

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: P273781

Luminaire Tested: **4RCG-4-100D-L835**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P273781
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-L835
Description: RCG SERIES DIRECT RECESSED LED LUMINAIRE WITH FROST FLUSH LENS
Light Source: (168) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

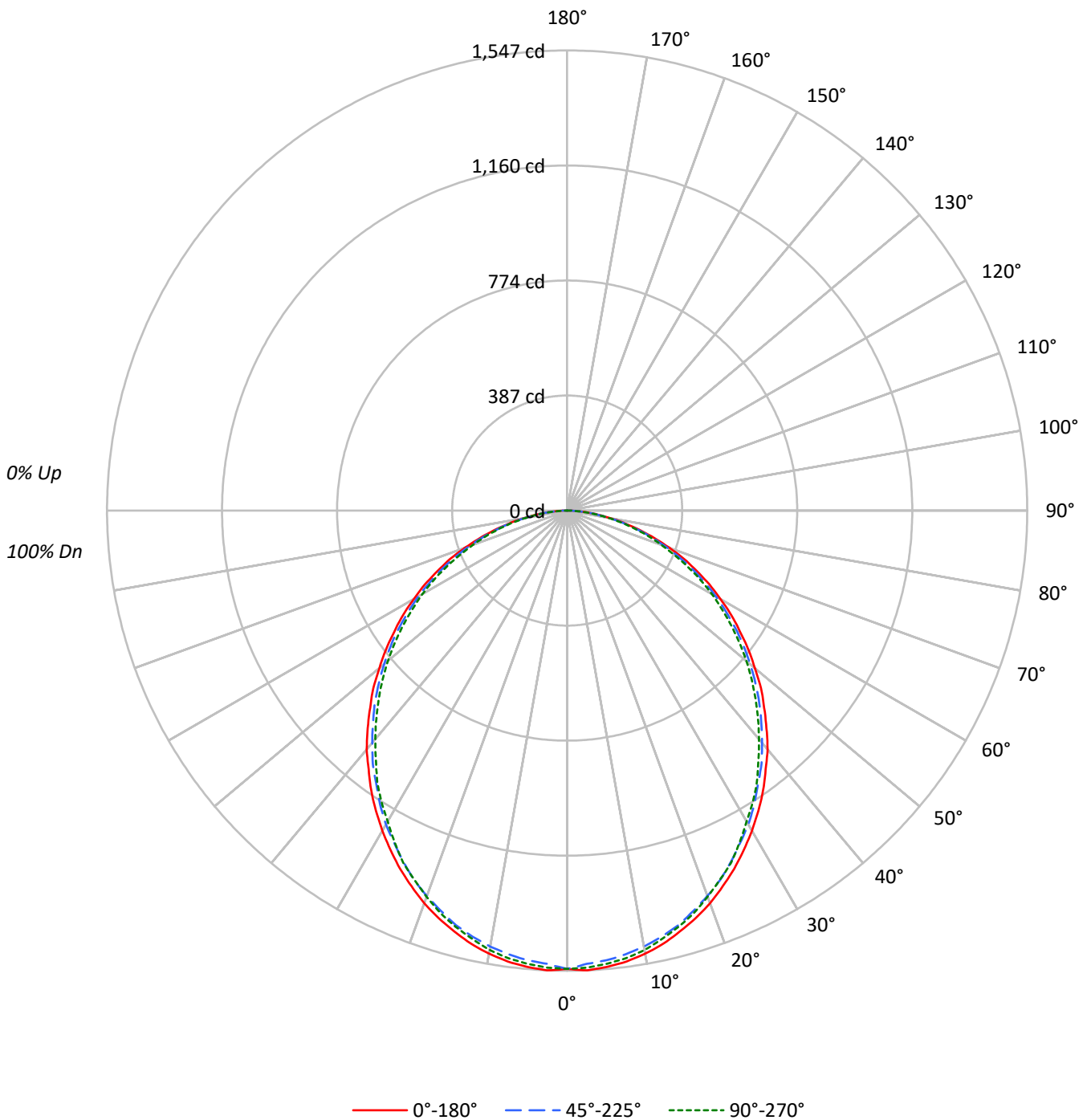
Lumens per Lamp: N/A
Luminaire Lumens: 3975.9 lumens
Efficiency: N/A
Efficacy: 115.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.3
Luminous Opening: Rectangular (W 0.23' x L: 3.88' x H: 0')
CIE Type: Direct

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



TEST NUMBER: P273781
CATALOG NUMBER: 4RCG-4-100D-L835

Luminous Intensity Polar Plot





TEST NUMBER: P273781

CATALOG NUMBER: 4RCG-4-100D-L835

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°	18676	18676	18676
5°	18732	18467	18607
10°	18616	18316	18459
15°	18384	18109	18174
20°	18118	17787	17819
25°	17770	17427	17461
30°	17392	17050	16889
35°	16999	16563	16468
40°	16592	16124	15880
45°	16059	15663	15354
50°	15533	15146	14831
55°	14992	14611	14231
60°	14424	14019	13615
65°	13784	13268	12826
70°	12936	12386	11933
75°	11858	11376	11015
80°	10408	10045	9689
85°	8762	8581	7858



TEST NUMBER: P273781

CATALOG NUMBER: 4RCG-4-100D-L835

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.1	3.6
10°-20°	409.3	10.3
20°-30°	603.7	15.2
30°-40°	704.4	17.7
40°-50°	706.8	17.8
50°-60°	619.1	15.6
60°-70°	459.0	11.5
70°-80°	258.1	6.5
80°-90°	70.3	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°	1158.1	29.1
0°-40°	1862.5	46.8
0°-60°	3188.4	80.2
0°-90°	3975.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3975.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1541	1541	1541	1541	1541	
5°	1540	1534	1518	1533	1529	146
15°	1465	1461	1443	1451	1448	413
25°	1329	1321	1303	1307	1306	612
35°	1149	1140	1119	1115	1113	718
45°	937	933	914	903	896	724
55°	709	709	691	678	673	636
65°	481	476	463	451	447	476
75°	253	248	243	239	235	268
85°	63	63	62	59	56	73
90°	0	0	0	0	0	



TEST NUMBER: P273781

CATALOG NUMBER: 4RCG-4-100D-L835

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1540.8	1540.8	1540.8	1540.8	1540.8
2.5°	1547.2	1542.1	1525.4	1539.5	1538.2
5°	1539.5	1534.4	1517.7	1533.1	1529.2
7.5°	1529.2	1522.8	1504.8	1518.9	1517.7
10°	1512.5	1506.1	1488.1	1500.9	1499.7
12.5°	1491.9	1485.5	1467.5	1477.8	1475.2
15°	1465.0	1461.1	1443.1	1450.8	1448.3
17.5°	1436.7	1430.3	1411.0	1418.7	1418.7
20°	1404.6	1398.1	1378.9	1386.6	1381.4
22.5°	1367.3	1359.6	1344.2	1348.0	1342.9
25°	1328.7	1321.0	1303.0	1306.9	1305.6
27.5°	1286.3	1278.6	1259.4	1259.4	1256.8
30°	1242.6	1236.2	1218.2	1213.1	1206.7
32.5°	1196.4	1187.4	1170.7	1166.8	1161.7
35°	1148.8	1139.8	1119.3	1115.4	1112.9
37.5°	1096.2	1089.7	1073.0	1062.7	1056.3
40°	1048.6	1038.3	1019.0	1010.1	1003.6
42.5°	992.1	986.9	966.4	957.4	949.7
45°	936.8	933.0	913.7	903.4	895.7
47.5°	884.1	877.7	858.4	845.6	841.7
50°	823.7	819.9	803.2	791.6	786.5
52.5°	768.5	764.6	747.9	735.1	729.9
55°	709.4	709.4	691.4	678.5	673.4
57.5°	655.4	650.2	633.5	623.3	616.8
60°	595.0	591.1	578.3	564.1	561.6
62.5°	539.7	534.6	519.2	508.9	506.3
65°	480.6	475.5	462.6	451.1	447.2
67.5°	425.4	416.4	406.1	395.8	390.7
70°	365.0	359.8	349.5	341.8	336.7
72.5°	307.1	302.0	295.6	289.1	286.6
75°	253.2	248.0	242.9	239.0	235.2
77.5°	199.2	196.6	192.8	187.6	187.6
80°	149.1	146.5	143.9	140.1	138.8
82.5°	104.1	102.8	100.2	98.9	98.9
85°	63.0	63.0	61.7	59.1	56.5
87.5°	28.3	25.7	25.7	23.1	23.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)