

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: P273721

Luminaire Tested: **4RCG-4-34D-L840**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P273721
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-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

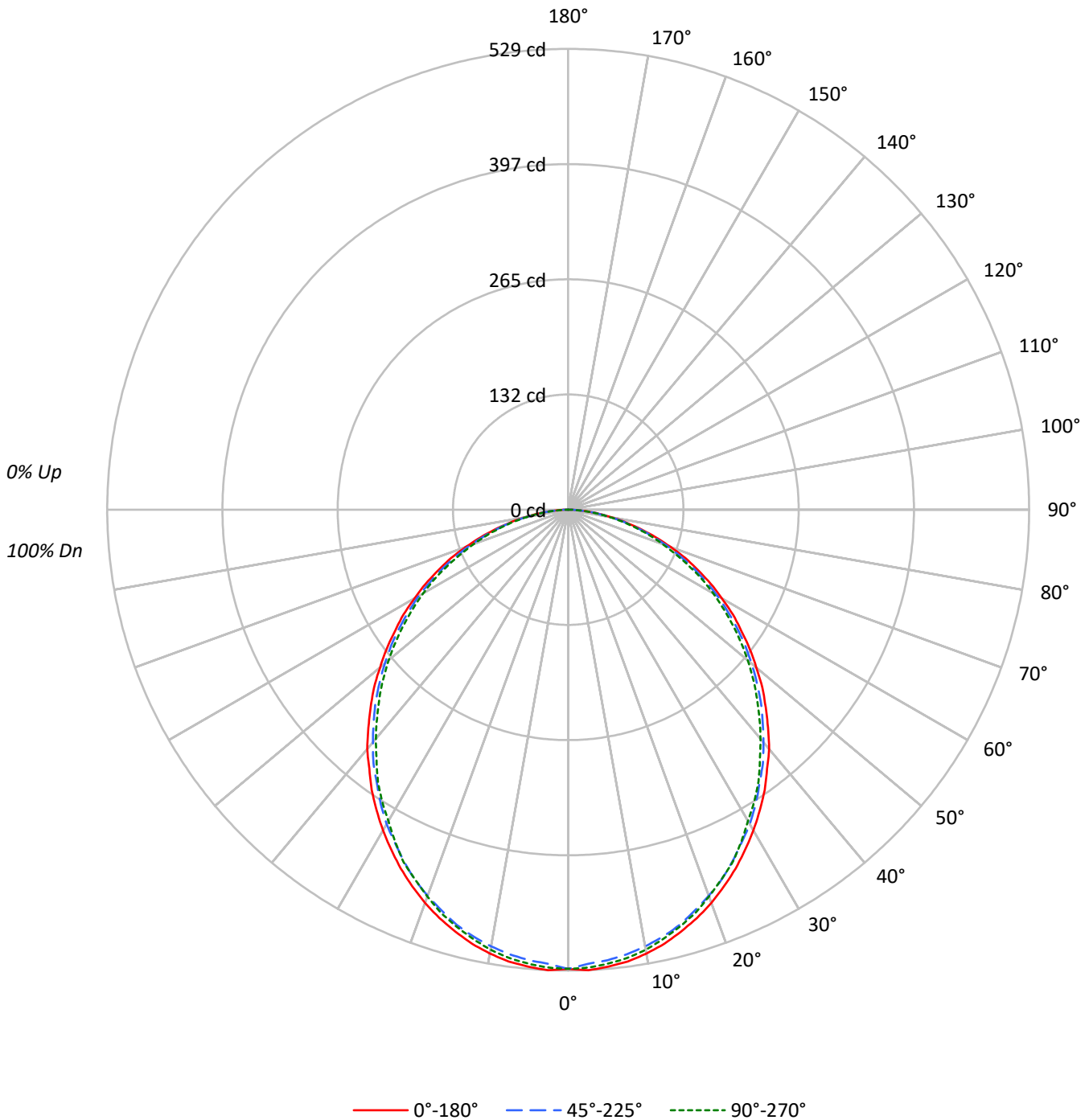
Lumens per Lamp: N/A
Luminaire Lumens: 1359.9 lumens
Efficiency: N/A
Efficacy: 119.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.3
Luminous Opening: Rectangular (W 0.23' x L: 3.88' x H: 0')
CIE Type: Direct

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°	6388	6388	6388
5°	6407	6316	6365
10°	6367	6265	6313
15°	6288	6194	6217
20°	6197	6083	6095
25°	6079	5961	5973
30°	5948	5832	5776
35°	5815	5664	5632
40°	5676	5516	5432
45°	5492	5357	5252
50°	5312	5180	5073
55°	5127	4998	4867
60°	4933	4795	4657
65°	4715	4537	4388
70°	4423	4239	4083
75°	4056	3892	3765
80°	3560	3434	3316
85°	2990	2934	2684



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.6	3.6
10°-20°	140.0	10.3
20°-30°	206.5	15.2
30°-40°	240.9	17.7
40°-50°	241.7	17.8
50°-60°	211.8	15.6
60°-70°	157.0	11.5
70°-80°	88.3	6.5
80°-90°	24.1	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°	396.1	29.1
0°-40°	637.1	46.8
0°-60°	1090.6	80.2
0°-90°	1359.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1359.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	527	527	527	527	527	
5°	527	525	519	524	523	50
15°	501	500	494	496	495	141
25°	454	452	446	447	447	209
35°	393	390	383	382	381	246
45°	320	319	312	309	306	247
55°	243	243	236	232	230	217
65°	164	163	158	154	153	163
75°	87	85	83	82	80	92
85°	22	22	21	20	19	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	527.0	527.0	527.0	527.0	527.0
2.5°	529.2	527.5	521.7	526.6	526.1
5°	526.6	524.8	519.1	524.4	523.1
7.5°	523.1	520.9	514.7	519.5	519.1
10°	517.3	515.1	509.0	513.4	512.9
12.5°	510.3	508.1	502.0	505.5	504.6
15°	501.1	499.8	493.6	496.2	495.4
17.5°	491.4	489.2	482.6	485.3	485.3
20°	480.4	478.2	471.6	474.3	472.5
22.5°	467.7	465.0	459.8	461.1	459.3
25°	454.5	451.9	445.7	447.0	446.6
27.5°	440.0	437.3	430.8	430.8	429.9
30°	425.0	422.8	416.7	414.9	412.7
32.5°	409.2	406.1	400.4	399.1	397.3
35°	393.0	389.9	382.8	381.5	380.6
37.5°	374.9	372.7	367.0	363.5	361.3
40°	358.7	355.2	348.6	345.5	343.3
42.5°	339.3	337.6	330.5	327.5	324.8
45°	320.4	319.1	312.5	309.0	306.4
47.5°	302.4	300.2	293.6	289.2	287.9
50°	281.7	280.4	274.7	270.8	269.0
52.5°	262.8	261.5	255.8	251.4	249.7
55°	242.6	242.6	236.5	232.1	230.3
57.5°	224.2	222.4	216.7	213.2	211.0
60°	203.5	202.2	197.8	193.0	192.1
62.5°	184.6	182.9	177.6	174.1	173.2
65°	164.4	162.6	158.2	154.3	153.0
67.5°	145.5	142.4	138.9	135.4	133.6
70°	124.8	123.1	119.6	116.9	115.2
72.5°	105.1	103.3	101.1	98.9	98.0
75°	86.6	84.8	83.1	81.8	80.4
77.5°	68.1	67.3	65.9	64.2	64.2
80°	51.0	50.1	49.2	47.9	47.5
82.5°	35.6	35.2	34.3	33.8	33.8
85°	21.5	21.5	21.1	20.2	19.3
87.5°	9.7	8.8	8.8	7.9	7.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)