

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: P273796

Luminaire Tested: **4RCG-4-100D-L940**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P273796
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-L940
Description: RCG SERIES DIRECT RECESSED LED LUMINAIRE WITH FROST FLUSH LENS
Light Source: (168) 4000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

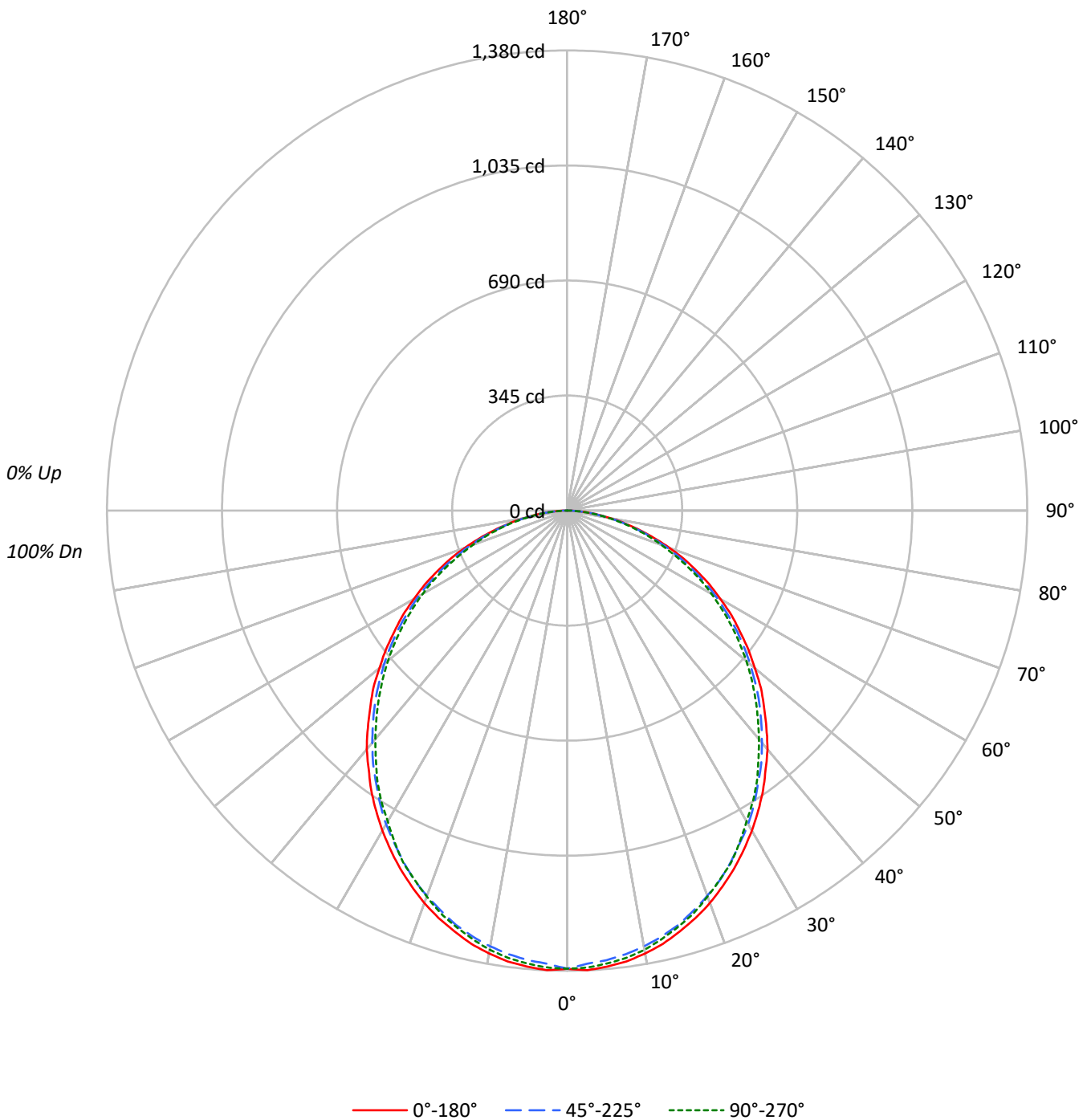
Lumens per Lamp: N/A
Luminaire Lumens: 3545.4 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.3
Luminous Opening: Rectangular (W 0.23' x L: 3.88' x H: 0')
CIE Type: Direct

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-L940

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°	16653	16653	16653
5°	16704	16466	16592
10°	16600	16333	16460
15°	16393	16148	16206
20°	16156	15859	15889
25°	15847	15540	15570
30°	15509	15204	15060
35°	15158	14769	14683
40°	14796	14378	14160
45°	14320	13966	13691
50°	13851	13506	13225
55°	13366	13028	12690
60°	12863	12502	12141
65°	12293	11831	11438
70°	11532	11047	10639
75°	10570	10144	9821
80°	9277	8956	8642
85°	7802	7649	7009



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.4	3.6
10°-20°	365.0	10.3
20°-30°	538.4	15.2
30°-40°	628.1	17.7
40°-50°	630.2	17.8
50°-60°	552.1	15.6
60°-70°	409.3	11.5
70°-80°	230.2	6.5
80°-90°	62.7	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°	1032.7	29.1
0°-40°	1660.9	46.8
0°-60°	2843.2	80.2
0°-90°	3545.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3545.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1374	1374	1374	1374	1374	
5°	1373	1368	1353	1367	1364	130
15°	1306	1303	1287	1294	1291	368
25°	1185	1178	1162	1165	1164	546
35°	1024	1016	998	995	992	640
45°	835	832	815	806	799	645
55°	632	632	616	605	600	567
65°	429	424	412	402	399	425
75°	226	221	217	213	210	239
85°	56	56	55	53	50	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1373.9	1373.9	1373.9	1373.9	1373.9
2.5°	1379.7	1375.1	1360.2	1372.8	1371.6
5°	1372.8	1368.2	1353.3	1367.1	1363.6
7.5°	1363.6	1357.9	1341.8	1354.5	1353.3
10°	1348.7	1343.0	1327.0	1338.4	1337.3
12.5°	1330.4	1324.7	1308.6	1317.8	1315.5
15°	1306.3	1302.9	1286.8	1293.7	1291.4
17.5°	1281.1	1275.4	1258.2	1265.1	1265.1
20°	1252.5	1246.7	1229.5	1236.4	1231.8
22.5°	1219.2	1212.4	1198.6	1202.0	1197.5
25°	1184.9	1178.0	1161.9	1165.4	1164.2
27.5°	1147.0	1140.2	1123.0	1123.0	1120.7
30°	1108.1	1102.4	1086.3	1081.7	1076.0
32.5°	1066.8	1058.8	1043.9	1040.5	1035.9
35°	1024.4	1016.4	998.1	994.6	992.3
37.5°	977.5	971.7	956.8	947.7	941.9
40°	935.1	925.9	908.7	900.7	894.9
42.5°	884.6	880.0	861.7	853.7	846.8
45°	835.4	831.9	814.7	805.6	798.7
47.5°	788.4	782.6	765.5	754.0	750.6
50°	734.5	731.1	716.2	705.9	701.3
52.5°	685.2	681.8	666.9	655.5	650.9
55°	632.5	632.5	616.5	605.0	600.5
57.5°	584.4	579.8	564.9	555.8	550.0
60°	530.6	527.1	515.7	503.0	500.8
62.5°	481.3	476.7	462.9	453.8	451.5
65°	428.6	424.0	412.5	402.2	398.8
67.5°	379.3	371.3	362.1	352.9	348.4
70°	325.4	320.9	311.7	304.8	300.2
72.5°	273.9	269.3	263.6	257.8	255.5
75°	225.7	221.2	216.6	213.1	209.7
77.5°	177.6	175.3	171.9	167.3	167.3
80°	132.9	130.6	128.3	124.9	123.8
82.5°	92.8	91.7	89.4	88.2	88.2
85°	56.1	56.1	55.0	52.7	50.4
87.5°	25.2	22.9	22.9	20.6	20.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)