

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: 111P110

Luminaire Tested: **RCG-240**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 111P110
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: RCG-240
Description: RCG Recessed Striplight
Light Source: Two-F40CW - 3150 Lumens ea. - 40 Watts ea.
Ballast/Driver: -

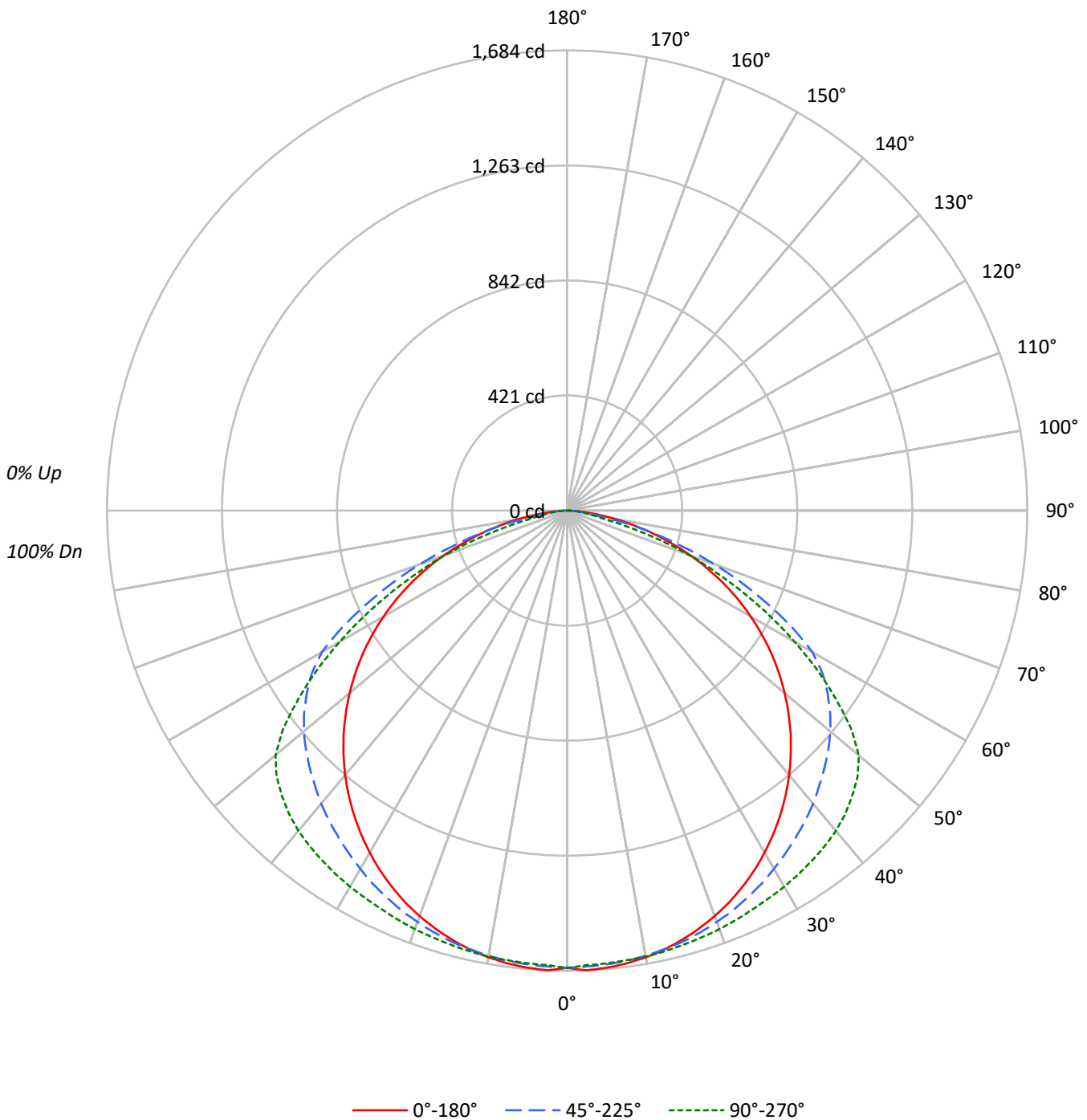
Summary

Lumens per Lamp: 3150 (2 lamps)
Luminaire Lumens: 5402.1 lumens
Efficiency: 85.7%
Efficacy: 60.6 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.43 / 1.51
Luminous Opening: Rectangular (W 0.92' x L: 3.92' x H: 0')
CIE Type: Direct

Input Watts (W): 89.1
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	102	102	102	102	100	100	100	100	95	95	95	91	91	91	87	87	87	86
1	93	89	86	82	91	87	84	81	84	81	78	80	78	76	77	75	74	72
2	85	77	72	67	82	76	70	66	73	68	64	70	66	63	67	64	61	60
3	77	68	61	55	75	66	60	54	64	58	53	61	57	52	59	55	52	50
4	70	60	52	46	68	58	51	46	56	50	45	54	49	44	52	48	44	42
5	64	53	45	39	62	52	45	39	50	44	39	48	43	38	47	42	38	36
6	59	48	40	34	58	47	39	34	45	39	34	44	38	33	42	37	33	31
7	55	43	35	30	53	42	35	30	41	34	29	40	34	29	38	33	29	27
8	51	39	32	26	49	38	31	26	37	31	26	36	30	26	35	30	26	24
9	47	36	29	24	46	35	28	24	34	28	23	33	27	23	32	27	23	22
10	44	33	26	21	43	32	26	21	32	25	21	31	25	21	30	25	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5016	5016	5016
5°	5053	5017	5005
10°	5053	5035	5044
15°	5047	5068	5106
20°	5038	5111	5200
25°	5025	5167	5322
30°	5002	5241	5501
35°	4977	5340	5720
40°	4947	5479	5988
45°	4905	5647	6258
50°	4846	5867	6497
55°	4772	6079	6272
60°	4653	6212	5762
65°	4483	5760	5051
70°	4216	5014	4155
75°	3788	3938	2618
80°	3125	2158	1554
85°	2029	1445	1307



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	158.9	2.9	2.5	0°	1673	1673	1673	1673	1673	
10°-20°	461.9	8.6	7.3	5°	1679	1667	1667	1669	1663	160
20°-30°	721.7	13.4	11.5	15°	1626	1621	1633	1646	1645	459
30°-40°	915.1	16.9	14.5	25°	1519	1525	1562	1601	1609	700
40°-50°	1020.8	18.9	16.2	35°	1360	1382	1459	1539	1563	851
50°-60°	983.6	18.2	15.6	45°	1157	1198	1332	1446	1476	892
60°-70°	733.7	13.6	11.6	55°	913	981	1163	1223	1200	815
70°-80°	346.8	6.4	5.5	65°	632	744	812	744	712	624
80°-90°	59.6	1.1	0.9	75°	327	416	340	258	226	346
90°-100°	0.0	0.0	0.0	85°	59	49	42	39	38	75
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°	1342.5	24.9	21.3	165°	0	0	0	0	0	0
0°-40°	2257.6	41.8	35.8	175°	0	0	0	0	0	0
0°-60°	4262.0	78.9	67.7	180°	0	0	0	0	0	0
0°-90°	5402.1	100.0	85.7							
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°	5402.1	100.0	85.7							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1673	1673	1673	1673	1673
2.5°	1684	1671	1670	1670	1665
5°	1679	1667	1667	1669	1663
7.5°	1671	1660	1662	1665	1660
10°	1660	1650	1654	1660	1657
12.5°	1645	1637	1644	1654	1652
15°	1626	1621	1633	1646	1645
17.5°	1604	1602	1619	1637	1638
20°	1579	1579	1602	1627	1630
22.5°	1551	1553	1584	1615	1620
25°	1519	1525	1562	1601	1609
27.5°	1484	1493	1540	1587	1599
30°	1445	1458	1514	1573	1589
32.5°	1404	1421	1487	1557	1577
35°	1360	1382	1459	1539	1563
37.5°	1313	1340	1431	1520	1548
40°	1264	1294	1400	1500	1530
42.5°	1211	1248	1366	1476	1506
45°	1157	1198	1332	1446	1476
47.5°	1099	1144	1296	1410	1442
50°	1039	1091	1258	1371	1393
52.5°	977	1037	1213	1314	1309
55°	913	981	1163	1223	1200
57.5°	845	924	1108	1110	1085
60°	776	865	1036	992	961
62.5°	705	805	930	868	838
65°	632	744	812	744	712
67.5°	557	678	693	619	589
70°	481	607	572	498	474
72.5°	403	525	452	384	352
75°	327	416	340	258	226
77.5°	252	310	231	149	131
80°	181	210	125	93	90
82.5°	115	120	69	64	61
85°	59	49	42	39	38
87.5°	24	20	18	17	16
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)