

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: P273715

Luminaire Tested: **4RCG-4-34D-L830**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P273715
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-L830
Description: RCG SERIES DIRECT RECESSED LED LUMINAIRE WITH FROST FLUSH LENS
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

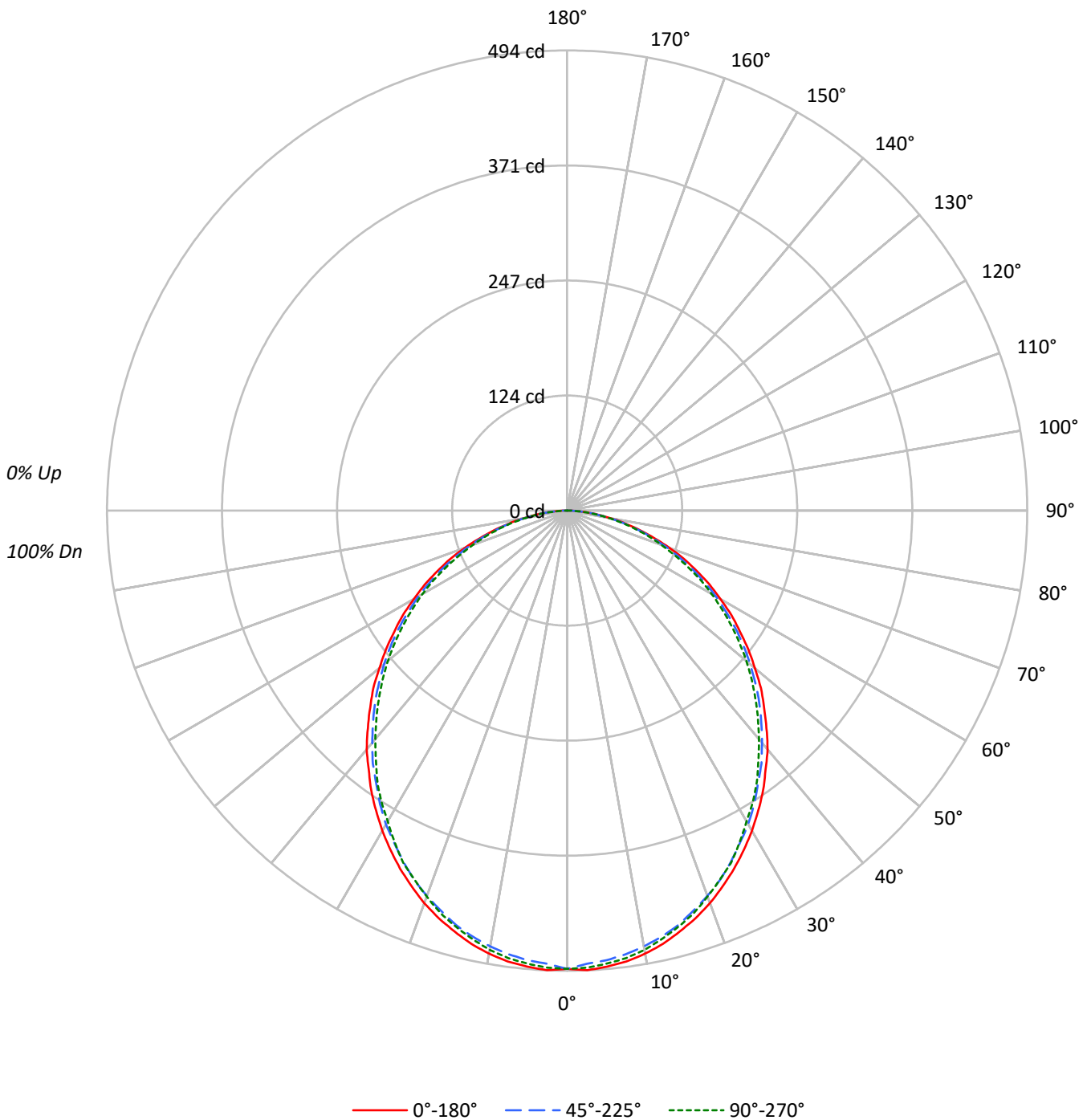
Lumens per Lamp: N/A
Luminaire Lumens: 1269.3 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.3
Luminous Opening: Rectangular (W 0.23' x L: 3.88' x H: 0')
CIE Type: Direct

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°	5962	5962	5962
5°	5980	5895	5940
10°	5944	5848	5893
15°	5869	5781	5801
20°	5784	5678	5689
25°	5673	5564	5574
30°	5552	5443	5391
35°	5428	5287	5257
40°	5298	5147	5070
45°	5127	5000	4901
50°	4959	4835	4735
55°	4787	4664	4544
60°	4604	4475	4347
65°	4400	4236	4096
70°	4129	3955	3810
75°	3784	3630	3517
80°	3323	3204	3092
85°	2795	2740	2517



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.3	3.6
10°-20°	130.7	10.3
20°-30°	192.7	15.2
30°-40°	224.9	17.7
40°-50°	225.6	17.8
50°-60°	197.7	15.6
60°-70°	146.5	11.5
70°-80°	82.4	6.5
80°-90°	22.5	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°	369.7	29.1
0°-40°	594.6	46.8
0°-60°	1017.9	80.2
0°-90°	1269.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1269.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	492	492	492	492	492	
5°	492	490	484	489	488	47
15°	468	466	461	463	462	132
25°	424	422	416	417	417	195
35°	367	364	357	356	355	229
45°	299	298	292	288	286	231
55°	226	226	221	217	215	203
65°	153	152	148	144	143	152
75°	81	79	78	76	75	86
85°	20	20	20	19	18	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	491.9	491.9	491.9	491.9	491.9
2.5°	493.9	492.3	487.0	491.5	491.1
5°	491.5	489.8	484.5	489.4	488.2
7.5°	488.2	486.1	480.4	484.9	484.5
10°	482.9	480.8	475.1	479.2	478.8
12.5°	476.3	474.2	468.5	471.8	471.0
15°	467.7	466.4	460.7	463.2	462.3
17.5°	458.7	456.6	450.4	452.9	452.9
20°	448.4	446.3	440.2	442.7	441.0
22.5°	436.5	434.0	429.1	430.3	428.7
25°	424.2	421.7	416.0	417.2	416.8
27.5°	410.7	408.2	402.0	402.0	401.2
30°	396.7	394.7	388.9	387.3	385.2
32.5°	381.9	379.1	373.7	372.5	370.9
35°	366.8	363.9	357.3	356.1	355.3
37.5°	349.9	347.9	342.6	339.3	337.2
40°	334.8	331.5	325.3	322.5	320.4
42.5°	316.7	315.1	308.5	305.6	303.2
45°	299.1	297.8	291.7	288.4	285.9
47.5°	282.2	280.2	274.0	269.9	268.7
50°	263.0	261.7	256.4	252.7	251.1
52.5°	245.3	244.1	238.8	234.7	233.0
55°	226.5	226.5	220.7	216.6	215.0
57.5°	209.2	207.6	202.2	199.0	196.9
60°	189.9	188.7	184.6	180.1	179.3
62.5°	172.3	170.7	165.7	162.5	161.6
65°	153.4	151.8	147.7	144.0	142.8
67.5°	135.8	132.9	129.6	126.4	124.7
70°	116.5	114.9	111.6	109.1	107.5
72.5°	98.0	96.4	94.4	92.3	91.5
75°	80.8	79.2	77.5	76.3	75.1
77.5°	63.6	62.8	61.5	59.9	59.9
80°	47.6	46.8	45.9	44.7	44.3
82.5°	33.2	32.8	32.0	31.6	31.6
85°	20.1	20.1	19.7	18.9	18.1
87.5°	9.0	8.2	8.2	7.4	7.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)