

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: P842994

Luminaire Tested: **24CZ2-30-UNV-B50**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P842994
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P272125)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-30-UNV-B50
Description: 2X4 3000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND RIBBED LENS

Light Source: -
Ballast/Driver: -

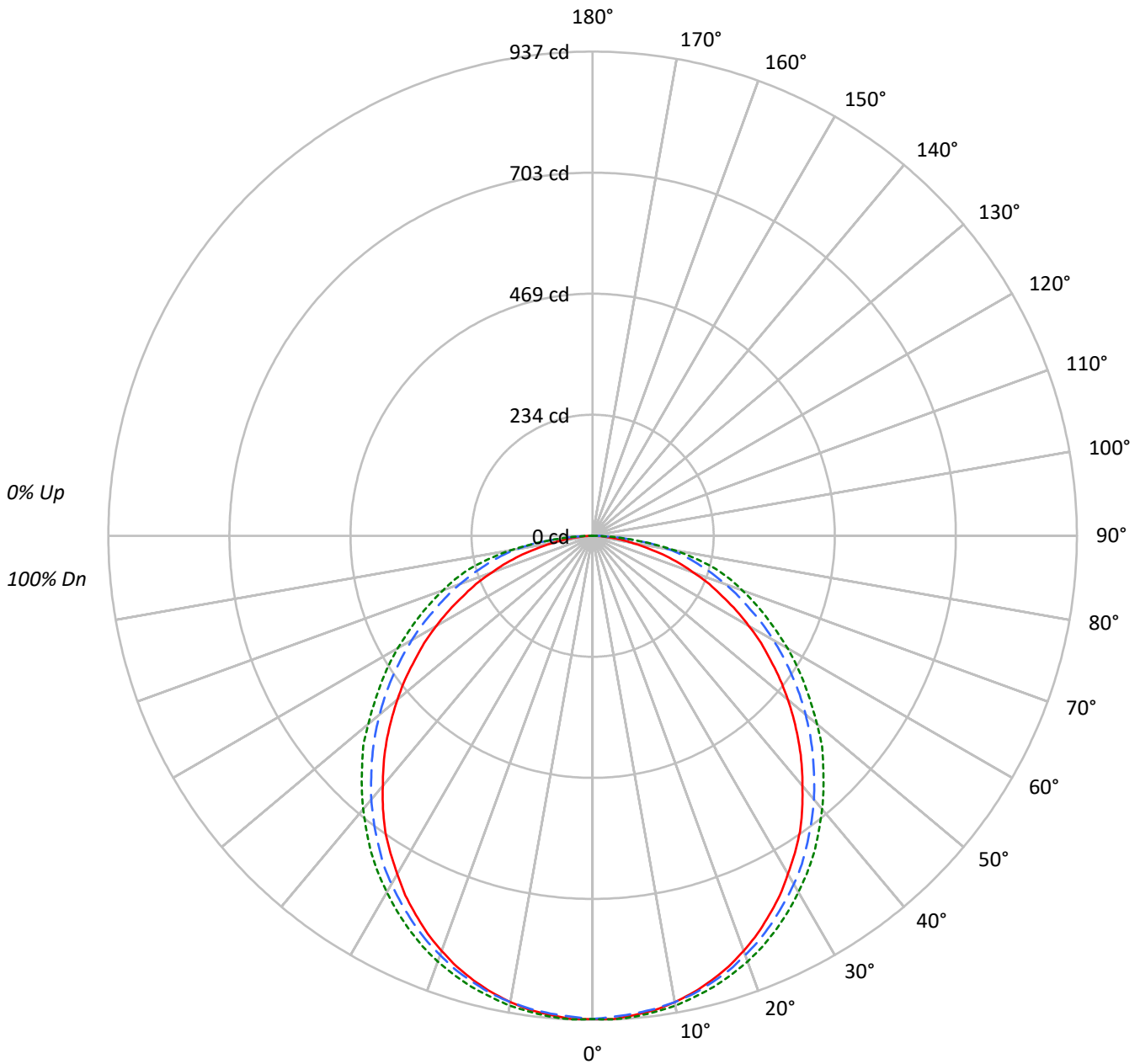
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2662.0 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 23
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

TEST NUMBER: P842994
CATALOG NUMBER: 24CZ2-30-UNV-B50

Luminous Intensity Polar Plot





TEST NUMBER: P842994

CATALOG NUMBER: 24CZ2-30-UNV-B50

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100								
1	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83								
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69								
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58								
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49								
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42								
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	37								
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33								
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29								
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26								
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1320	1320	1320
5°	1319	1315	1324
10°	1314	1314	1323
15°	1301	1307	1321
20°	1284	1297	1317
25°	1260	1284	1309
30°	1232	1269	1298
35°	1205	1248	1288
40°	1164	1228	1273
45°	1126	1203	1259
50°	1082	1181	1244
55°	1034	1159	1232
60°	986	1141	1229
65°	923	1121	1237
70°	855	1127	1270
75°	766	1148	1341
80°	619	1217	1313
85°	465	1067	1041



TEST NUMBER: P842994

CATALOG NUMBER: 24CZ2-30-UNV-B50

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.5	3.3
10°-20°	253.0	9.5
20°-30°	380.3	14.3
30°-40°	453.0	17.0
40°-50°	463.6	17.4
50°-60°	417.4	15.7
60°-70°	327.8	12.3
70°-80°	212.7	8.0
80°-90°	65.8	2.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	721.8	27.1
0°-40°	1174.7	44.1
0°-60°	2055.7	77.2
0°-90°	2662.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2662.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	935	935	935	935	935	
5°	931	933	928	934	934	88
15°	890	893	895	902	904	251
25°	809	816	824	838	840	373
35°	699	708	725	742	748	436
45°	564	578	603	626	631	435
55°	420	439	471	496	501	377
65°	276	298	336	364	370	275
75°	140	167	211	239	246	149
85°	29	53	66	64	64	35
90°	0	0	0	0	0	



TEST NUMBER: P842994

CATALOG NUMBER: 24CZ2-30-UNV-B50

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	935.2	935.2	935.2	935.2	935.2
2.5°	936.0	936.0	931.8	936.0	936.9
5°	930.9	932.7	928.4	933.5	934.3
7.5°	925.8	925.8	923.3	928.4	929.3
10°	916.6	917.4	916.6	922.5	923.3
12.5°	904.8	906.4	907.3	913.2	914.0
15°	890.4	892.9	894.6	902.2	903.9
17.5°	874.3	876.8	881.0	889.5	891.2
20°	854.8	858.2	863.3	874.3	876.8
22.5°	833.8	837.1	845.6	855.7	859.9
25°	809.2	815.9	824.4	837.9	840.5
27.5°	784.6	790.6	801.6	815.9	819.4
30°	755.9	765.2	778.7	793.1	796.5
32.5°	728.0	737.3	753.4	768.7	772.8
35°	699.3	707.7	724.6	742.4	747.5
37.5°	666.3	677.3	695.9	713.6	718.7
40°	631.6	645.2	666.3	684.9	690.8
42.5°	598.6	613.0	634.2	654.5	661.2
45°	564.0	577.5	602.9	625.7	630.8
47.5°	528.4	543.7	570.7	593.5	602.0
50°	493.0	509.1	537.8	561.4	566.5
52.5°	457.4	474.3	504.8	530.2	532.7
55°	420.2	438.9	471.0	495.5	500.6
57.5°	386.4	402.5	437.1	462.5	468.4
60°	349.2	367.0	404.1	427.9	435.4
62.5°	313.7	332.3	371.2	394.9	401.6
65°	276.5	297.7	335.7	363.6	370.3
67.5°	244.4	264.7	305.2	332.3	339.0
70°	207.1	230.0	273.1	301.0	307.8
72.5°	175.0	198.7	241.9	268.9	279.0
75°	140.4	167.4	210.6	239.3	246.0
77.5°	106.6	137.8	181.7	203.8	203.8
80°	76.1	109.1	149.7	159.8	161.5
82.5°	49.9	82.0	110.7	109.9	109.9
85°	28.7	53.3	65.9	64.3	64.3
87.5°	11.0	22.0	23.6	23.6	22.8
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG





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







(END OF REPORT)