

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: P826552

Luminaire Tested: **OHBL-24SE-MFL-UNV-L830-CD-UPL24**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P826552
REPORT IS A COMBINATION OF REPORTS P826247 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-24SE-MFL-UNV-L830-CD-UPL24
Description:
Light Source: -
Ballast/Driver: -

Summary

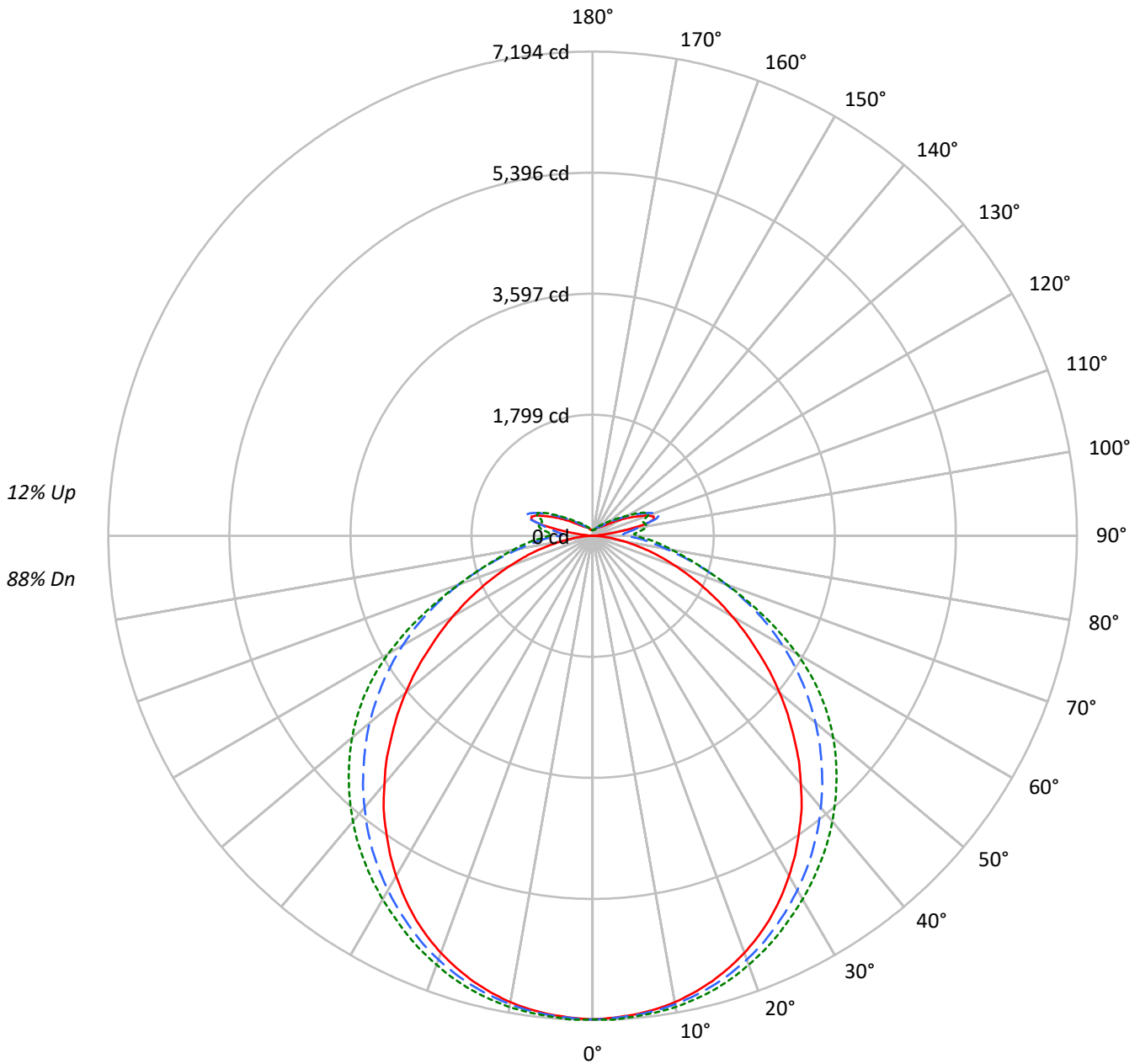
Lumens per Lamp: N/A
Luminaire Lumens: 23762.9 lumens
Efficiency: N/A
Efficacy: 152.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 155.4
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				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	116	116	116	116	112	112	112	112	104	104	104	97	97	97	91	91	91	88				88
1	105	100	96	92	101	97	93	89	90	87	84	84	82	80	79	77	75	72				72
2	96	87	80	75	92	84	78	73	79	74	69	74	70	66	69	66	63	60				60
3	87	77	68	62	84	74	67	61	69	63	58	65	60	55	61	57	53	50				50
4	80	68	59	52	77	66	58	51	62	55	49	58	52	47	54	49	45	43				43
5	73	61	52	45	70	59	50	44	55	48	43	52	46	41	49	44	39	37				37
6	68	54	46	39	65	53	45	39	50	43	37	47	41	36	44	39	35	32				32
7	63	49	41	35	60	48	40	34	45	38	33	43	36	32	40	35	31	29				29
8	58	45	36	31	56	44	36	30	41	34	29	39	33	28	37	32	28	26				26
9	54	41	33	28	52	40	32	27	38	31	26	36	30	26	34	29	25	23				23
10	51	38	30	25	49	37	30	25	35	28	24	33	27	23	32	26	23	21				21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12276	12276	12276
5°	12138	12154	12249
10°	11995	12042	12236
15°	11802	11908	12204
20°	11566	11746	12134
25°	11269	11544	12064
30°	10882	11327	11996
35°	10427	11095	11951
40°	9892	10828	11914
45°	9274	10538	11854
50°	8603	10245	11777
55°	7796	9886	11595
60°	6970	9464	11137
65°	6076	8927	10314
70°	5113	8242	9434
75°	4134	7451	8972
80°	2948	6864	9398
85°	1640	7070	11781



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	681.0	2.9
10°-20°	1953.8	8.2
20°-30°	2954.8	12.4
30°-40°	3547.3	14.9
40°-50°	3663.8	15.4
50°-60°	3296.2	13.9
60°-70°	2483.0	10.4
70°-80°	1499.3	6.3
80°-90°	739.0	3.1
90°-100°	524.4	2.2
100°-110°	925.2	3.9
110°-120°	745.9	3.1
120°-130°	366.7	1.5
130°-140°	185.0	0.8
140°-150°	104.4	0.4
150°-160°	57.7	0.2
160°-170°	27.0	0.1
170°-180°	8.2	0.0
0°-30°	5589.7	23.5
0°-40°	9137.0	38.5
0°-60°	16097.0	67.7
0°-90°	20818.3	87.6
90°-120°	2195.6	9.2
90°-150°	2851.7	12.0
90°-180°	2945.0	12.4
0°-180°	23762.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7187	7187	7187	7187	7187	
5°	7142	7161	7152	7180	7172	678
15°	6853	6887	6918	6976	6983	1932
25°	6259	6327	6417	6517	6533	2879
35°	5351	5476	5701	5873	5909	3345
45°	4223	4436	4807	5070	5124	3261
55°	2992	3302	3803	4090	4139	2683
65°	1826	2199	2691	2825	2793	1814
75°	860	1235	1558	1599	1583	918
85°	179	473	781	888	904	207
90°	5	216	490	621	650	15
95°	58	228	494	638	682	161
105°	946	995	979	813	778	898
115°	658	691	770	809	810	664
125°	329	351	410	441	443	308
135°	198	206	233	262	270	157
145°	152	154	159	174	180	96
155°	126	129	129	128	130	56
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°	7187.4	7187.4	7187.4	7187.4	7187.4
2.5°	7166.3	7183.9	7173.4	7196.2	7194.5
5°	7141.6	7161.0	7152.2	7180.4	7171.6
7.5°	7099.5	7120.6	7118.8	7150.5	7146.9
10°	7037.9	7060.8	7067.8	7110.0	7110.0
12.5°	6953.5	6983.4	7000.9	7051.9	7053.7
15°	6853.2	6886.6	6918.3	6976.4	6983.4
17.5°	6731.8	6774.1	6818.0	6884.9	6893.6
20°	6594.7	6642.1	6702.0	6772.3	6782.8
22.5°	6436.3	6492.6	6570.0	6652.6	6665.0
25°	6258.6	6327.2	6416.9	6517.2	6533.1
27.5°	6056.3	6135.5	6256.9	6369.5	6383.5
30°	5836.4	5929.7	6081.0	6214.7	6237.5
32.5°	5604.3	5711.6	5898.0	6047.6	6079.2
35°	5351.0	5475.9	5701.0	5873.4	5908.6
37.5°	5101.2	5238.4	5493.4	5690.4	5732.7
40°	4809.2	4979.9	5271.8	5489.9	5541.0
42.5°	4534.8	4719.5	5050.2	5287.7	5336.9
45°	4223.4	4436.3	4807.4	5069.6	5124.1
47.5°	3931.4	4161.9	4573.5	4844.4	4900.7
50°	3623.6	3876.9	4323.7	4606.9	4665.0
52.5°	3315.8	3588.4	4065.1	4358.9	4413.4
55°	2992.1	3301.7	3803.0	4089.8	4139.0
57.5°	2691.4	3018.5	3533.9	3806.5	3836.5
60°	2394.0	2733.5	3259.5	3498.7	3509.3
62.5°	2103.8	2460.9	2978.1	3168.0	3153.9
65°	1825.8	2198.8	2691.4	2825.0	2793.3
67.5°	1558.5	1943.7	2397.6	2483.7	2441.5
70°	1305.2	1695.8	2112.6	2156.6	2117.9
72.5°	1081.8	1460.0	1824.1	1861.0	1832.9
75°	860.2	1234.8	1558.5	1599.0	1583.2
77.5°	652.6	1016.7	1314.0	1366.8	1370.2
80°	469.7	818.0	1101.1	1183.9	1194.4
82.5°	309.6	635.0	923.5	1029.0	1044.8
85°	179.4	473.2	781.0	888.3	904.1
87.5°	77.4	341.2	627.9	724.7	744.1
90°	4.7	216.4	490.5	620.6	650.0
92.5°	21.1	195.0	450.5	583.9	615.4
95°	58.2	228.2	494.3	637.9	681.6
97.5°	260.8	376.3	581.5	723.9	770.4
100°	524.2	636.8	691.7	790.7	813.1
102.5°	804.3	870.1	795.0	800.5	805.4
105°	945.6	995.2	978.9	812.6	777.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	765.9	810.5	881.9	906.2	883.5
115°	658.0	690.9	770.0	808.7	810.1
117.5°	566.7	587.0	661.1	698.8	705.1
120°	471.8	496.1	567.8	598.3	599.8
122.5°	398.3	418.3	481.8	513.5	513.1
125°	328.6	350.6	409.9	440.6	443.1
127.5°	278.4	294.1	349.1	381.7	386.1
130°	244.0	253.2	301.2	332.0	338.3
132.5°	217.9	228.0	262.7	294.5	300.7
135°	198.4	205.7	233.3	261.6	270.4
137.5°	182.6	188.9	208.5	236.0	243.1
140°	170.4	175.9	189.4	212.3	220.3
142.5°	160.1	163.8	171.0	192.3	197.6
145°	152.5	154.5	159.0	174.0	180.2
147.5°	144.1	147.9	149.7	158.7	163.9
150°	137.6	141.3	142.3	145.0	151.2
152.5°	131.1	134.7	135.8	134.9	138.5
155°	125.5	129.2	129.3	128.4	130.2
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°	949.4	1004.2	1038.9	903.6	798.8
110°	876.8	929.2	982.3	959.9	877.4



(END OF REPORT)