

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: P826555

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P826555
REPORT IS A COMBINATION OF REPORTS P826248 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-N-UNV-L830-CD-UPL24
Description:
Light Source: -
Ballast/Driver: -

Summary

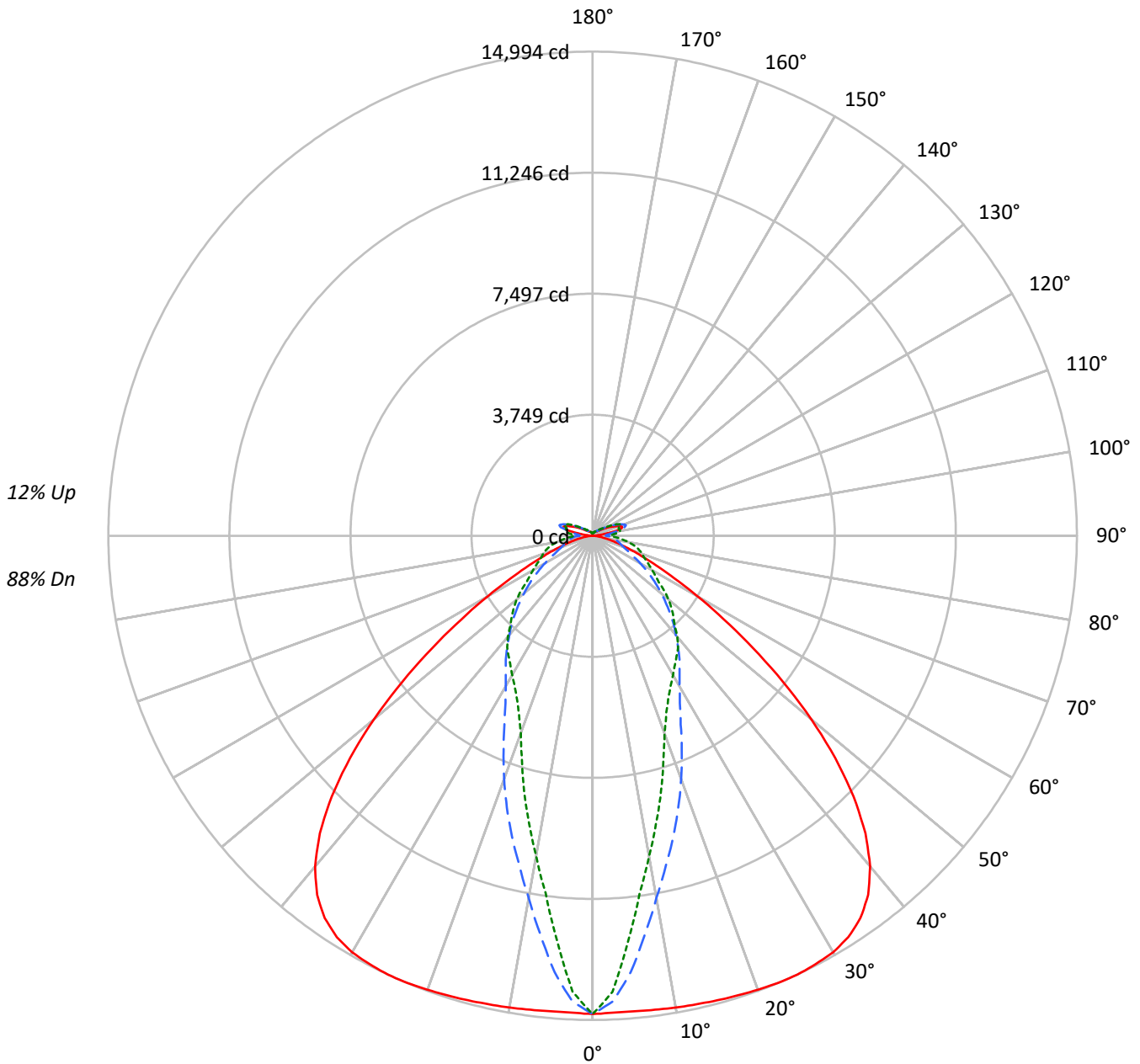
Lumens per Lamp: N/A
Luminaire Lumens: 24112.9 lumens
Efficiency: N/A
Efficacy: 155.2 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 155.4
Input Voltage (V): NR
Input Current (Ain): 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	116	116	116	116	112	112	112	112	104	104	104	97	97	97	91	91	91	88																			
1	107	102	98	95	103	99	95	92	92	90	87	86	84	82	81	79	78	75																			
2	98	91	84	79	94	88	82	77	82	78	74	77	74	70	73	70	67	64																			
3	90	81	74	68	87	78	72	66	74	68	64	69	65	61	65	62	58	56																			
4	83	73	65	59	80	71	63	58	67	60	56	63	58	54	59	55	52	49																			
5	77	66	58	52	75	64	56	51	61	54	49	57	52	48	54	50	46	44																			
6	72	60	52	46	69	58	51	45	55	49	44	53	47	43	50	45	41	39																			
7	67	55	47	41	65	53	46	41	51	44	40	48	43	38	46	41	37	35																			
8	63	50	43	37	61	49	42	37	47	41	36	45	39	35	43	38	34	32																			
9	59	47	39	34	57	46	38	34	44	37	33	42	36	32	40	35	31	29																			
10	56	43	36	31	54	42	35	31	41	34	30	39	33	29	37	32	29	27																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	25298	25298	25298
5°	25124	23038	21524
10°	25284	19406	17344
15°	25650	16597	14306
20°	26236	14033	11631
25°	26997	11616	10246
30°	27769	10007	9573
35°	28170	9120	9179
40°	27495	8238	8769
45°	25095	7444	8183
50°	20978	6577	7751
55°	15765	5760	6974
60°	10897	4940	6769
65°	7201	4255	6746
70°	4799	3993	7252
75°	3211	4118	8037
80°	2079	4560	8796
85°	1070	5705	10488



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1246.8	5.2
10°-20°	2933.1	12.2
20°-30°	3676.6	15.2
30°-40°	3901.3	16.2
40°-50°	3527.4	14.6
50°-60°	2557.6	10.6
60°-70°	1605.0	6.7
70°-80°	1062.2	4.4
80°-90°	617.7	2.6
90°-100°	512.2	2.1
100°-110°	953.6	4.0
110°-120°	768.8	3.2
120°-130°	369.4	1.5
130°-140°	182.4	0.8
140°-150°	104.8	0.4
150°-160°	58.8	0.2
160°-170°	27.0	0.1
170°-180°	8.2	0.0
0°-30°	7856.6	32.6
0°-40°	11757.9	48.8
0°-60°	17842.9	74.0
0°-90°	21127.7	87.6
90°-120°	2234.6	9.3
90°-150°	2891.2	12.0
90°-180°	2985.0	12.4
0°-180°	24112.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	14812	14812	14812	14812	14812	
5°	14782	14403	13557	12928	12603	###
15°	14895	12140	9642	8575	8186	4224
25°	14994	9387	6456	5730	5549	6927
35°	14456	6241	4686	4539	4538	8987
45°	11428	3953	3396	3478	3537	8706
55°	6050	2450	2216	2404	2490	5467
65°	2164	1421	1283	1644	1827	2252
75°	668	766	861	1338	1418	745
85°	117	317	630	877	805	140
90°	5	164	409	572	583	11
95°	55	196	482	649	697	158
105°	945	985	1019	869	832	897
115°	660	694	808	846	845	665
125°	332	354	418	438	434	310
135°	200	207	232	253	255	158
145°	152	157	163	175	174	96
155°	125	131	134	137	134	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°	14811.7	14811.7	14811.7	14811.7	14811.7
2.5°	14780.8	14696.2	14432.5	14271.8	14136.4
5°	14782.2	14403.0	13557.1	12928.4	12602.7
7.5°	14803.3	13960.3	12436.4	11518.7	11160.6
10°	14835.7	13411.9	11390.4	10412.1	10077.9
12.5°	14859.7	12794.5	10469.9	9464.8	9098.2
15°	14894.9	12140.3	9642.3	8575.3	8186.1
17.5°	14927.3	11524.3	8824.7	7709.7	7276.9
20°	14959.7	10860.3	8007.1	6858.2	6501.5
22.5°	14990.8	10159.7	7209.2	6197.0	5953.1
25°	14993.6	9387.2	6456.5	5730.5	5548.6
27.5°	14956.9	8586.5	5846.0	5340.0	5227.2
30°	14893.4	7809.8	5372.4	5058.0	4977.6
32.5°	14735.6	7017.5	5005.8	4785.9	4739.4
35°	14456.5	6240.8	4685.8	4539.2	4537.9
37.5°	14016.7	5551.4	4339.1	4313.7	4344.7
40°	13366.8	4948.0	4010.6	4078.3	4078.3
42.5°	12499.8	4423.7	3713.2	3782.2	3763.9
45°	11428.4	3952.8	3396.0	3477.8	3536.9
47.5°	10186.5	3538.3	3071.8	3229.6	3311.4
50°	8836.0	3143.6	2775.7	2977.3	3070.4
52.5°	7420.6	2778.5	2486.7	2717.9	2792.6
55°	6050.5	2450.1	2216.0	2403.5	2489.5
57.5°	4809.9	2137.1	1951.0	2128.6	2306.3
60°	3742.8	1867.8	1701.5	1955.3	2132.8
62.5°	2858.9	1628.2	1467.5	1793.2	1970.7
65°	2163.9	1421.0	1282.9	1643.7	1827.0
67.5°	1631.0	1241.9	1139.0	1535.1	1714.2
70°	1225.1	1068.6	1023.4	1467.5	1628.2
72.5°	905.1	909.2	931.9	1408.3	1531.0
75°	668.2	765.5	861.3	1337.8	1418.2
77.5°	477.9	634.4	797.9	1253.2	1281.4
80°	331.3	517.4	731.6	1141.9	1117.9
82.5°	207.2	414.5	672.4	1019.2	953.0
85°	117.0	317.2	630.2	876.9	804.9
87.5°	52.2	236.8	551.2	683.7	638.6
90°	4.7	164.2	408.9	572.2	583.0
92.5°	18.6	151.9	404.0	565.8	591.9
95°	55.0	196.3	481.5	649.2	696.8
97.5°	257.4	352.6	593.0	758.7	806.3
100°	522.1	618.6	717.8	838.8	861.3
102.5°	803.6	856.8	830.2	855.3	859.1
105°	944.6	985.2	1019.4	869.4	832.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	765.9	811.0	924.4	949.5	926.7
115°	659.5	694.2	808.4	846.0	844.6
117.5°	567.8	589.9	693.7	728.0	730.3
120°	472.9	500.1	593.0	618.0	612.4
122.5°	399.4	421.8	497.8	520.0	513.0
125°	331.5	353.8	418.1	438.4	434.2
127.5°	281.7	296.6	352.4	373.1	370.7
130°	247.2	257.5	300.7	321.3	322.3
132.5°	219.7	229.1	260.9	284.5	283.5
135°	200.2	206.8	231.6	253.2	255.1
137.5°	184.3	191.4	208.3	229.4	229.4
140°	170.4	177.0	190.1	208.8	209.7
142.5°	159.8	164.9	174.2	190.2	190.2
145°	151.9	157.0	162.6	174.8	174.3
147.5°	143.5	150.0	153.3	162.2	160.8
150°	137.0	143.0	145.8	151.0	150.6
152.5°	130.5	136.5	139.3	143.1	141.6
155°	124.9	130.9	134.2	136.6	133.7
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°	948.3	998.6	1082.5	956.1	852.4
110°	877.1	925.1	1027.0	1007.4	926.1



(END OF REPORT)