

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: P826545

Luminaire Tested: **OHBL-24SE-A-UNV-L830-CD-UPL12**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P826545
REPORT IS A COMBINATION OF REPORTS P826077 AND G3-2310-221-12
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-24SE-A-UNV-L830-CD-UPL12
Description:
Light Source: -
Ballast/Driver: -

Summary

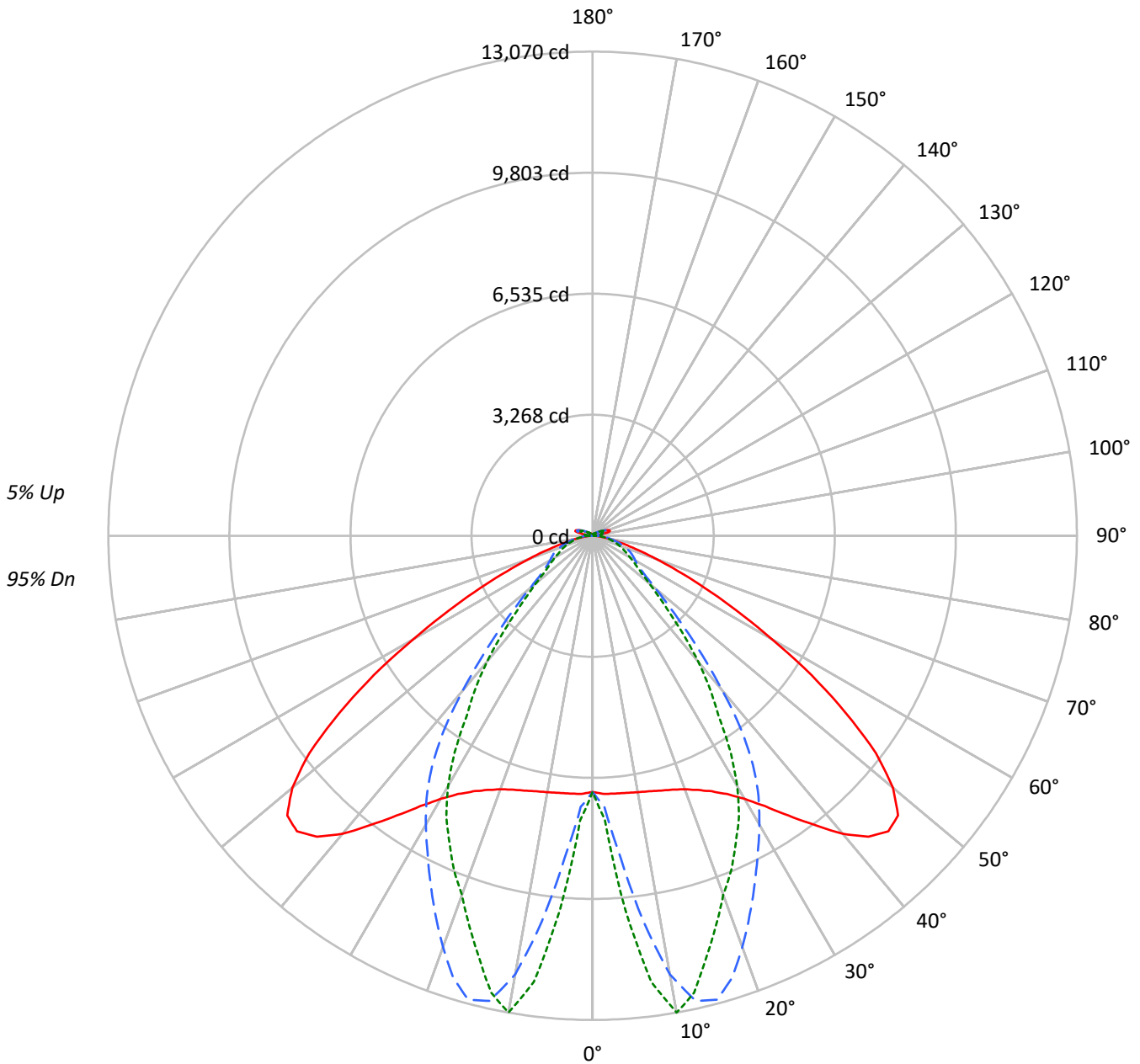
Lumens per Lamp: N/A
Luminaire Lumens: 23352.6 lumens
Efficiency: N/A
Efficacy: 159.5 lumens/watt
Spacing Criteria (0/90/45): 2.18 / 1.37 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')
CIE Type: Direct

Input Watts (W): 146.4
Input Voltage (V): NR
Input Current (A_{in}): 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	109	105	102	99	106	103	99	97	98	95	93	93	91	89	89	87	86	83																			
2	101	94	88	84	98	92	87	82	88	83	80	84	80	77	80	77	75	73																			
3	94	85	78	72	91	83	76	71	79	74	69	76	71	67	73	69	66	64																			
4	87	76	69	63	84	75	68	62	72	66	61	69	64	60	66	62	58	56																			
5	80	69	61	55	78	68	60	55	65	59	54	63	57	53	61	56	52	50																			
6	75	63	55	49	73	62	54	49	60	53	48	58	52	47	56	51	47	45																			
7	70	58	50	44	68	57	49	44	55	48	43	53	47	43	51	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	45	40	35	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°	11813	11813	11813
5°	11873	14857	17316
10°	11979	20483	22492
15°	12264	22314	20644
20°	12771	20704	18449
25°	13703	18620	16875
30°	15280	16766	15006
35°	17963	14674	11958
40°	21598	11175	9516
45°	24775	7614	6773
50°	25117	5222	5010
55°	21741	4110	4093
60°	16240	3846	3682
65°	11131	3858	3488
70°	7117	3721	3378
75°	4280	3444	3232
80°	2519	3026	3335
85°	1212	2599	3092



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	902.9	3.9
10°-20°	3186.8	13.6
20°-30°	4695.9	20.1
30°-40°	4934.7	21.1
40°-50°	3776.0	16.2
50°-60°	2280.1	9.8
60°-70°	1391.4	6.0
70°-80°	759.4	3.3
80°-90°	269.5	1.2
90°-100°	110.7	0.5
100°-110°	385.2	1.6
110°-120°	330.9	1.4
120°-130°	158.6	0.7
130°-140°	79.3	0.3
140°-150°	46.1	0.2
150°-160°	26.9	0.1
160°-170°	14.0	0.1
170°-180°	4.2	0.0
0°-30°	8785.7	37.6
0°-40°	13720.4	58.8
0°-60°	19776.4	84.7
0°-90°	22196.7	95.1
90°-120°	826.7	3.5
90°-150°	1110.8	4.8
90°-180°	1156.0	5.0
0°-180°	23352.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6916	6916	6916	6916	6916	
5°	6986	7494	8743	9762	10139	668
15°	7122	11092	12964	12097	11813	2025
25°	7610	12874	10350	9370	9139	3557
35°	9218	10309	7540	6279	5912	5848
45°	11283	5883	3473	3056	2928	8525
55°	8344	1995	1581	1465	1461	7373
65°	3345	1263	1163	995	945	3428
75°	891	785	720	594	570	1025
85°	133	244	287	262	237	164
90°	3	17	22	29	33	9
95°	23	54	80	108	125	76
105°	481	476	406	288	264	455
115°	335	335	336	333	328	335
125°	164	170	174	172	173	153
135°	95	98	101	102	102	76
145°	70	72	73	74	74	44
155°	56	57	58	59	59	26
165°	48	48	49	49	49	14
175°	44	44	44	44	44	4
180°	43	43	43	43	43	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6916.2	6916.2	6916.2	6916.2	6916.2
2.5°	6972.8	7044.0	7324.6	7615.8	7686.7
5°	6985.6	7494.5	8742.8	9762.1	10138.8
7.5°	7000.4	8224.3	10500.0	11748.0	12147.5
10°	7028.6	9147.4	12022.6	12918.6	13069.6
12.5°	7063.6	10125.1	12860.5	12827.8	12637.4
15°	7121.7	11092.3	12963.7	12097.0	11812.7
17.5°	7182.8	11910.6	12513.5	11301.7	11054.0
20°	7282.2	12517.9	11813.2	10594.7	10313.2
22.5°	7425.4	12851.9	11078.9	9955.2	9771.6
25°	7610.2	12873.5	10349.6	9370.0	9138.7
27.5°	7857.8	12574.9	9650.6	8796.7	8552.4
30°	8194.8	12003.0	9001.1	8105.4	7802.3
32.5°	8652.3	11180.1	8331.4	7270.9	6931.0
35°	9218.2	10309.3	7539.9	6279.1	5912.0
37.5°	9835.7	9342.5	6579.3	5400.9	5187.1
40°	10500.0	8346.2	5440.7	4579.2	4426.1
42.5°	11018.4	7263.2	4383.1	3805.4	3642.6
45°	11282.7	5882.6	3473.2	3056.2	2927.8
47.5°	11179.8	4566.4	2753.4	2428.4	2389.9
50°	10579.2	3371.8	2204.1	2000.4	1984.4
52.5°	9640.3	2513.2	1820.7	1694.6	1667.1
55°	8343.9	1994.7	1581.0	1465.3	1461.0
57.5°	7005.4	1694.6	1435.1	1345.6	1314.4
60°	5577.8	1511.0	1324.6	1223.4	1160.2
62.5°	4372.1	1382.6	1243.2	1106.0	1046.9
65°	3345.1	1262.9	1163.2	995.3	944.6
67.5°	2493.6	1148.7	1065.3	879.1	849.4
70°	1816.8	1031.5	953.8	781.8	758.3
72.5°	1294.9	914.6	842.2	690.5	664.6
75°	890.6	785.3	720.3	594.3	570.3
77.5°	600.9	653.3	600.3	507.4	497.4
80°	401.3	518.1	485.5	430.0	423.8
82.5°	243.5	376.0	383.2	349.7	332.8
85°	132.6	243.5	287.1	261.6	237.3
87.5°	51.9	134.9	197.8	177.6	167.3
90°	2.8	16.8	22.3	28.8	32.6
92.5°	8.4	21.4	35.4	50.2	54.9
95°	23.3	54.0	80.0	107.9	124.7
97.5°	125.6	136.8	154.5	182.4	191.7
100°	256.8	276.4	229.8	240.1	244.7
102.5°	408.5	402.9	294.1	266.1	261.5
105°	481.1	475.5	405.7	287.5	264.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	389.0	391.8	389.0	374.1	358.3
115°	335.0	335.0	335.9	333.1	327.6
117.5°	281.0	284.8	287.5	284.8	282.9
120°	235.4	241.0	242.9	239.2	239.2
122.5°	198.2	202.9	205.7	202.9	203.8
125°	163.8	170.3	174.0	172.2	173.1
127.5°	136.8	142.4	148.9	148.0	148.0
130°	119.1	122.8	127.5	128.4	128.4
132.5°	106.1	108.9	112.6	113.5	114.5
135°	94.9	97.7	101.4	102.4	102.4
137.5°	87.5	89.3	92.1	93.1	94.0
140°	80.0	82.8	84.7	85.6	85.6
142.5°	74.4	76.3	78.2	79.1	80.0
145°	69.8	71.7	72.6	73.5	74.4
147.5°	65.1	67.0	68.9	68.9	69.8
150°	62.3	63.3	64.2	65.1	65.1
152.5°	58.6	59.6	60.5	61.4	61.4
155°	55.8	56.8	57.7	58.6	58.6
157.5°	53.0	54.9	54.9	55.8	55.8
160°	51.2	52.1	53.0	53.0	53.0
162.5°	49.3	50.2	50.2	51.2	51.2
165°	48.4	48.4	49.3	49.3	49.3
167.5°	46.5	46.5	47.5	47.5	47.5
170°	45.6	45.6	45.6	46.5	46.5
172.5°	44.7	44.7	44.7	44.7	44.7
175°	43.7	43.7	43.7	43.7	43.7
177.5°	42.8	43.7	43.7	43.7	43.7
180°	42.8	42.8	42.8	42.8	42.8



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	483.9	485.8	447.6	347.1	287.5
110°	442.9	449.5	429.0	390.8	343.4



(END OF REPORT)