

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: P273718

Luminaire Tested: **4RCG-4-34D-L835**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P273718  
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-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**

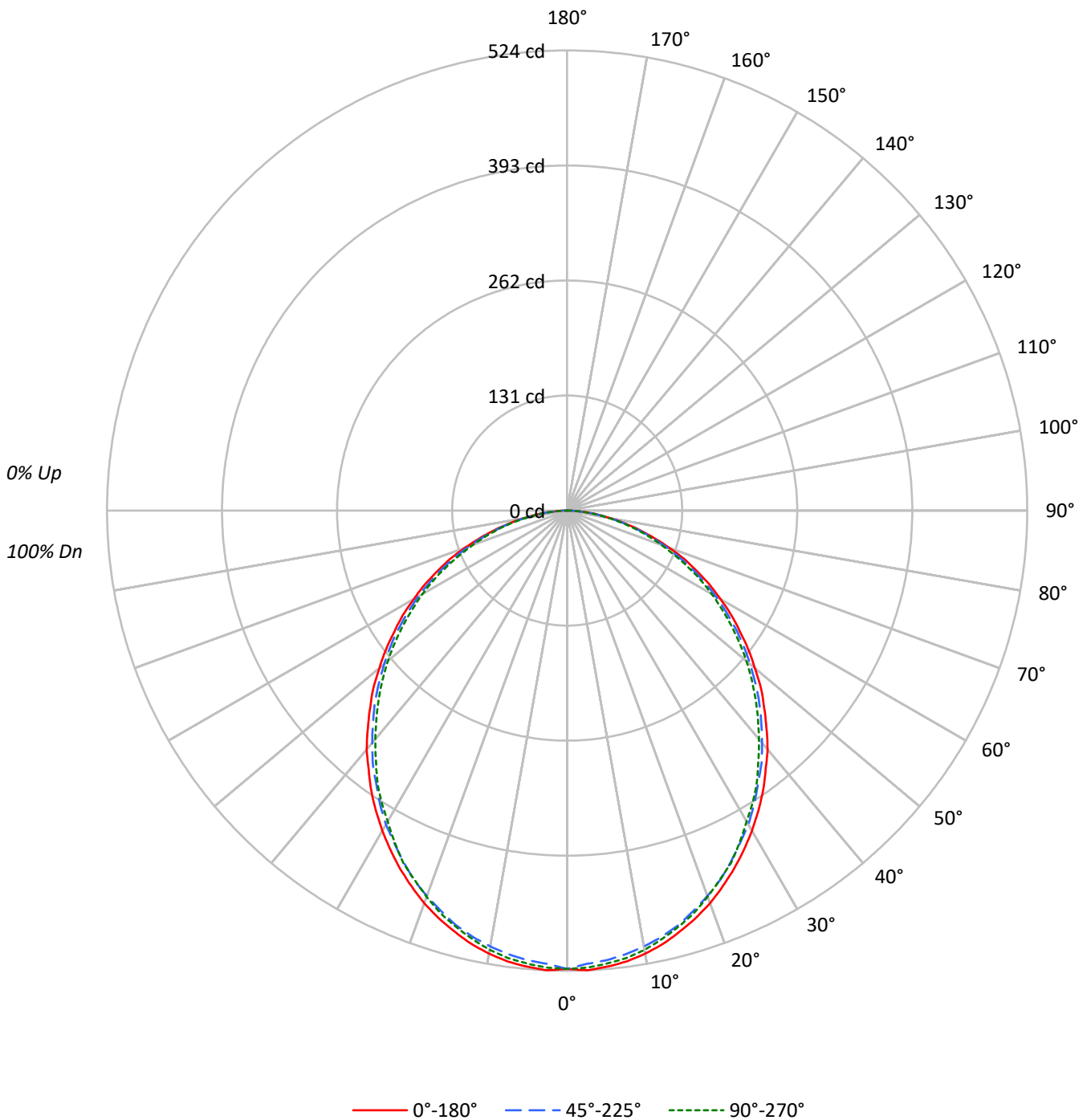
Lumens per Lamp: N/A  
Luminaire Lumens: 1346.7 lumens  
Efficiency: N/A  
Efficacy: 118.1 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.3  
Luminous Opening: Rectangular (W 0.23' x L: 3.88' x H: 0')  
CIE Type: Direct

Input Watts (W): 11.4  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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°	6326	6326	6326
5°	6344	6254	6302
10°	6305	6203	6251
15°	6227	6134	6155
20°	6136	6024	6036
25°	6018	5902	5914
30°	5891	5775	5720
35°	5758	5610	5577
40°	5620	5462	5378
45°	5439	5305	5201
50°	5261	5129	5024
55°	5078	4949	4820
60°	4885	4749	4611
65°	4669	4494	4345
70°	4380	4196	4040
75°	4014	3854	3733
80°	3525	3399	3281
85°	2962	2907	2670



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	49.1	3.6
10°-20°	138.6	10.3
20°-30°	204.5	15.2
30°-40°	238.6	17.7
40°-50°	239.4	17.8
50°-60°	209.7	15.6
60°-70°	155.5	11.5
70°-80°	87.4	6.5
80°-90°	23.8	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°	392.3	29.1
0°-40°	630.8	46.8
0°-60°	1079.9	80.2
0°-90°	1346.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1346.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	522	522	522	522	522	
5°	521	520	514	519	518	49
15°	496	495	489	491	490	140
25°	450	447	441	443	442	207
35°	389	386	379	378	377	243
45°	317	316	310	306	303	245
55°	240	240	234	230	228	215
65°	163	161	157	153	152	161
75°	86	84	82	81	80	91
85°	21	21	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°	521.9	521.9	521.9	521.9	521.9
2.5°	524.0	522.3	516.6	521.4	521.0
5°	521.4	519.7	514.0	519.3	517.9
7.5°	517.9	515.8	509.7	514.5	514.0
10°	512.3	510.1	504.0	508.4	507.9
12.5°	505.3	503.1	497.1	500.5	499.7
15°	496.2	494.9	488.8	491.4	490.5
17.5°	486.6	484.4	477.9	480.5	480.5
20°	475.7	473.6	467.0	469.6	467.9
22.5°	463.1	460.5	455.3	456.6	454.8
25°	450.0	447.4	441.3	442.6	442.2
27.5°	435.7	433.1	426.5	426.5	425.7
30°	420.9	418.7	412.6	410.9	408.7
32.5°	405.2	402.2	396.5	395.2	393.5
35°	389.1	386.1	379.1	377.8	376.9
37.5°	371.3	369.1	363.4	360.0	357.8
40°	355.2	351.7	345.2	342.1	339.9
42.5°	336.0	334.3	327.3	324.3	321.6
45°	317.3	316.0	309.5	306.0	303.4
47.5°	299.5	297.3	290.7	286.4	285.1
50°	279.0	277.7	272.0	268.1	266.4
52.5°	260.3	259.0	253.3	249.0	247.2
55°	240.3	240.3	234.2	229.8	228.1
57.5°	222.0	220.2	214.6	211.1	208.9
60°	201.5	200.2	195.9	191.1	190.2
62.5°	182.8	181.1	175.8	172.4	171.5
65°	162.8	161.0	156.7	152.8	151.5
67.5°	144.1	141.0	137.5	134.1	132.3
70°	123.6	121.9	118.4	115.8	114.0
72.5°	104.0	102.3	100.1	97.9	97.1
75°	85.7	84.0	82.3	81.0	79.7
77.5°	67.5	66.6	65.3	63.5	63.5
80°	50.5	49.6	48.7	47.4	47.0
82.5°	35.3	34.8	33.9	33.5	33.5
85°	21.3	21.3	20.9	20.0	19.2
87.5°	9.6	8.7	8.7	7.8	7.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)