°
0°	24377	24377	24377
5°	24501	30659	35734
10°	24719	42269	46415
15°	25309	46047	42600
20°	26354	42725	38072
25°	28277	38424	34824
30°	31531	34598	30966
35°	37068	30282	24676
40°	44571	23061	19638
45°	51126	15711	13978
50°	51831	10778	10338
55°	44864	8481	8446
60°	33513	7936	7598
65°	22971	7961	7197
70°	14687	7679	6971
75°	8831	7107	6669
80°	5197	6245	6881
85°	2502	5363	6381



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1863.2	3.9
10°-20°	6576.3	13.7
20°-30°	9690.6	20.2
30°-40°	10183.3	21.2
40°-50°	7792.1	16.2
50°-60°	4705.2	9.8
60°-70°	2871.2	6.0
70°-80°	1567.2	3.3
80°-90°	555.8	1.2
90°-100°	215.8	0.4
100°-110°	749.0	1.6
110°-120°	642.5	1.3
120°-130°	308.2	0.6
130°-140°	154.2	0.3
140°-150°	89.4	0.2
150°-160°	52.1	0.1
160°-170°	27.0	0.1
170°-180°	8.2	0.0
0°-30°	18130.1	37.7
0°-40°	28313.4	58.9
0°-60°	40810.7	84.9
0°-90°	45804.9	95.3
90°-120°	1607.3	3.3
90°-150°	2159.2	4.5
90°-180°	2246.0	4.7
0°-180°	48051.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	14272	14272	14272	14272	14272	
5°	14416	15466	18042	20145	20922	###
15°	14696	22890	26752	24964	24377	4179
25°	15704	26566	21358	19336	18859	7340
35°	19023	21274	15559	12958	12200	12067
45°	23283	12139	7167	6307	6042	17592
55°	17218	4116	3263	3024	3015	15215
65°	6903	2606	2400	2054	1949	7073
75°	1838	1621	1487	1226	1177	2115
85°	274	502	592	540	490	338
90°	5	32	44	58	64	18
95°	49	103	160	212	240	153
105°	933	923	785	559	514	886
115°	644	650	650	649	643	649
125°	314	331	338	337	334	295
135°	186	190	196	198	200	147
145°	135	139	141	142	143	86
155°	108	110	112	113	113	51
165°	93	94	95	95	95	27
175°	84	85	85	86	86	8
180°	84	84	84	84	84	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	14272.3	14272.3	14272.3	14272.3	14272.3
2.5°	14389.2	14536.0	15115.0	15716.0	15862.2
5°	14415.5	15465.7	18041.7	20145.2	20922.4
7.5°	14446.0	16971.8	21667.9	24243.3	25067.7
10°	14504.2	18876.5	24810.0	26658.9	26970.4
12.5°	14576.4	20894.3	26539.0	26471.6	26078.7
15°	14696.4	22890.1	26751.9	24963.6	24376.6
17.5°	14822.4	24578.7	25822.9	23322.1	22811.2
20°	15027.4	25832.0	24377.9	21863.1	21282.3
22.5°	15323.1	26521.2	22862.5	20543.6	20164.8
25°	15704.4	26565.9	21357.6	19336.1	18858.7
27.5°	16215.4	25949.6	19915.1	18153.1	17648.7
30°	16910.7	24769.6	18574.7	16726.5	16100.9
32.5°	17855.0	23071.3	17192.9	15004.3	14302.8
35°	19022.8	21274.4	15559.4	12957.6	12200.0
37.5°	20297.0	19279.2	13577.0	11145.4	10704.2
40°	21667.9	17223.4	11227.4	9449.5	9133.8
42.5°	22737.7	14988.4	9045.0	7852.8	7516.8
45°	23283.0	12139.4	7167.3	6306.8	6041.8
47.5°	23070.6	9423.3	5682.0	5011.2	4931.7
50°	21831.3	6958.0	4548.6	4128.0	4095.0
52.5°	19893.6	5186.3	3757.2	3497.0	3440.2
55°	17218.5	4116.4	3262.7	3024.0	3014.8
57.5°	14456.5	3497.0	2961.6	2776.7	2712.5
60°	11510.2	3118.2	2733.2	2524.6	2394.2
62.5°	9022.4	2853.3	2565.5	2282.2	2160.4
65°	6903.0	2605.9	2400.4	2053.9	1949.2
67.5°	5145.9	2370.3	2198.3	1814.0	1752.8
70°	3749.2	2128.6	1968.2	1613.3	1564.9
72.5°	2672.1	1887.4	1738.1	1424.8	1371.5
75°	1837.8	1620.7	1486.6	1226.5	1176.9
77.5°	1240.0	1348.3	1238.8	1047.2	1026.3
80°	828.1	1069.2	1001.8	887.5	874.5
82.5°	502.5	776.1	790.7	721.6	686.7
85°	273.6	502.5	592.4	539.8	489.7
87.5°	107.1	278.4	408.2	366.6	345.1
90°	4.7	31.6	43.7	57.7	64.2
92.5°	15.8	41.9	67.0	94.9	107.0
95°	49.3	103.3	160.1	212.2	240.1
97.5°	250.3	270.8	291.3	352.7	383.4
100°	513.7	545.3	440.2	465.3	473.7
102.5°	793.8	789.1	575.1	515.5	508.1
105°	933.3	923.1	785.4	559.3	513.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	751.9	763.1	748.2	726.8	697.0
115°	643.9	650.5	650.5	648.6	643.0
117.5°	550.9	551.8	555.5	554.6	555.5
120°	456.0	466.2	474.6	469.9	464.3
122.5°	382.5	393.6	399.2	397.3	391.8
125°	314.5	331.3	337.8	336.9	334.1
127.5°	266.1	278.2	287.5	288.5	287.5
130°	231.7	239.2	248.5	249.4	250.3
132.5°	205.7	212.2	218.7	222.4	221.5
135°	186.1	189.8	196.3	198.2	200.1
137.5°	170.3	173.1	178.7	181.5	181.5
140°	156.3	160.1	164.7	166.6	167.5
142.5°	144.2	148.0	151.7	153.5	153.5
145°	134.9	138.7	141.4	142.4	143.3
147.5°	126.6	130.3	132.1	134.0	134.0
150°	120.0	121.9	124.7	125.6	126.6
152.5°	113.5	115.4	118.2	119.1	119.1
155°	107.9	109.8	111.7	112.6	112.6
157.5°	103.3	105.2	107.0	107.9	107.9
160°	99.6	100.5	102.4	103.3	103.3
162.5°	95.8	96.8	97.7	98.6	98.6
165°	93.1	94.0	94.9	94.9	94.9
167.5°	90.3	90.3	91.2	92.1	92.1
170°	87.5	88.4	88.4	89.3	89.3
172.5°	85.6	86.5	86.5	86.5	87.5
175°	83.8	84.7	84.7	85.6	85.6
177.5°	83.8	83.8	83.8	83.8	83.8
180°	83.8	83.8	83.8	83.8	83.8



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	937.1	940.8	868.2	678.4	564.8
110°	864.5	872.9	831.0	759.3	668.1



(END OF REPORT)