

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: P273784

Luminaire Tested: **4RCG-4-100D-L840**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P273784
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-L840
Description: RCG SERIES DIRECT RECESSED LED LUMINAIRE WITH FROST FLUSH LENS
Light Source: (168) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

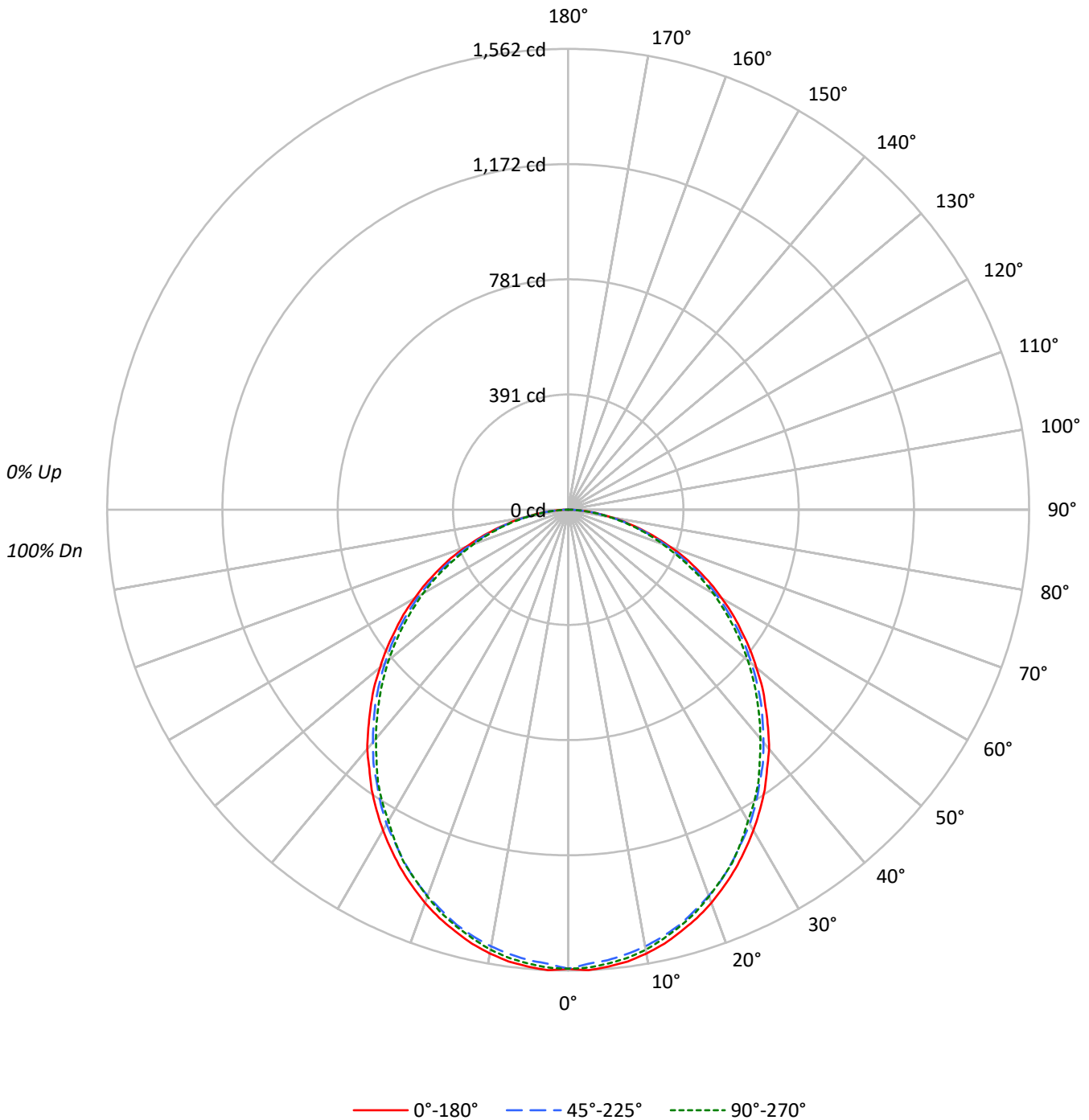
Lumens per Lamp: N/A
Luminaire Lumens: 4015.2 lumens
Efficiency: N/A
Efficacy: 116.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.3
Luminous Opening: Rectangular (W 0.23' x L: 3.88' x H: 0')
CIE Type: Direct

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°	18861	18861	18861
5°	18917	18648	18790
10°	18800	18497	18641
15°	18565	18289	18353
20°	18296	17962	17996
25°	17947	17599	17634
30°	17564	17220	17056
35°	17168	16725	16629
40°	16757	16284	16037
45°	16216	15817	15505
50°	15685	15295	14976
55°	15137	14755	14370
60°	14567	14158	13748
65°	13922	13400	12952
70°	13063	12510	12050
75°	11975	11488	11123
80°	10505	10142	9786
85°	8845	8664	7941



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.5	3.6
10°-20°	413.3	10.3
20°-30°	609.7	15.2
30°-40°	711.4	17.7
40°-50°	713.7	17.8
50°-60°	625.2	15.6
60°-70°	463.5	11.5
70°-80°	260.7	6.5
80°-90°	71.0	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°	1169.6	29.1
0°-40°	1880.9	46.8
0°-60°	3219.9	80.2
0°-90°	4015.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4015.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1556	1556	1556	1556	1556	
5°	1555	1550	1533	1548	1544	148
15°	1479	1476	1457	1465	1462	417
25°	1342	1334	1316	1320	1318	618
35°	1160	1151	1130	1126	1124	725
45°	946	942	923	912	904	731
55°	716	716	698	685	680	642
65°	485	480	467	456	452	481
75°	256	250	245	241	238	271
85°	64	64	62	60	57	74
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1556.0	1556.0	1556.0	1556.0	1556.0
2.5°	1562.5	1557.3	1540.4	1554.7	1553.4
5°	1554.7	1549.5	1532.6	1548.2	1544.3
7.5°	1544.3	1537.8	1519.6	1533.9	1532.6
10°	1527.4	1520.9	1502.8	1515.8	1514.5
12.5°	1506.7	1500.2	1482.0	1492.4	1489.8
15°	1479.4	1475.5	1457.4	1465.1	1462.5
17.5°	1450.9	1444.4	1424.9	1432.7	1432.7
20°	1418.4	1411.9	1392.5	1400.3	1395.1
22.5°	1380.8	1373.0	1357.4	1361.3	1356.1
25°	1341.9	1334.1	1315.9	1319.8	1318.5
27.5°	1299.0	1291.2	1271.8	1271.8	1269.2
30°	1254.9	1248.4	1230.3	1225.1	1218.6
32.5°	1208.2	1199.1	1182.2	1178.3	1173.2
35°	1160.2	1151.1	1130.3	1126.4	1123.8
37.5°	1107.0	1100.5	1083.6	1073.2	1066.7
40°	1059.0	1048.6	1029.1	1020.0	1013.5
42.5°	1001.8	996.7	975.9	966.8	959.0
45°	946.0	942.2	922.7	912.3	904.5
47.5°	892.8	886.4	866.9	853.9	850.0
50°	831.8	828.0	811.1	799.4	794.2
52.5°	776.0	772.2	755.3	742.3	737.1
55°	716.3	716.3	698.2	685.2	680.0
57.5°	661.8	656.7	639.8	629.4	622.9
60°	600.9	597.0	584.0	569.7	567.1
62.5°	545.0	539.9	524.3	513.9	511.3
65°	485.4	480.2	467.2	455.5	451.6
67.5°	429.5	420.5	410.1	399.7	394.5
70°	368.6	363.4	353.0	345.2	340.0
72.5°	310.2	305.0	298.5	292.0	289.4
75°	255.7	250.5	245.3	241.4	237.5
77.5°	201.1	198.6	194.7	189.5	189.5
80°	150.5	147.9	145.3	141.5	140.2
82.5°	105.1	103.8	101.2	99.9	99.9
85°	63.6	63.6	62.3	59.7	57.1
87.5°	28.6	26.0	26.0	23.4	23.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)