

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: P273733

Luminaire Tested: **4RCG-4-34D-L940**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P273733
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-4-34D-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

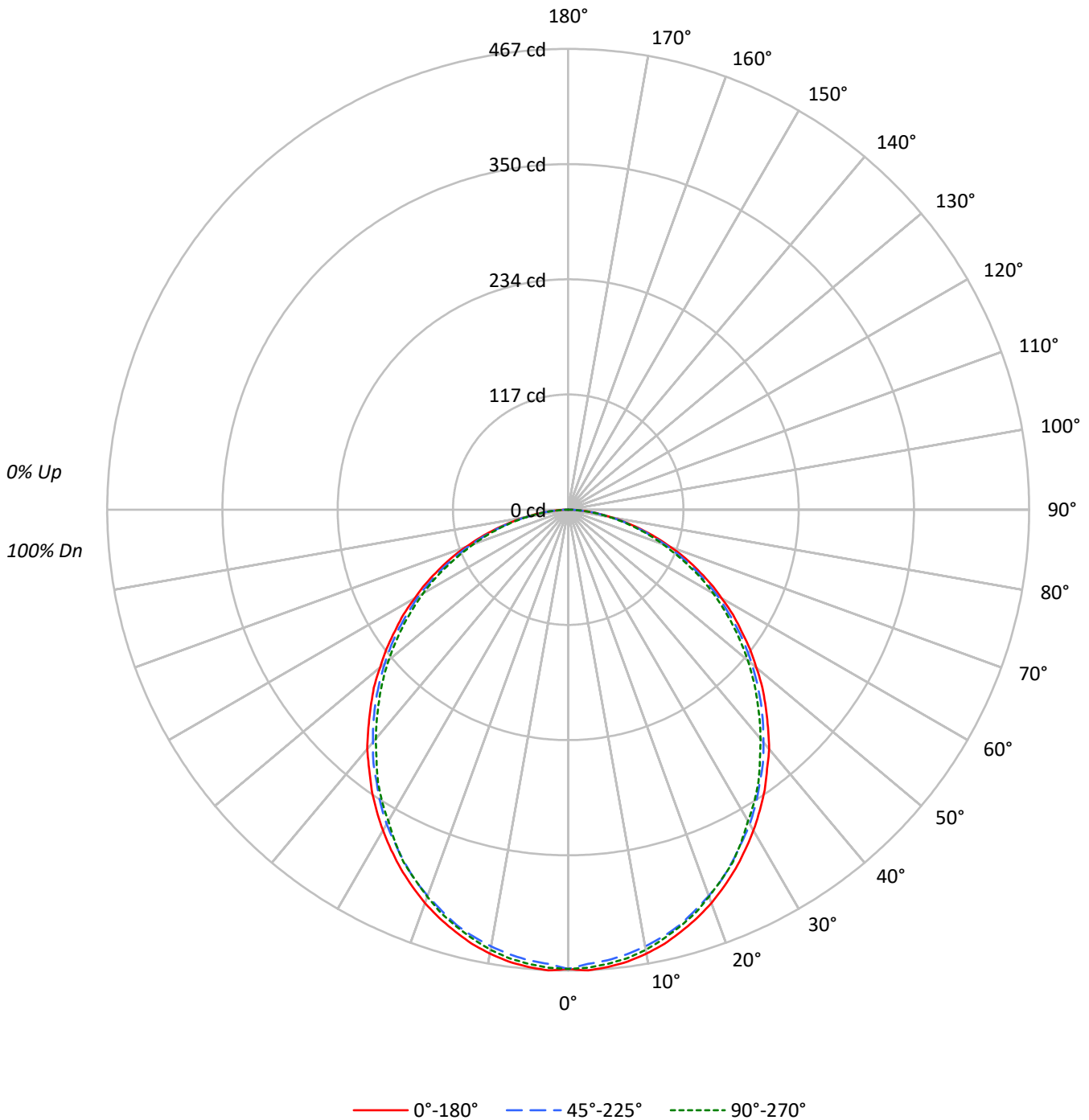
Lumens per Lamp: N/A
Luminaire Lumens: 1200.8 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.3
Luminous Opening: Rectangular (W 0.23' x L: 3.88' x H: 0')
CIE Type: Direct

Input Watts (W): 11.4
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°	5641	5641	5641
5°	5658	5578	5620
10°	5622	5531	5574
15°	5553	5470	5489
20°	5472	5371	5382
25°	5367	5264	5273
30°	5253	5149	5100
35°	5135	5003	4973
40°	5011	4870	4796
45°	4849	4731	4637
50°	4692	4575	4479
55°	4527	4413	4298
60°	4356	4235	4112
65°	4165	4007	3875
70°	3905	3742	3604
75°	3583	3438	3325
80°	3141	3036	2925
85°	2642	2587	2378



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.8	3.6
10°-20°	123.6	10.3
20°-30°	182.4	15.2
30°-40°	212.8	17.7
40°-50°	213.5	17.8
50°-60°	187.0	15.6
60°-70°	138.6	11.5
70°-80°	78.0	6.5
80°-90°	21.2	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°	349.8	29.1
0°-40°	562.6	46.8
0°-60°	963.0	80.2
0°-90°	1200.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1200.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	465	465	465	465	465	
5°	465	463	458	463	462	44
15°	442	441	436	438	437	125
25°	401	399	394	395	394	185
35°	347	344	338	337	336	217
45°	283	282	276	273	270	219
55°	214	214	209	205	203	192
65°	145	144	140	136	135	144
75°	76	75	73	72	71	81
85°	19	19	19	18	17	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	465.4	465.4	465.4	465.4	465.4
2.5°	467.3	465.7	460.7	465.0	464.6
5°	465.0	463.4	458.4	463.0	461.9
7.5°	461.9	459.9	454.5	458.8	458.4
10°	456.8	454.9	449.4	453.3	452.9
12.5°	450.6	448.7	443.2	446.3	445.6
15°	442.5	441.3	435.9	438.2	437.4
17.5°	433.9	432.0	426.2	428.5	428.5
20°	424.2	422.3	416.4	418.8	417.2
22.5°	413.0	410.6	406.0	407.1	405.6
25°	401.3	399.0	393.6	394.7	394.3
27.5°	388.5	386.2	380.4	380.4	379.6
30°	375.3	373.4	367.9	366.4	364.4
32.5°	361.3	358.6	353.6	352.4	350.9
35°	347.0	344.3	338.1	336.9	336.1
37.5°	331.1	329.1	324.1	321.0	319.0
40°	316.7	313.6	307.8	305.1	303.1
42.5°	299.6	298.1	291.9	289.1	286.8
45°	282.9	281.8	276.0	272.8	270.5
47.5°	267.0	265.1	259.3	255.4	254.2
50°	248.8	247.6	242.6	239.1	237.5
52.5°	232.1	230.9	225.9	222.0	220.5
55°	214.2	214.2	208.8	204.9	203.4
57.5°	197.9	196.4	191.3	188.2	186.3
60°	179.7	178.5	174.7	170.4	169.6
62.5°	163.0	161.5	156.8	153.7	152.9
65°	145.2	143.6	139.7	136.2	135.1
67.5°	128.5	125.8	122.6	119.5	118.0
70°	110.2	108.7	105.6	103.2	101.7
72.5°	92.8	91.2	89.3	87.3	86.6
75°	76.5	74.9	73.4	72.2	71.0
77.5°	60.2	59.4	58.2	56.7	56.7
80°	45.0	44.2	43.5	42.3	41.9
82.5°	31.4	31.0	30.3	29.9	29.9
85°	19.0	19.0	18.6	17.9	17.1
87.5°	8.5	7.8	7.8	7.0	7.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)