

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: P826548

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P826548
REPORT IS A COMBINATION OF REPORTS P826078 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-MCL-UNV-L830-CD-UPL12
Description:
Light Source: -
Ballast/Driver: -

Summary

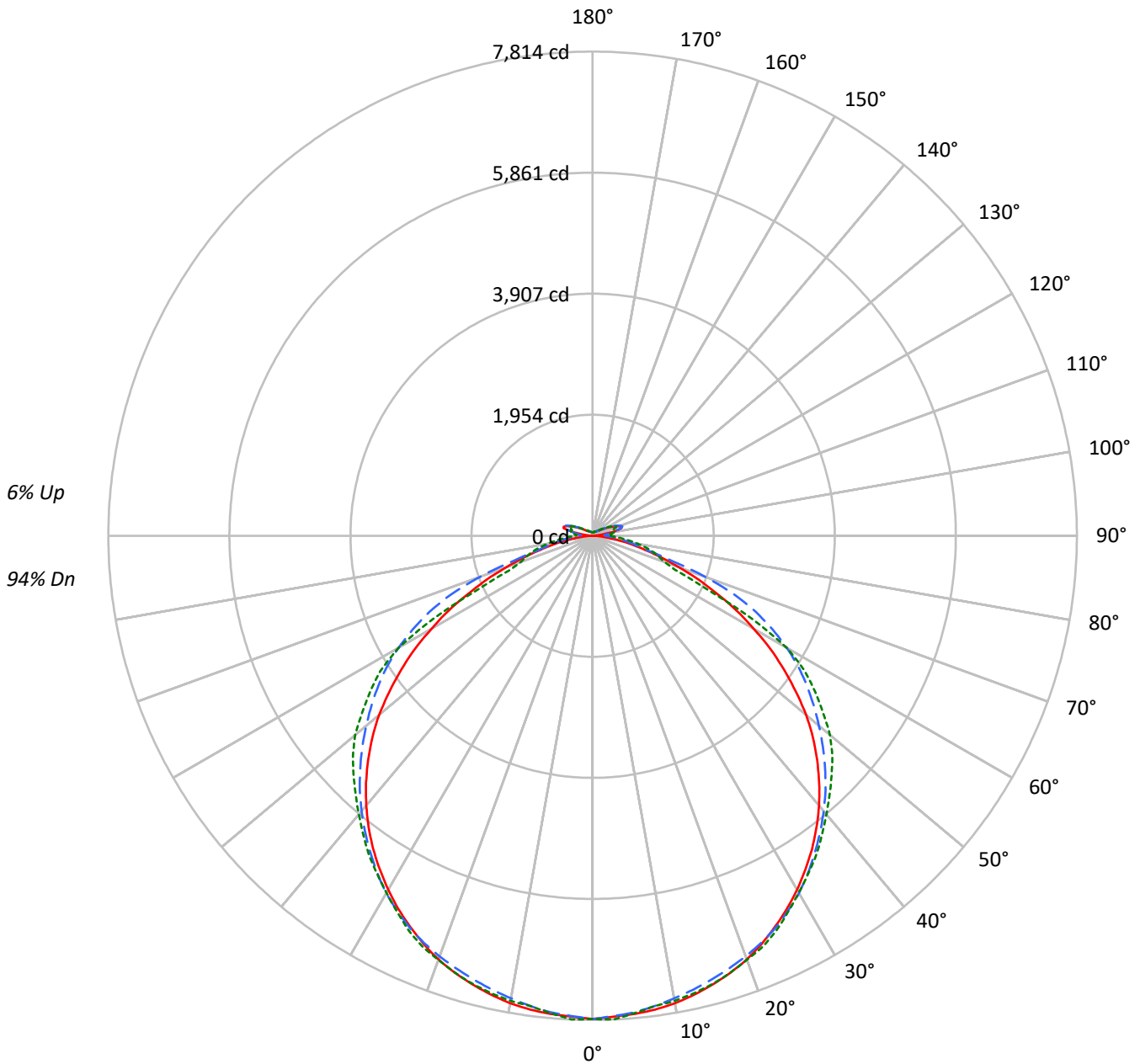
Lumens per Lamp: N/A
Luminaire Lumens: 23199.9 lumens
Efficiency: N/A
Efficacy: 158.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')
CIE Type: Direct

Input Watts (W): 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	114	114	114	114	108	108	108	102	102	102	96	96	96	94																			
1	108	103	99	95	104	100	97	93	95	92	89	90	88	85	85	84	82	79																			
2	98	90	84	78	95	88	82	77	83	78	74	79	75	71	75	72	69	66																			
3	90	79	71	65	87	77	70	64	73	67	62	70	65	60	67	62	59	56																			
4	82	70	62	55	79	69	61	54	65	58	53	62	56	52	59	55	50	48																			
5	75	63	54	47	73	61	53	47	59	51	46	56	50	45	53	48	44	42																			
6	70	56	48	41	67	55	47	41	53	46	40	51	44	39	48	43	38	36																			
7	64	51	43	36	62	50	42	36	48	41	35	46	40	35	44	38	34	32																			
8	60	47	38	32	58	46	38	32	44	37	32	42	36	31	41	35	31	29																			
9	56	43	35	29	54	42	34	29	40	33	28	39	32	28	37	32	28	26																			
10	52	39	32	26	51	39	31	26	37	30	26	36	30	25	35	29	25	23																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13319	13319	13319
5°	13168	13120	13209
10°	13056	12915	13118
15°	12909	12761	13086
20°	12761	12661	13028
25°	12539	12561	12974
30°	12301	12406	12792
35°	12027	12164	12726
40°	11690	11914	12616
45°	11248	11624	12620
50°	10676	11296	12622
55°	9822	10971	12268
60°	8736	10499	11480
65°	7362	9633	7390
70°	5786	7505	5475
75°	4183	4442	5738
80°	2738	3676	5784
85°	1372	3338	6083



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	735.3	3.2
10°-20°	2108.5	9.1
20°-30°	3220.3	13.9
30°-40°	3907.4	16.8
40°-50°	4095.3	17.7
50°-60°	3710.9	16.0
60°-70°	2488.0	10.7
70°-80°	1117.2	4.8
80°-90°	408.4	1.8
90°-100°	232.7	1.0
100°-110°	442.8	1.9
110°-120°	359.7	1.6
120°-130°	174.5	0.8
130°-140°	90.3	0.4
140°-150°	53.5	0.2
150°-160°	32.4	0.1
160°-170°	17.5	0.1
170°-180°	5.4	0.0
0°-30°	6064.1	26.1
0°-40°	9971.5	43.0
0°-60°	17777.7	76.6
0°-90°	21791.3	93.9
90°-120°	1035.2	4.5
90°-150°	1353.4	5.8
90°-180°	1409.0	6.1
0°-180°	23199.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7798	7798	7798	7798	7798	
5°	7747	7774	7720	7744	7734	737
15°	7496	7467	7414	7479	7488	2116
25°	6964	6933	6982	7046	7026	3210
35°	6172	6187	6250	6317	6292	3858
45°	5122	5206	5303	5438	5455	3946
55°	3769	3951	4220	4390	4379	3365
65°	2212	2558	2904	2451	2001	2204
75°	870	1263	929	951	1012	951
85°	150	288	369	445	467	183
90°	4	113	213	268	283	11
95°	24	114	211	267	288	78
105°	486	502	470	365	345	460
115°	344	348	369	375	372	343
125°	172	179	194	196	198	160
135°	105	109	114	120	122	84
145°	80	83	84	86	88	51
155°	67	69	70	71	70	31
165°	61	61	62	62	62	17
175°	56	56	55	54	54	5
180°	54	54	54	54	54	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7798.1	7798.1	7798.1	7798.1	7798.1
2.5°	7766.6	7799.3	7758.7	7802.7	7814.0
5°	7747.4	7774.5	7720.4	7744.1	7733.9
7.5°	7712.4	7721.5	7657.3	7676.4	7656.1
10°	7660.6	7656.1	7580.6	7617.8	7622.3
12.5°	7583.9	7570.4	7502.8	7559.1	7560.3
15°	7496.0	7466.7	7413.6	7479.1	7488.1
17.5°	7394.5	7356.1	7321.2	7405.8	7392.2
20°	7276.1	7231.0	7224.3	7316.7	7282.9
22.5°	7129.5	7094.6	7110.4	7198.3	7176.9
25°	6963.8	6933.4	6981.9	7046.1	7025.8
27.5°	6789.1	6771.0	6826.2	6875.9	6836.3
30°	6597.4	6587.2	6660.5	6701.0	6651.4
32.5°	6388.7	6392.1	6462.1	6517.2	6471.1
35°	6172.3	6186.9	6250.1	6316.6	6291.8
37.5°	5934.3	5967.0	6030.2	6105.7	6079.8
40°	5682.9	5730.3	5800.2	5891.4	5867.8
42.5°	5411.2	5470.9	5561.1	5662.6	5660.3
45°	5122.5	5205.9	5302.9	5438.2	5455.1
47.5°	4822.5	4916.1	5039.1	5219.5	5245.4
50°	4496.7	4614.0	4767.3	4983.8	4999.6
52.5°	4133.6	4293.8	4496.7	4704.1	4685.0
55°	3769.4	3951.0	4220.4	4389.6	4379.4
57.5°	3406.3	3610.5	3937.5	4058.1	4056.9
60°	3000.4	3258.6	3616.0	3707.4	3617.2
62.5°	2624.9	2902.3	3273.3	3206.8	2897.8
65°	2212.3	2558.5	2904.5	2451.3	2001.4
67.5°	1845.8	2206.6	2467.1	1678.9	1437.6
70°	1477.1	1875.2	1923.6	1245.9	1229.1
72.5°	1150.1	1574.0	1327.2	1066.7	1120.8
75°	870.4	1262.9	929.1	950.6	1012.5
77.5°	634.8	969.7	722.8	833.2	884.0
80°	436.3	686.7	589.7	700.2	735.1
82.5°	274.0	453.3	472.4	563.8	599.8
85°	150.0	287.5	368.7	445.4	466.8
87.5°	62.0	173.6	281.9	343.9	362.0
90°	3.9	112.6	212.9	267.9	282.9
92.5°	9.5	94.7	191.0	243.1	255.6
95°	24.4	113.7	210.9	266.9	288.2
97.5°	127.9	184.2	263.8	314.3	328.1
100°	260.2	315.8	321.1	350.5	358.6
102.5°	413.0	434.5	370.7	358.6	357.3
105°	485.6	501.5	470.0	365.3	345.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	396.9	407.6	427.3	422.6	409.0
115°	344.0	348.5	368.6	374.8	371.6
117.5°	290.1	296.0	315.7	319.7	320.1
120°	244.5	251.2	267.7	269.6	270.7
122.5°	207.2	211.9	227.1	229.9	232.0
125°	171.7	179.3	194.3	195.8	197.9
127.5°	145.8	151.4	166.9	169.4	170.5
130°	128.1	133.0	143.3	148.7	148.7
132.5°	116.2	120.1	127.3	132.7	133.6
135°	105.1	109.0	113.8	120.4	121.5
137.5°	98.7	100.6	103.4	110.0	112.0
140°	91.3	94.1	94.8	100.3	101.4
142.5°	84.6	87.6	88.3	92.6	94.7
145°	79.9	82.9	83.8	85.9	87.9
147.5°	76.4	78.3	80.1	80.1	82.2
150°	73.6	74.5	75.5	76.4	76.4
152.5°	69.9	70.8	71.7	72.7	72.7
155°	67.1	69.1	70.1	71.0	69.9
157.5°	64.3	67.3	67.3	68.2	68.2
160°	62.4	64.5	65.4	65.4	65.4
162.5°	61.7	62.6	62.6	63.6	63.6
165°	60.8	60.8	61.7	61.7	61.7
167.5°	58.9	60.0	59.8	59.8	59.8
170°	58.0	58.0	58.0	57.8	57.8
172.5°	57.0	57.0	57.0	55.9	55.9
175°	56.1	56.1	55.0	53.9	53.9
177.5°	56.3	56.1	55.0	53.9	52.8
180°	54.1	54.1	54.1	54.1	54.1



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	489.6	507.2	502.9	413.6	356.3
110°	449.7	467.5	475.2	447.2	402.0



(END OF REPORT)