

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: 111P116

Luminaire Tested: **RCG-332**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 111P116
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: RCG-332
Description: RCG Recessed Lighting System
Light Source: Three-FO32T8/35K - 2850 Lumens ea. - 32 Watts ea.
Ballast/Driver: Triad B332I120RH Electronic: L.O.B.F. = 88.9

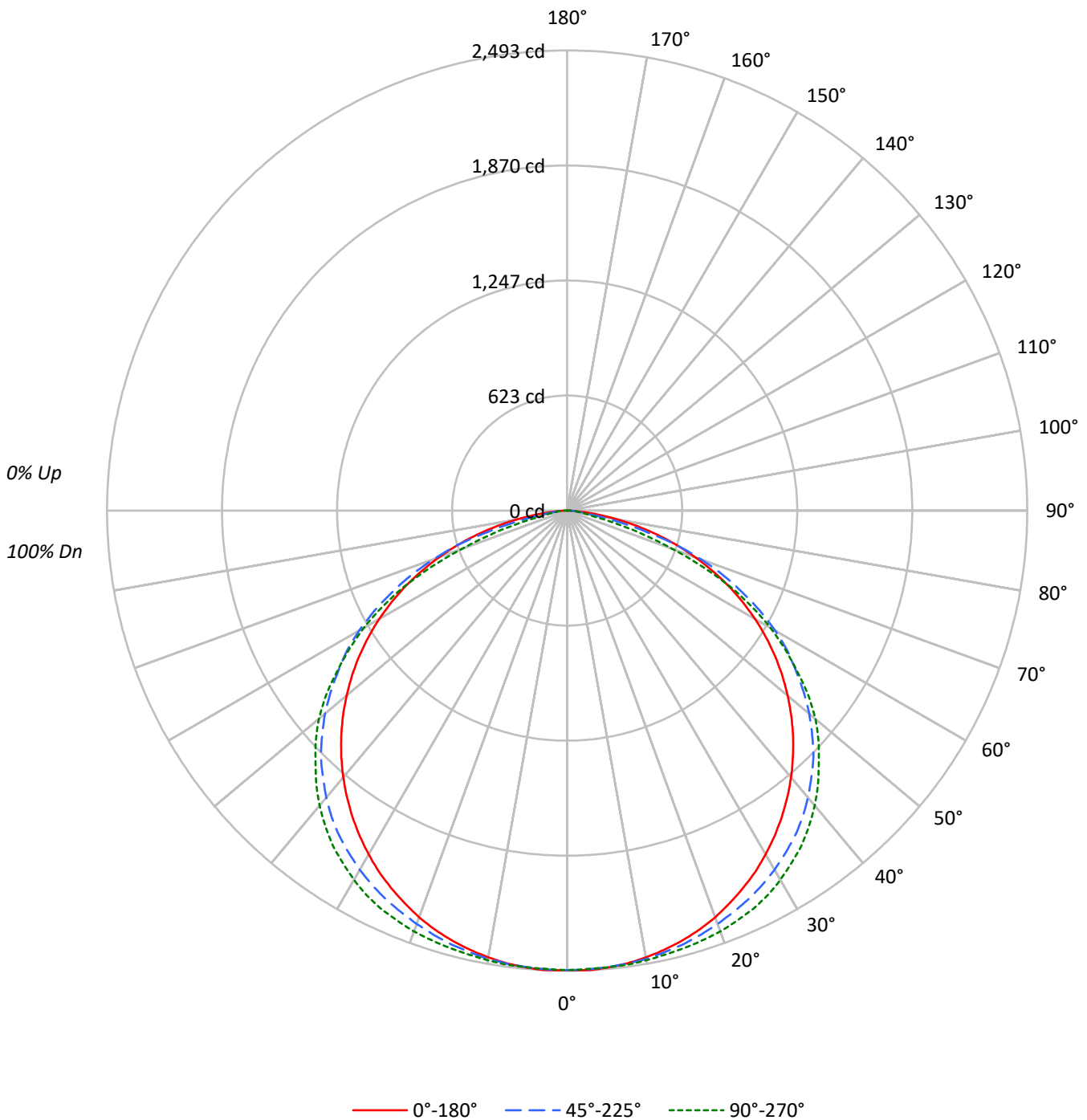
Summary

Lumens per Lamp: 2850 (3 lamps)
Luminaire Lumens: 7616.7 lumens
Efficiency: 89.1%
Efficacy: 89.0 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.37 / 1.46
Luminous Opening: Rectangular (W 0.92' x L: 3.94' x H: 0')
CIE Type: Direct

Input Watts (W): 85.6
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	106	106	106	106	104	104	104	104	99	99	99	95	95	95	91	91	91	89
1	97	93	89	86	95	91	88	85	87	84	82	84	81	79	81	79	77	75
2	88	81	75	70	86	79	74	69	76	71	67	73	69	66	71	67	64	63
3	80	71	64	58	78	70	63	57	67	61	56	64	59	55	62	58	54	52
4	73	63	55	49	71	61	54	48	59	53	48	57	52	47	55	50	46	45
5	67	56	48	42	65	55	47	42	53	46	41	51	45	41	50	44	40	38
6	62	50	42	36	60	49	42	36	48	41	36	46	40	35	45	39	35	33
7	58	45	37	32	56	45	37	32	43	36	32	42	36	31	41	35	31	29
8	53	41	34	28	52	41	33	28	39	33	28	38	32	28	37	32	28	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	28	23	33	27	23	33	27	23	32	26	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7425	7425	7425
5°	7442	7433	7436
10°	7443	7467	7492
15°	7443	7508	7573
20°	7442	7562	7702
25°	7423	7644	7838
30°	7407	7737	7954
35°	7379	7834	8064
40°	7346	7899	8124
45°	7300	7958	8131
50°	7237	7943	8147
55°	7149	7866	7923
60°	7014	7765	7598
65°	6795	7381	6880
70°	6426	6714	5284
75°	5830	5116	3226
80°	4723	2593	1717
85°	2908	1677	1505



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	236.6	3.1	2.8	0°	2490	2490	2490	2490	2490	
10°-20°	687.6	9.0	8.0	5°	2486	2480	2483	2489	2484	236
20°-30°	1070.8	14.1	12.5	15°	2411	2414	2432	2451	2453	681
30°-40°	1335.1	17.5	15.6	25°	2256	2271	2323	2369	2382	1040
40°-50°	1432.2	18.8	16.8	35°	2027	2060	2152	2204	2215	1268
50°-60°	1327.6	17.4	15.5	45°	1731	1790	1887	1927	1928	1335
60°-70°	993.3	13.0	11.6	55°	1375	1446	1513	1543	1524	1228
70°-80°	458.2	6.0	5.4	65°	963	1018	1046	1007	975	951
80°-90°	75.3	1.0	0.9	75°	506	538	444	335	280	533
90°-100°	0.0	0.0	0.0	85°	85	60	49	46	44	110
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	4
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°	1995.0	26.2	23.3	165°	0	0	0	0	0	0
0°-40°	3330.1	43.7	38.9	175°	0	0	0	0	0	0
0°-60°	6089.9	80.0	71.2	180°	0	0	0	0	0	0
0°-90°	7616.7	100.0	89.1							
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°	7616.7	100.0	89.1							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2490	2490	2490	2490	2490
2.5°	2493	2486	2488	2491	2486
5°	2486	2480	2483	2489	2484
7.5°	2475	2470	2476	2484	2482
10°	2458	2456	2466	2476	2474
12.5°	2437	2438	2450	2464	2463
15°	2411	2414	2432	2451	2453
17.5°	2381	2385	2409	2436	2441
20°	2345	2353	2383	2420	2427
22.5°	2302	2314	2354	2399	2405
25°	2256	2271	2323	2369	2382
27.5°	2207	2225	2288	2341	2351
30°	2151	2174	2247	2303	2310
32.5°	2091	2119	2200	2256	2263
35°	2027	2060	2152	2204	2215
37.5°	1959	1997	2095	2149	2153
40°	1887	1931	2029	2080	2087
42.5°	1811	1863	1959	2008	2012
45°	1731	1790	1887	1927	1928
47.5°	1647	1709	1801	1838	1848
50°	1560	1625	1712	1755	1756
52.5°	1469	1539	1615	1656	1648
55°	1375	1446	1513	1543	1524
57.5°	1277	1347	1415	1416	1400
60°	1176	1242	1302	1290	1274
62.5°	1071	1134	1177	1158	1128
65°	963	1018	1046	1007	975
67.5°	851	897	915	854	794
70°	737	776	770	663	606
72.5°	622	662	622	484	438
75°	506	538	444	335	280
77.5°	389	416	290	175	143
80°	275	291	151	105	100
82.5°	171	156	80	73	70
85°	85	60	49	46	44
87.5°	26	24	23	21	20
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)