

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: P273793

Luminaire Tested: **4RCG-4-100D-L935**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P273793
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-L935
Description: RCG SERIES DIRECT RECESSED LED LUMINAIRE WITH FROST FLUSH LENS
Light Source: (168) 3500K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

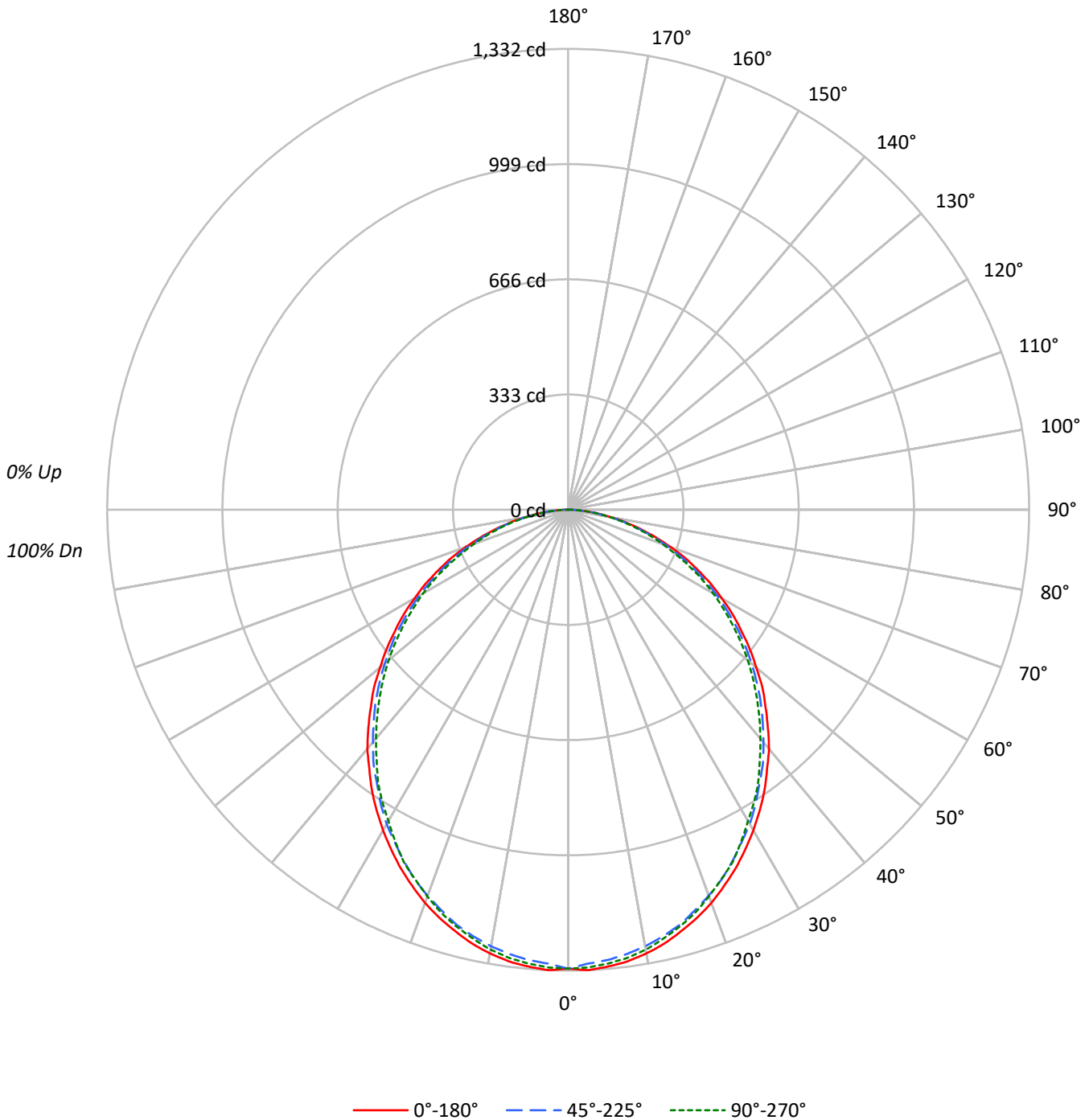
Lumens per Lamp: N/A
Luminaire Lumens: 3423.2 lumens
Efficiency: N/A
Efficacy: 99.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.3
Luminous Opening: Rectangular (W 0.23' x L: 3.88' x H: 0')
CIE Type: Direct

Input Watts (W): 34.4
Input Voltage (V): 120
Input Current (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	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°	16080	16080	16080
5°	16128	15899	16021
10°	16029	15769	15892
15°	15828	15592	15648
20°	15599	15314	15342
25°	15302	15005	15034
30°	14975	14681	14541
35°	14637	14260	14179
40°	14285	13883	13673
45°	13827	13486	13220
50°	13374	13040	12768
55°	12908	12580	12253
60°	12419	12070	11721
65°	11868	11424	11042
70°	11135	10664	10274
75°	10210	9793	9484
80°	8956	8649	8341
85°	7538	7385	6773



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.9	3.6
10°-20°	352.4	10.3
20°-30°	519.8	15.2
30°-40°	606.5	17.7
40°-50°	608.5	17.8
50°-60°	533.1	15.6
60°-70°	395.2	11.5
70°-80°	222.2	6.5
80°-90°	60.6	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°	997.1	29.1
0°-40°	1603.7	46.8
0°-60°	2745.2	80.2
0°-90°	3423.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3423.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1327	1327	1327	1327	1327	
5°	1326	1321	1307	1320	1317	126
15°	1261	1258	1242	1249	1247	356
25°	1144	1137	1122	1125	1124	527
35°	989	981	964	960	958	618
45°	807	803	787	778	771	623
55°	611	611	595	584	580	547
65°	414	409	398	388	385	410
75°	218	214	209	206	202	231
85°	54	54	53	51	49	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1326.6	1326.6	1326.6	1326.6	1326.6
2.5°	1332.1	1327.7	1313.3	1325.5	1324.4
5°	1325.5	1321.1	1306.7	1320.0	1316.7
7.5°	1316.7	1311.1	1295.6	1307.8	1306.7
10°	1302.3	1296.7	1281.2	1292.3	1291.2
12.5°	1284.6	1279.0	1263.5	1272.4	1270.2
15°	1261.3	1258.0	1242.5	1249.2	1247.0
17.5°	1237.0	1231.5	1214.9	1221.5	1221.5
20°	1209.3	1203.8	1187.2	1193.8	1189.4
22.5°	1177.2	1170.6	1157.3	1160.6	1156.2
25°	1144.1	1137.4	1121.9	1125.2	1124.1
27.5°	1107.5	1100.9	1084.3	1084.3	1082.1
30°	1069.9	1064.4	1048.9	1044.5	1038.9
32.5°	1030.1	1022.3	1008.0	1004.6	1000.2
35°	989.2	981.4	963.7	960.4	958.2
37.5°	943.8	938.3	923.9	915.0	909.5
40°	902.8	894.0	877.4	869.7	864.1
42.5°	854.2	849.7	832.0	824.3	817.7
45°	806.6	803.3	786.7	777.8	771.2
47.5°	761.2	755.7	739.1	728.0	724.7
50°	709.2	705.9	691.5	681.6	677.1
52.5°	661.6	658.3	643.9	632.9	628.5
55°	610.8	610.8	595.3	584.2	579.8
57.5°	564.3	559.9	545.5	536.6	531.1
60°	512.3	509.0	497.9	485.7	483.5
62.5°	464.7	460.3	447.0	438.1	435.9
65°	413.8	409.4	398.3	388.4	385.0
67.5°	366.2	358.5	349.6	340.8	336.4
70°	314.2	309.8	300.9	294.3	289.9
72.5°	264.4	260.0	254.5	248.9	246.7
75°	218.0	213.5	209.1	205.8	202.5
77.5°	171.5	169.3	166.0	161.5	161.5
80°	128.3	126.1	123.9	120.6	119.5
82.5°	89.6	88.5	86.3	85.2	85.2
85°	54.2	54.2	53.1	50.9	48.7
87.5°	24.3	22.1	22.1	19.9	19.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)