

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: P273727

Luminaire Tested: **4RCG-4-34D-L930**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P273727
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-L930
Description: RCG SERIES DIRECT RECESSED LED LUMINAIRE WITH FROST FLUSH LENS
Light Source: (168) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

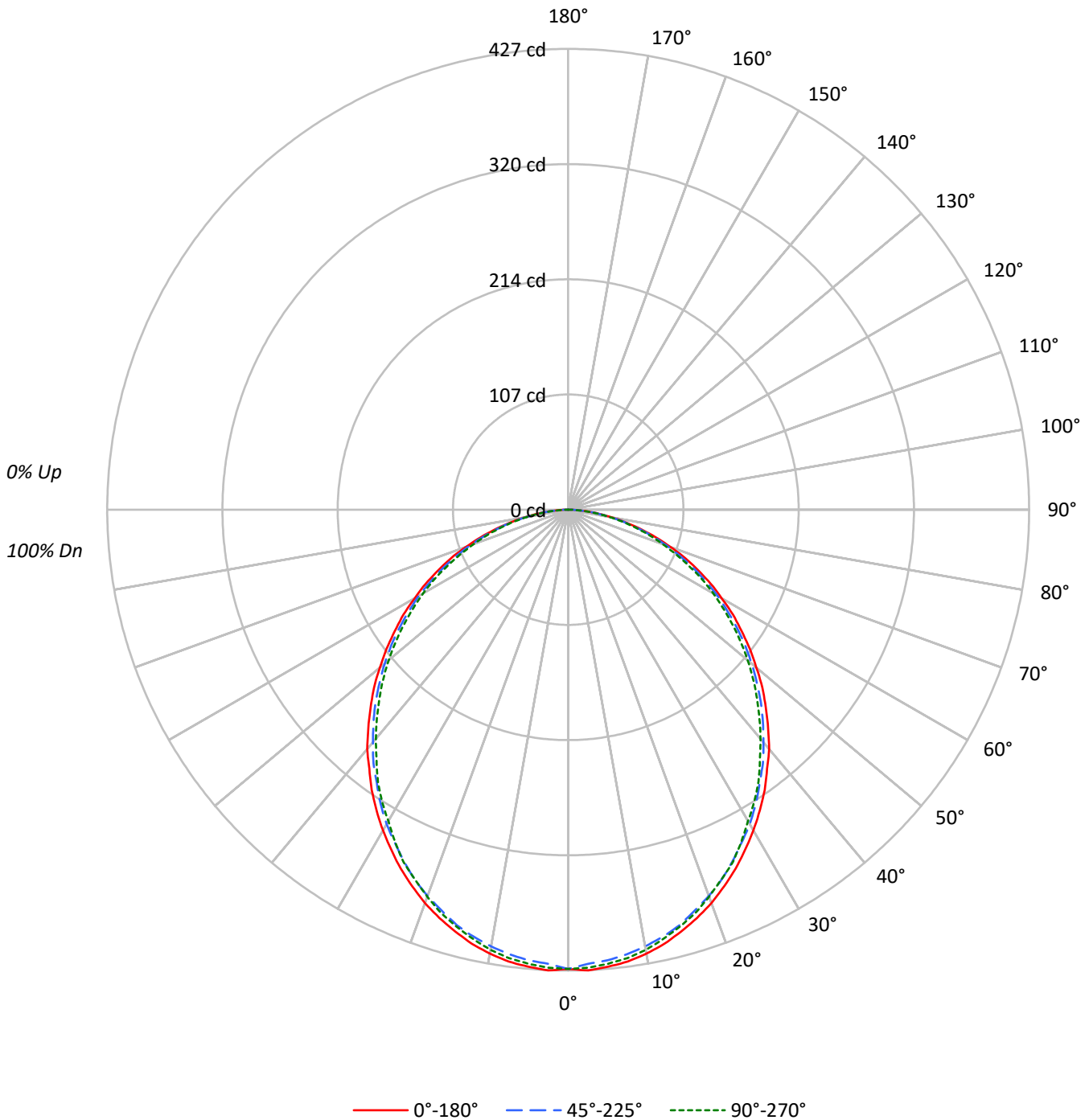
Lumens per Lamp: N/A
Luminaire Lumens: 1097.9 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.3
Luminous Opening: Rectangular (W 0.23' x L: 3.88' x H: 0')
CIE Type: Direct

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°	5158	5158	5158
5°	5172	5099	5138
10°	5141	5057	5097
15°	5076	5001	5018
20°	5004	4912	4921
25°	4907	4812	4821
30°	4802	4708	4664
35°	4694	4574	4547
40°	4582	4453	4385
45°	4435	4325	4239
50°	4290	4183	4096
55°	4140	4034	3929
60°	3983	3872	3760
65°	3806	3663	3542
70°	3572	3420	3296
75°	3274	3142	3039
80°	2876	2771	2673
85°	2420	2364	2170



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.1	3.6
10°-20°	113.0	10.3
20°-30°	166.7	15.2
30°-40°	194.5	17.7
40°-50°	195.2	17.8
50°-60°	171.0	15.6
60°-70°	126.7	11.5
70°-80°	71.3	6.5
80°-90°	19.4	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°	319.8	29.1
0°-40°	514.3	46.8
0°-60°	880.5	80.2
0°-90°	1097.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1097.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	426	426	426	426	426	
5°	425	424	419	423	422	40
15°	404	404	398	401	400	114
25°	367	365	360	361	360	169
35°	317	315	309	308	307	198
45°	259	258	252	250	247	200
55°	196	196	191	187	186	176
65°	133	131	128	125	124	132
75°	70	68	67	66	65	74
85°	17	17	17	16	16	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	425.5	425.5	425.5	425.5	425.5
2.5°	427.3	425.8	421.2	425.1	424.8
5°	425.1	423.7	419.1	423.3	422.3
7.5°	422.3	420.5	415.5	419.4	419.1
10°	417.7	415.9	410.9	414.5	414.1
12.5°	412.0	410.2	405.2	408.1	407.4
15°	404.5	403.5	398.5	400.6	399.9
17.5°	396.7	395.0	389.6	391.8	391.8
20°	387.9	386.1	380.8	382.9	381.5
22.5°	377.6	375.4	371.2	372.2	370.8
25°	366.9	364.8	359.8	360.9	360.5
27.5°	355.2	353.1	347.8	347.8	347.1
30°	343.1	341.4	336.4	335.0	333.2
32.5°	330.4	327.9	323.3	322.2	320.8
35°	317.2	314.8	309.1	308.0	307.3
37.5°	302.7	300.9	296.3	293.5	291.7
40°	289.6	286.7	281.4	278.9	277.1
42.5°	274.0	272.5	266.9	264.4	262.2
45°	258.7	257.6	252.3	249.5	247.3
47.5°	244.1	242.4	237.0	233.5	232.4
50°	227.5	226.4	221.8	218.6	217.2
52.5°	212.2	211.1	206.5	203.0	201.6
55°	195.9	195.9	190.9	187.4	185.9
57.5°	181.0	179.6	174.9	172.1	170.3
60°	164.3	163.2	159.7	155.8	155.1
62.5°	149.0	147.6	143.4	140.5	139.8
65°	132.7	131.3	127.7	124.6	123.5
67.5°	117.5	115.0	112.1	109.3	107.9
70°	100.8	99.4	96.5	94.4	93.0
72.5°	84.8	83.4	81.6	79.8	79.1
75°	69.9	68.5	67.1	66.0	64.9
77.5°	55.0	54.3	53.2	51.8	51.8
80°	41.2	40.5	39.7	38.7	38.3
82.5°	28.7	28.4	27.7	27.3	27.3
85°	17.4	17.4	17.0	16.3	15.6
87.5°	7.8	7.1	7.1	6.4	6.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)