

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: P273790

Luminaire Tested: **4RCG-4-100D-L930**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P273790
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1804-709-7-R2)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4RCG-4-100D-L930
Description: RCG SERIES DIRECT RECESSED LED LUMINAIRE WITH FROST FLUSH LENS
Light Source: (168) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

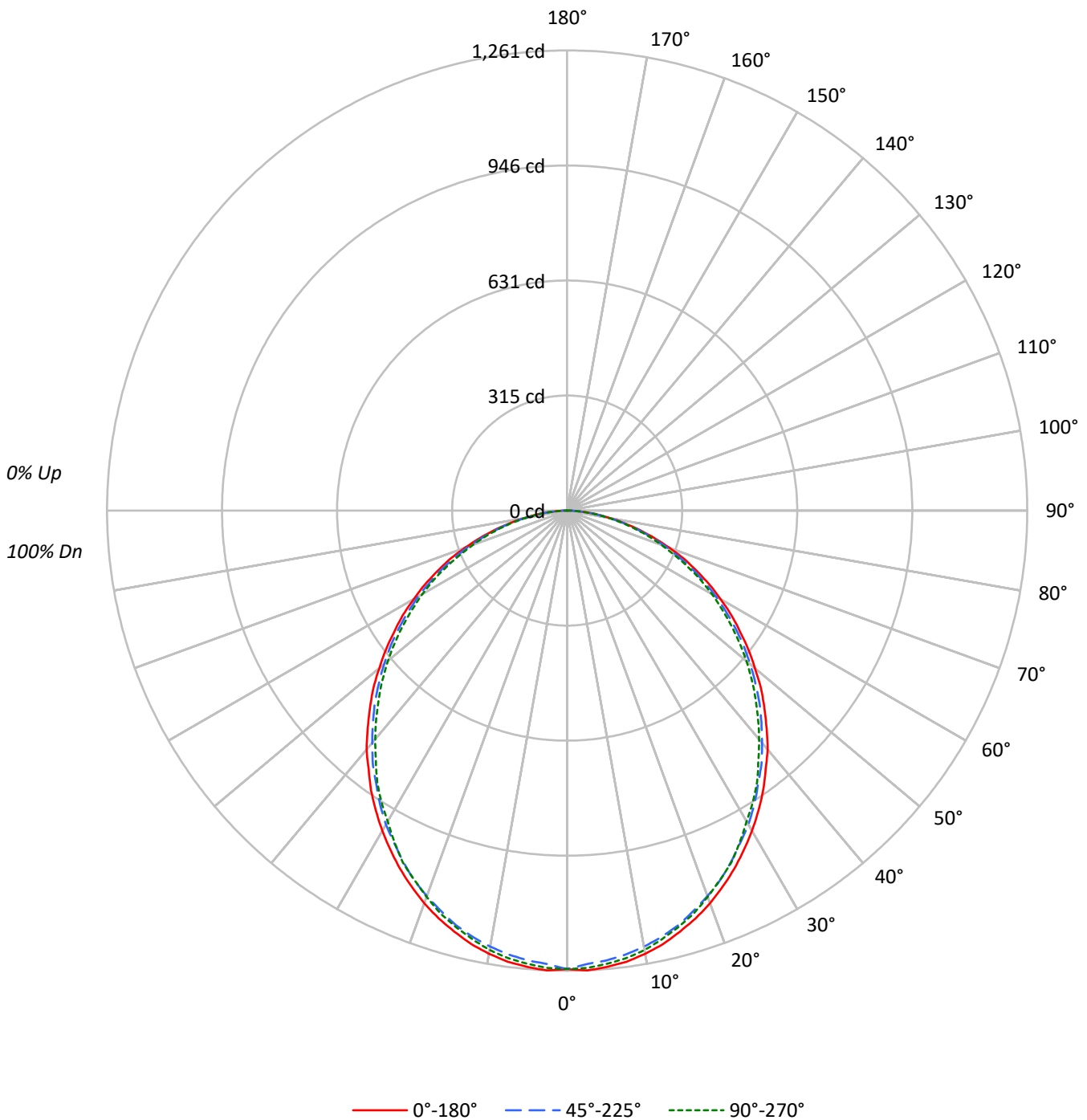
Lumens per Lamp: N/A
Luminaire Lumens: 3241.6 lumens
Efficiency: N/A
Efficacy: 94.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.3
Luminous Opening: Rectangular (W 0.23' x L: 3.88' x H: 0')
CIE Type: Direct

Input Watts (W): 34.4
Input Voltage (V): 120
Input Current (A_{in}): 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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CATALOG NUMBER: 4RCG-4-100D-L930

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	81	76	82	78	74	79	76	73	70
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39
7	66	52	44	38	64	51	43	37	50	43	37	48	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	52	40	33	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15227	15227	15227
5°	15273	15055	15170
10°	15177	14932	15049
15°	14988	14765	14818
20°	14771	14501	14528
25°	14488	14209	14237
30°	14180	13901	13770
35°	13859	13504	13426
40°	13527	13146	12948
45°	13093	12769	12519
50°	12665	12348	12091
55°	12221	11913	11602
60°	11760	11430	11098
65°	11237	10819	10457
70°	10543	10100	9728
75°	9666	9273	8978
80°	8481	8188	7902
85°	7135	6995	6411



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.3	3.6
10°-20°	333.7	10.3
20°-30°	492.2	15.2
30°-40°	574.3	17.7
40°-50°	576.2	17.8
50°-60°	504.8	15.6
60°-70°	374.2	11.5
70°-80°	210.5	6.5
80°-90°	57.4	1.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	944.2	29.1
0°-40°	1518.5	46.8
0°-60°	2599.5	80.2
0°-90°	3241.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3241.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1256	1256	1256	1256	1256	
5°	1255	1251	1237	1250	1247	119
15°	1194	1191	1177	1183	1181	337
25°	1083	1077	1062	1066	1064	499
35°	937	929	913	909	907	585
45°	764	761	745	736	730	590
55°	578	578	564	553	549	518
65°	392	388	377	368	365	388
75°	206	202	198	195	192	218
85°	51	51	50	48	46	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1256.2	1256.2	1256.2	1256.2	1256.2
2.5°	1261.4	1257.2	1243.6	1255.2	1254.1
5°	1255.2	1251.0	1237.3	1249.9	1246.8
7.5°	1246.8	1241.5	1226.9	1238.4	1237.3
10°	1233.1	1227.9	1213.2	1223.7	1222.7
12.5°	1216.4	1211.1	1196.5	1204.9	1202.8
15°	1194.4	1191.2	1176.6	1182.9	1180.8
17.5°	1171.3	1166.1	1150.4	1156.7	1156.7
20°	1145.1	1139.9	1124.2	1130.5	1126.3
22.5°	1114.8	1108.5	1095.9	1099.0	1094.9
25°	1083.3	1077.0	1062.4	1065.5	1064.5
27.5°	1048.8	1042.5	1026.8	1026.8	1024.7
30°	1013.1	1007.9	993.2	989.0	983.8
32.5°	975.4	968.1	954.5	951.3	947.1
35°	936.6	929.3	912.6	909.4	907.3
37.5°	893.7	888.5	874.8	866.5	861.2
40°	854.9	846.5	830.8	823.5	818.3
42.5°	808.8	804.6	787.9	780.5	774.3
45°	763.8	760.6	744.9	736.5	730.3
47.5°	720.8	715.6	699.9	689.4	686.2
50°	671.6	668.4	654.8	645.4	641.2
52.5°	626.5	623.4	609.8	599.3	595.1
55°	578.3	578.3	563.7	553.2	549.0
57.5°	534.3	530.1	516.5	508.1	502.9
60°	485.1	481.9	471.5	459.9	457.8
62.5°	440.0	435.8	423.3	414.9	412.8
65°	391.8	387.7	377.2	367.7	364.6
67.5°	346.8	339.5	331.1	322.7	318.5
70°	297.5	293.4	285.0	278.7	274.5
72.5°	250.4	246.2	241.0	235.7	233.6
75°	206.4	202.2	198.0	194.9	191.7
77.5°	162.4	160.3	157.2	153.0	153.0
80°	121.5	119.4	117.3	114.2	113.2
82.5°	84.9	83.8	81.7	80.7	80.7
85°	51.3	51.3	50.3	48.2	46.1
87.5°	23.0	21.0	21.0	18.9	18.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)