

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: **8RCG-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: 8RCG-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**

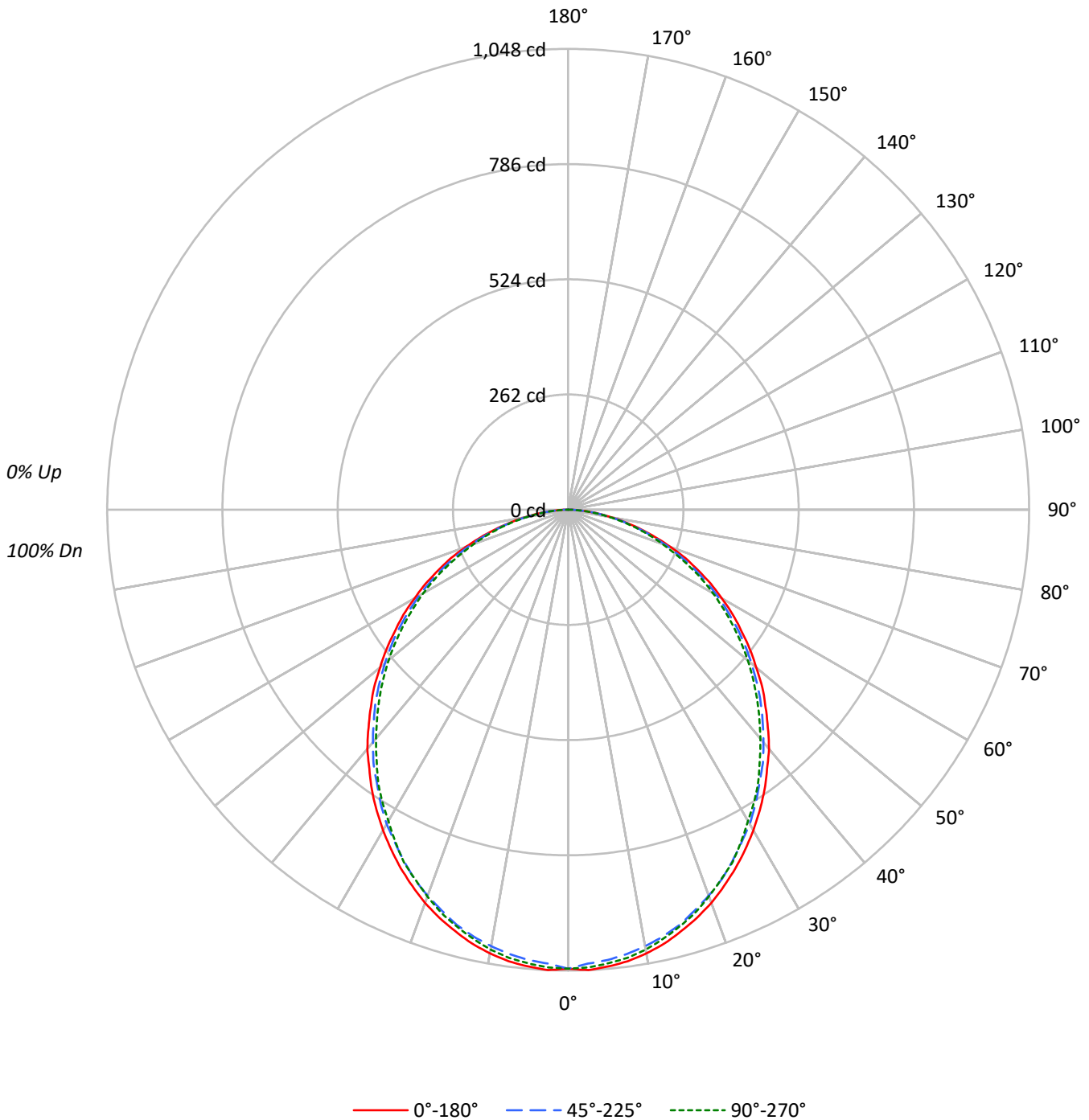
Lumens per Lamp: N/A  
Luminaire Lumens: 2693.3 lumens  
Efficiency: N/A  
Efficacy: 118.1 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.3  
Luminous Opening: Rectangular (W 0.23' x L: 7.88' x H: 0')  
CIE Type: Direct

Input Watts (W): 22.8  
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°	6226	6226	6226
5°	6243	6155	6202
10°	6205	6105	6152
15°	6128	6036	6057
20°	6039	5928	5940
25°	5923	5808	5820
30°	5798	5683	5630
35°	5666	5521	5489
40°	5531	5375	5293
45°	5353	5221	5118
50°	5178	5048	4944
55°	4998	4871	4744
60°	4807	4674	4538
65°	4595	4423	4276
70°	4311	4130	3976
75°	3950	3793	3673
80°	3469	3345	3229
85°	2915	2861	2628



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	98.3	3.6
10°-20°	277.2	10.3
20°-30°	409.0	15.2
30°-40°	477.2	17.7
40°-50°	478.8	17.8
50°-60°	419.4	15.6
60°-70°	310.9	11.5
70°-80°	174.9	6.5
80°-90°	47.6	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°	784.5	29.1
0°-40°	1261.7	46.8
0°-60°	2159.9	80.2
0°-90°	2693.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2693.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1044	1044	1044	1044	1044	
5°	1043	1039	1028	1039	1036	99
15°	992	990	978	983	981	280
25°	900	895	883	885	884	414
35°	778	772	758	756	754	486
45°	635	632	619	612	607	490
55°	481	481	468	460	456	431
65°	326	322	313	306	303	323
75°	171	168	165	162	159	182
85°	43	43	42	40	38	50
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1043.8	1043.8	1043.8	1043.8	1043.8
2.5°	1048.0	1044.6	1033.2	1042.8	1042.0
5°	1042.8	1039.4	1028.0	1038.6	1035.8
7.5°	1035.8	1031.6	1019.4	1029.0	1028.0
10°	1024.6	1020.2	1008.0	1016.8	1015.8
12.5°	1010.6	1006.2	994.2	1001.0	999.4
15°	992.4	989.8	977.6	982.8	981.0
17.5°	973.2	968.8	955.8	961.0	961.0
20°	951.4	947.2	934.0	939.2	935.8
22.5°	926.2	921.0	910.6	913.2	909.6
25°	900.0	894.8	882.6	885.2	884.4
27.5°	871.4	866.2	853.0	853.0	851.4
30°	841.8	837.4	825.2	821.8	817.4
32.5°	810.4	804.4	793.0	790.4	787.0
35°	778.2	772.2	758.2	755.6	753.8
37.5°	742.6	738.2	726.8	720.0	715.6
40°	710.4	703.4	690.4	684.2	679.8
42.5°	672.0	668.6	654.6	648.6	643.2
45°	634.6	632.0	619.0	612.0	606.8
47.5°	599.0	594.6	581.4	572.8	570.2
50°	558.0	555.4	544.0	536.2	532.8
52.5°	520.6	518.0	506.6	498.0	494.4
55°	480.6	480.6	468.4	459.6	456.2
57.5°	444.0	440.4	429.2	422.2	417.8
60°	403.0	400.4	391.8	382.2	380.4
62.5°	365.6	362.2	351.6	344.8	343.0
65°	325.6	322.0	313.4	305.6	303.0
67.5°	288.2	282.0	275.0	268.2	264.6
70°	247.2	243.8	236.8	231.6	228.0
72.5°	208.0	204.6	200.2	195.8	194.2
75°	171.4	168.0	164.6	162.0	159.4
77.5°	135.0	133.2	130.6	127.0	127.0
80°	101.0	99.2	97.4	94.8	94.0
82.5°	70.6	69.6	67.8	67.0	67.0
85°	42.6	42.6	41.8	40.0	38.4
87.5°	19.2	17.4	17.4	15.6	15.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)