

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: 111P108

Luminaire Tested: **RCG-SS-240**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 111P108
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: RCG-SS-240
Description: RCG Recessed Striplight with a Silver
Steel reflector.
Light Source: Two-F40CW - 3150 Lumens ea. - 40 Watts ea.
Ballast/Driver: -

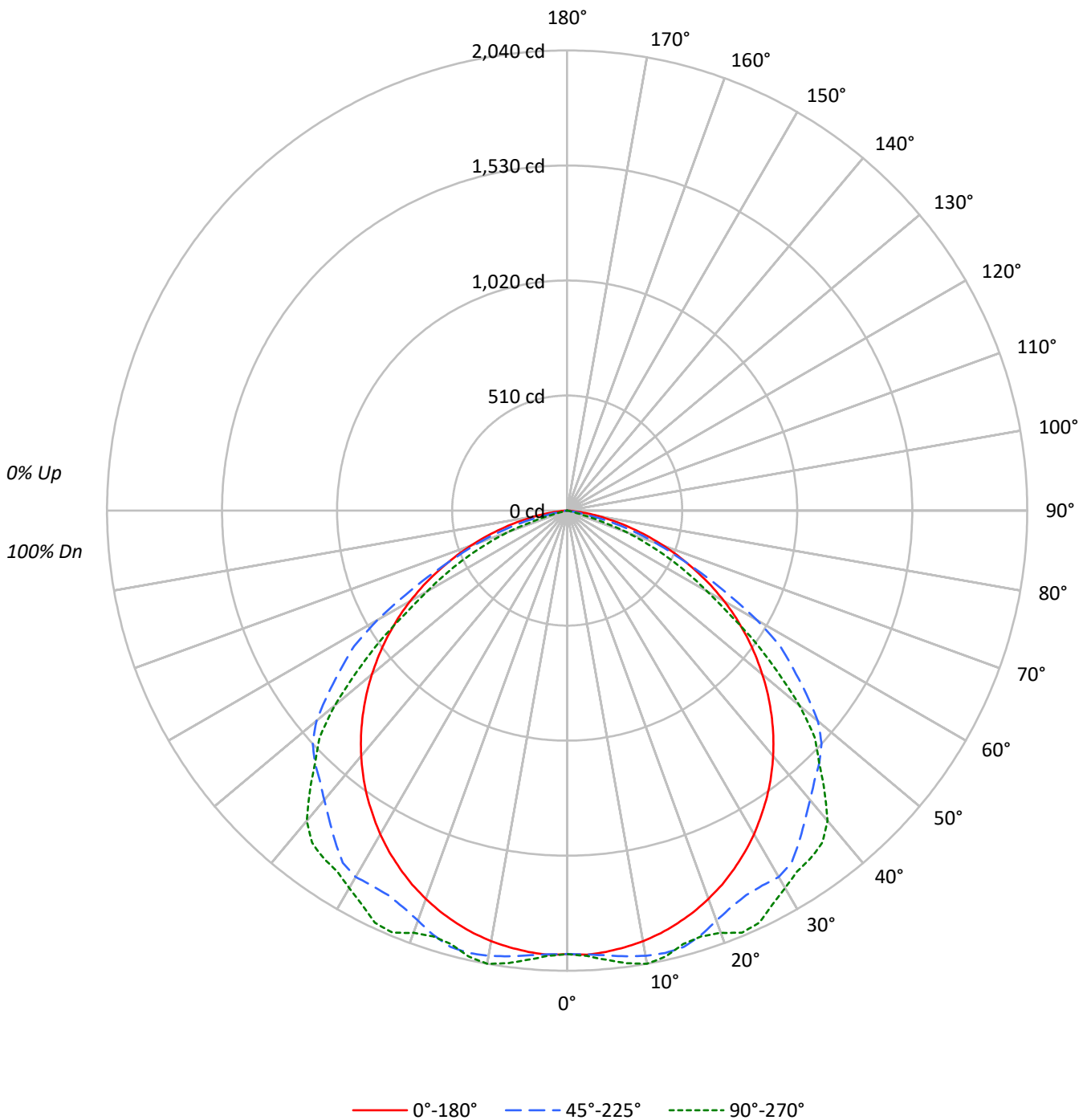
Summary

Lumens per Lamp: 3150 (2 lamps)
Luminaire Lumens: 5761.8 lumens
Efficiency: 91.5%
Efficacy: 63.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.46 / 1.51
Luminous Opening: Rectangular (W 0.92' x L: 3.92' x H: 0')
CIE Type: Direct

Input Watts (W): 90.2
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	109	109	109	109	106	106	106	106	102	102	102	97	97	97	93	93	93	91
1	101	97	93	90	98	95	91	88	91	88	86	87	85	83	84	82	81	79
2	92	85	79	74	89	83	78	73	80	75	72	77	73	70	74	71	68	66
3	84	75	68	62	82	73	67	61	71	65	60	68	63	59	66	62	58	56
4	77	66	59	53	75	65	58	52	63	57	52	61	55	51	59	54	50	48
5	71	59	51	45	69	58	51	45	56	50	45	54	49	44	53	48	44	42
6	65	53	45	40	63	52	45	39	51	44	39	49	43	39	48	42	38	36
7	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	32
8	56	44	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30	29
9	52	40	33	28	51	40	33	28	39	32	28	38	32	27	37	31	27	26
10	49	37	30	25	48	37	30	25	36	29	25	35	29	25	34	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5894	5894	5894
5°	5910	5956	6016
10°	5900	6101	6210
15°	5878	6214	6173
20°	5845	6170	6355
25°	5795	6219	6669
30°	5736	6491	6688
35°	5658	6562	6888
40°	5561	6555	7029
45°	5431	6703	6695
50°	5270	6767	6273
55°	5075	6398	5321
60°	4821	5822	4293
65°	4455	4646	3511
70°	3979	3655	2463
75°	3313	2479	625
80°	2400	293	35
85°	1170	69	34



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	189.5	3.3	3.0	0°	1966	1966	1966	1966	1966	
10°-20°	556.8	9.7	8.8	5°	1964	1965	1979	1993	1999	187
20°-30°	876.2	15.2	13.9	15°	1894	1943	2002	1998	1989	534
30°-40°	1094.8	19.0	17.4	25°	1752	1852	1880	2004	2016	807
40°-50°	1165.7	20.2	18.5	35°	1546	1634	1793	1846	1882	966
50°-60°	994.6	17.3	15.8	45°	1281	1431	1581	1609	1579	988
60°-70°	636.8	11.1	10.1	55°	971	1140	1224	1089	1018	867
70°-80°	229.8	4.0	3.6	65°	628	824	655	535	495	622
80°-90°	17.6	0.3	0.3	75°	286	339	214	94	54	305
90°-100°	0.0	0.0	0.0	85°	34	5	2	2	1	51
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	1
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°	1622.5	28.2	25.8	165°	0	0	0	0	0	0
0°-40°	2717.3	47.2	43.1	175°	0	0	0	0	0	0
0°-60°	4877.6	84.7	77.4	180°	0	0	0	0	0	0
0°-90°	5761.8	100.0	91.5							
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°	5761.8	100.0	91.5							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1966	1966	1966	1966	1966
2.5°	1971	1966	1969	1972	1976
5°	1964	1965	1979	1993	1999
7.5°	1953	1962	1993	2015	2024
10°	1938	1959	2004	2032	2040
12.5°	1919	1952	2009	2025	2024
15°	1894	1943	2002	1998	1989
17.5°	1865	1929	1973	1970	1979
20°	1832	1909	1934	1965	1992
22.5°	1795	1884	1902	1988	2025
25°	1752	1852	1880	2004	2016
27.5°	1707	1807	1874	1974	1970
30°	1657	1755	1875	1924	1932
32.5°	1602	1697	1851	1882	1897
35°	1546	1634	1793	1846	1882
37.5°	1485	1579	1731	1822	1857
40°	1421	1526	1675	1789	1796
42.5°	1353	1474	1623	1718	1689
45°	1281	1431	1581	1609	1579
47.5°	1207	1380	1530	1500	1488
50°	1130	1315	1451	1403	1345
52.5°	1051	1227	1337	1258	1176
55°	971	1140	1224	1089	1018
57.5°	889	1058	1120	937	849
60°	804	981	971	770	716
62.5°	718	907	806	645	606
65°	628	824	655	535	495
67.5°	541	713	521	424	383
70°	454	602	417	319	281
72.5°	368	479	311	209	158
75°	286	339	214	94	54
77.5°	209	231	103	11	2
80°	139	141	17	4	2
82.5°	80	60	4	3	1
85°	34	5	2	2	1
87.5°	6	2	2	1	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)