

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: 111P114

Luminaire Tested: **RCG-232**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-41-14  
Report Number: 111P114  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: RCG-232  
Description: RCG Recessed Lighting System  
(One piece housing)  
Light Source: Two-F32T8/35K - 2850 Lumens ea. - 32 Watts ea.  
Ballast/Driver: Triad-Utrad B232I120RH Electronic

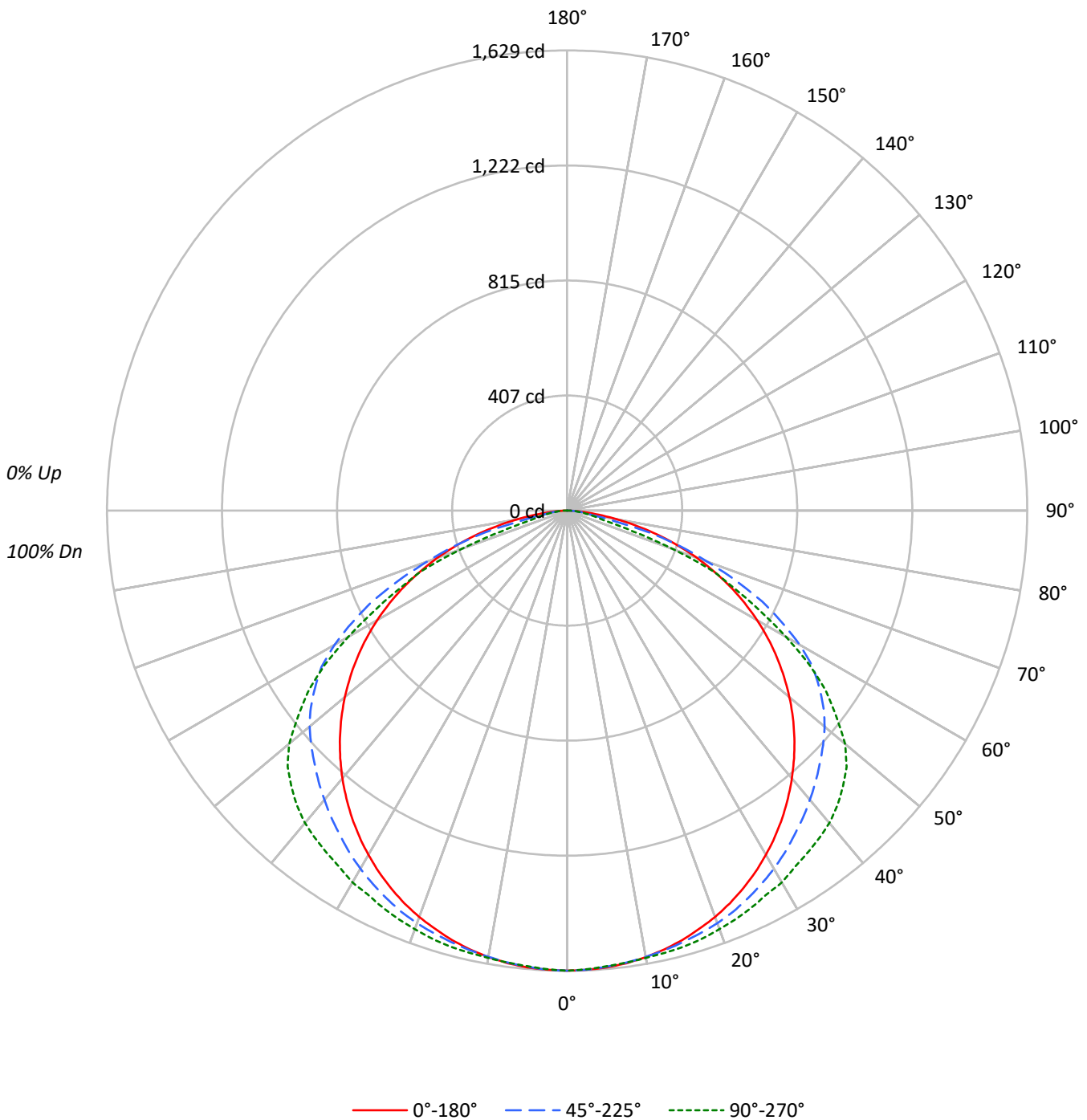
**Summary**

Lumens per Lamp: 2850 (2 lamps)  
Luminaire Lumens: 5127.8 lumens  
Efficiency: 90.0%  
Efficacy: 85.0 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.4 / 1.49  
Luminous Opening: Rectangular (W 0.92' x L: 3.92' x H: 0')  
CIE Type: Direct

Input Watts (W): 60.3  
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

TEST NUMBER: 111P114  
CATALOG NUMBER: RCG-232

### Luminous Intensity Polar Plot





TEST NUMBER: 111P114  
 CATALOG NUMBER: RCG-232

**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	0
RCR																		
0	107	107	107	107	105	105	105	105	100	100	100	96	96	96	92	92	92	90
1	98	94	90	87	96	92	88	85	88	85	83	84	82	80	81	79	78	76
2	89	82	75	70	87	80	74	69	77	72	68	74	70	66	71	68	65	63
3	81	71	64	58	79	70	63	58	67	61	57	65	60	56	62	58	55	53
4	74	63	55	49	72	62	54	48	59	53	48	57	52	47	55	51	46	45
5	68	56	48	42	66	55	47	41	53	46	41	51	45	41	50	44	40	38
6	62	50	42	36	61	49	42	36	48	41	36	46	40	35	45	39	35	33
7	58	45	37	32	56	45	37	32	43	36	31	42	36	31	41	35	31	29
8	54	41	33	28	52	41	33	28	39	33	28	38	32	28	37	32	27	26
9	50	38	30	25	49	37	30	25	36	30	25	35	29	25	34	29	25	23
10	47	35	28	23	46	34	27	23	33	27	23	33	27	22	32	26	22	21

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	4884	4884	4884
5°	4884	4878	4872
10°	4886	4883	4895
15°	4885	4910	4960
20°	4884	4958	5031
25°	4879	5008	5124
30°	4871	5068	5262
35°	4860	5131	5420
40°	4845	5232	5651
45°	4825	5363	5855
50°	4790	5550	5989
55°	4741	5692	5859
60°	4659	5702	5372
65°	4519	5405	4646
70°	4278	4602	3497
75°	3846	3521	1564
80°	3108	1519	1312
85°	1961	1273	1135



TEST NUMBER: 111P114  
 CATALOG NUMBER: RCG-232

**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	154.3	3.0	2.7	0°	1629	1629	1629	1629	1629	
10°-20°	447.8	8.7	7.9	5°	1623	1621	1621	1623	1619	154
20°-30°	698.0	13.6	12.2	15°	1574	1572	1582	1596	1598	444
30°-40°	879.7	17.2	15.4	25°	1475	1480	1514	1544	1549	680
40°-50°	973.7	19.0	17.1	35°	1328	1346	1402	1462	1481	831
50°-60°	929.2	18.1	16.3	45°	1138	1165	1265	1361	1381	877
60°-70°	690.2	13.5	12.1	55°	907	943	1089	1127	1121	810
70°-80°	302.4	5.9	5.3	65°	637	707	762	684	655	629
80°-90°	52.5	1.0	0.9	75°	332	385	304	165	135	351
90°-100°	0.0	0.0	0.0	85°	57	40	37	35	33	74
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	3
110°-120°	0.0	0.0	0.0	95°	0	0	0	0	0	0
120°-130°	0.0	0.0	0.0	105°	0	0	0	0	0	0
130°-140°	0.0	0.0	0.0	115°	0	0	0	0	0	0
140°-150°	0.0	0.0	0.0	125°	0	0	0	0	0	0
150°-160°	0.0	0.0	0.0	135°	0	0	0	0	0	0
160°-170°	0.0	0.0	0.0	145°	0	0	0	0	0	0
170°-180°	0.0	0.0	0.0	155°	0	0	0	0	0	0
0°-30°	1300.1	25.4	22.8	165°	0	0	0	0	0	0
0°-40°	2179.8	42.5	38.2	175°	0	0	0	0	0	0
0°-60°	4082.8	79.6	71.6	180°	0	0	0	0	0	0
0°-90°	5127.8	100.0	90.0							
90°-120°	0.0	0.0	0.0							
90°-150°	0.0	0.0	0.0							
90°-180°	0.0	0.0	0.0							
0°-180°	5127.8	100.0	90.0							



TEST NUMBER: 111P114  
 CATALOG NUMBER: RCG-232

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1629	1629	1629	1629	1629
2.5°	1627	1627	1627	1628	1625
5°	1623	1621	1621	1623	1619
7.5°	1616	1614	1614	1616	1614
10°	1605	1603	1604	1610	1608
12.5°	1591	1589	1594	1604	1603
15°	1574	1572	1582	1596	1598
17.5°	1553	1553	1569	1588	1589
20°	1531	1531	1554	1575	1577
22.5°	1505	1506	1537	1561	1564
25°	1475	1480	1514	1544	1549
27.5°	1443	1450	1490	1524	1531
30°	1407	1417	1464	1504	1520
32.5°	1369	1383	1435	1484	1498
35°	1328	1346	1402	1462	1481
37.5°	1284	1305	1371	1440	1464
40°	1238	1261	1337	1418	1444
42.5°	1189	1213	1302	1393	1416
45°	1138	1165	1265	1361	1381
47.5°	1084	1113	1229	1319	1342
50°	1027	1058	1190	1278	1284
52.5°	968	1000	1144	1211	1202
55°	907	943	1089	1127	1121
57.5°	843	886	1031	1041	1018
60°	777	826	951	932	896
62.5°	708	767	858	808	771
65°	637	707	762	684	655
67.5°	563	641	644	577	558
70°	488	564	525	461	399
72.5°	411	480	420	302	244
75°	332	385	304	165	135
77.5°	255	287	165	107	102
80°	180	194	88	79	76
82.5°	113	101	60	56	54
85°	57	40	37	35	33
87.5°	23	18	17	16	15
90°	0	0	0	0	0
92.5°	0	0	0	0	0
95°	0	0	0	0	0
97.5°	0	0	0	0	0
100°	0	0	0	0	0
102.5°	0	0	0	0	0
105°	0	0	0	0	0
107.5°	0	0	0	0	0
110°	0	0	0	0	0



TEST NUMBER: 111P114  
CATALOG NUMBER: RCG-232

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0	0	0	0	0
115°	0	0	0	0	0
117.5°	0	0	0	0	0
120°	0	0	0	0	0
122.5°	0	0	0	0	0
125°	0	0	0	0	0
127.5°	0	0	0	0	0
130°	0	0	0	0	0
132.5°	0	0	0	0	0
135°	0	0	0	0	0
137.5°	0	0	0	0	0
140°	0	0	0	0	0
142.5°	0	0	0	0	0
145°	0	0	0	0	0
147.5°	0	0	0	0	0
150°	0	0	0	0	0
152.5°	0	0	0	0	0
155°	0	0	0	0	0
157.5°	0	0	0	0	0
160°	0	0	0	0	0
162.5°	0	0	0	0	0
165°	0	0	0	0	0
167.5°	0	0	0	0	0
170°	0	0	0	0	0
172.5°	0	0	0	0	0
175°	0	0	0	0	0
177.5°	0	0	0	0	0
180°	0	0	0	0	0

(END OF REPORT)