

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: 111P109

Luminaire Tested: **RCG-SA-240**

Issue Date: 3/3/2020



**Test Information**

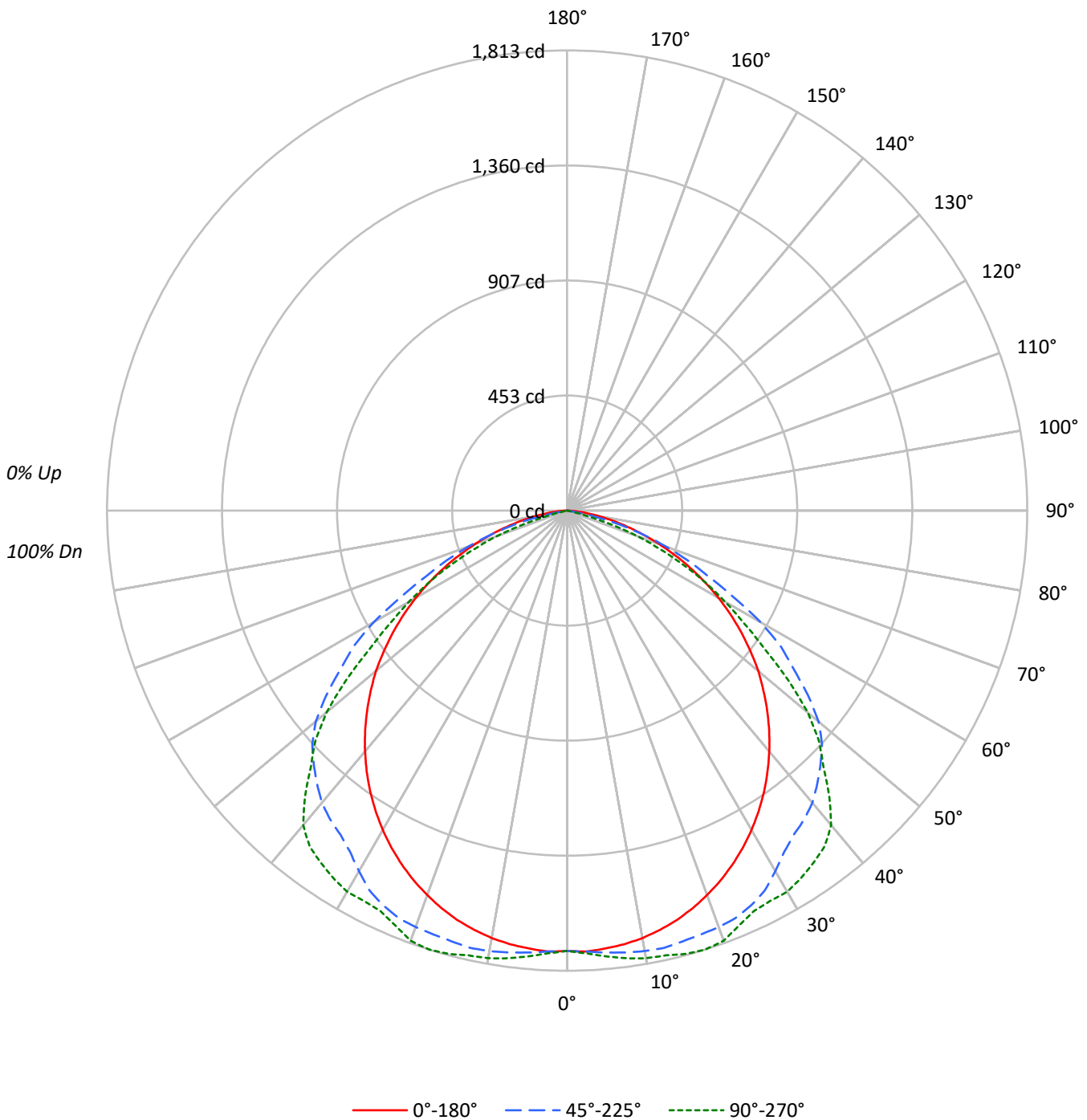
Test Method: LM-41-14  
Report Number: 111P109  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: RCG-SA-240  
Description: RCG Recessed Striplight with a specular aluminum reflector and white powder painted end plates.  
Light Source: Two-F40CW - 3150 Lumens ea. - 40 Watts ea.  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 3150 (2 lamps)  
Luminaire Lumens: 5175.3 lumens  
Efficiency: 82.1%  
Efficacy: 57.2 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.49 / 1.52  
Luminous Opening: Rectangular (W 0.92' x L: 3.92' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 90.4  
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				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	98	98	98	98	96	96	96	96	91	91	91	87	87	87	84	84	84	82
1	90	87	83	80	88	85	82	79	81	79	77	78	76	74	75	74	72	70
2	82	76	71	66	80	74	70	65	72	67	64	69	65	62	66	64	61	59
3	75	67	60	55	73	66	60	55	63	58	54	61	57	53	59	55	52	50
4	69	59	52	47	67	58	52	47	56	50	46	54	49	45	52	48	45	43
5	63	53	46	40	62	52	45	40	50	44	40	49	43	39	47	43	39	37
6	58	48	40	35	57	47	40	35	45	39	35	44	39	34	43	38	34	32
7	54	43	36	31	53	42	36	31	41	35	31	40	34	30	39	34	30	29
8	50	39	32	28	49	39	32	27	38	32	27	37	31	27	36	31	27	25
9	47	36	29	25	46	35	29	25	35	29	24	34	28	24	33	28	24	23
10	44	33	27	22	43	33	26	22	32	26	22	31	26	22	30	25	22	21

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

	0°	45°	90°
0°	5201	5201	5201
5°	5212	5260	5306
10°	5206	5364	5452
15°	5183	5453	5611
20°	5143	5570	5752
25°	5094	5676	5759
30°	5030	5677	6003
35°	4948	5702	6196
40°	4849	5882	6332
45°	4727	5986	6054
50°	4589	6031	5769
55°	4380	5697	4955
60°	4131	5282	4317
65°	3802	4363	3568
70°	3383	3611	2595
75°	2838	2502	892
80°	2210	570	52
85°	1513	241	69



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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	167.0	3.2	2.7	0°	1735	1735	1735	1735	1735	
10°-20°	494.9	9.6	7.9	5°	1732	1733	1748	1758	1763	165
20°-30°	774.9	15.0	12.3	15°	1670	1708	1757	1792	1808	471
30°-40°	973.7	18.8	15.5	25°	1540	1618	1716	1735	1741	709
40°-50°	1038.5	20.1	16.5	35°	1352	1469	1558	1665	1693	845
50°-60°	892.4	17.2	14.2	45°	1115	1258	1412	1453	1428	860
60°-70°	589.4	11.4	9.4	55°	838	990	1090	1022	948	749
70°-80°	222.5	4.3	3.5	65°	536	708	615	538	503	530
80°-90°	21.9	0.4	0.3	75°	245	306	216	115	77	263
90°-100°	0.0	0.0	0.0	85°	44	15	7	3	2	54
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°	1436.8	27.8	22.8	165°	0	0	0	0	0	0
0°-40°	2410.6	46.6	38.3	175°	0	0	0	0	0	0
0°-60°	4341.5	83.9	68.9	180°	0	0	0	0	0	0
0°-90°	5175.3	100.0	82.1							
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°	5175.3	100.0	82.1							



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1735	1735	1735	1735	1735
2.5°	1739	1734	1739	1741	1746
5°	1732	1733	1748	1758	1763
7.5°	1723	1732	1756	1771	1779
10°	1710	1728	1762	1784	1791
12.5°	1692	1720	1765	1784	1795
15°	1670	1708	1757	1792	1808
17.5°	1643	1692	1751	1801	1813
20°	1612	1673	1746	1795	1803
22.5°	1578	1649	1737	1775	1769
25°	1540	1618	1716	1735	1741
27.5°	1498	1582	1687	1710	1734
30°	1453	1546	1640	1702	1734
32.5°	1404	1508	1593	1692	1716
35°	1352	1469	1558	1665	1693
37.5°	1297	1426	1534	1637	1667
40°	1239	1377	1503	1605	1618
42.5°	1178	1322	1459	1546	1529
45°	1115	1258	1412	1453	1428
47.5°	1049	1183	1362	1351	1346
50°	984	1112	1293	1270	1237
52.5°	910	1048	1196	1156	1098
55°	838	990	1090	1022	948
57.5°	764	926	999	869	827
60°	689	856	881	750	720
62.5°	612	785	739	644	615
65°	536	708	615	538	503
67.5°	460	615	514	431	394
70°	386	514	412	326	296
72.5°	313	419	311	228	184
75°	245	306	216	115	77
77.5°	183	223	120	24	4
80°	128	143	33	6	3
82.5°	82	71	9	5	2
85°	44	15	7	3	2
87.5°	20	7	4	2	1
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



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**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)