

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: P273730

Luminaire Tested: **8RCG-4-34D-L935**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P273730  
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-L935  
Description: RCG SERIES DIRECT RECESSED LED LUMINAIRE WITH FROST FLUSH LENS  
Light Source: (168) 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

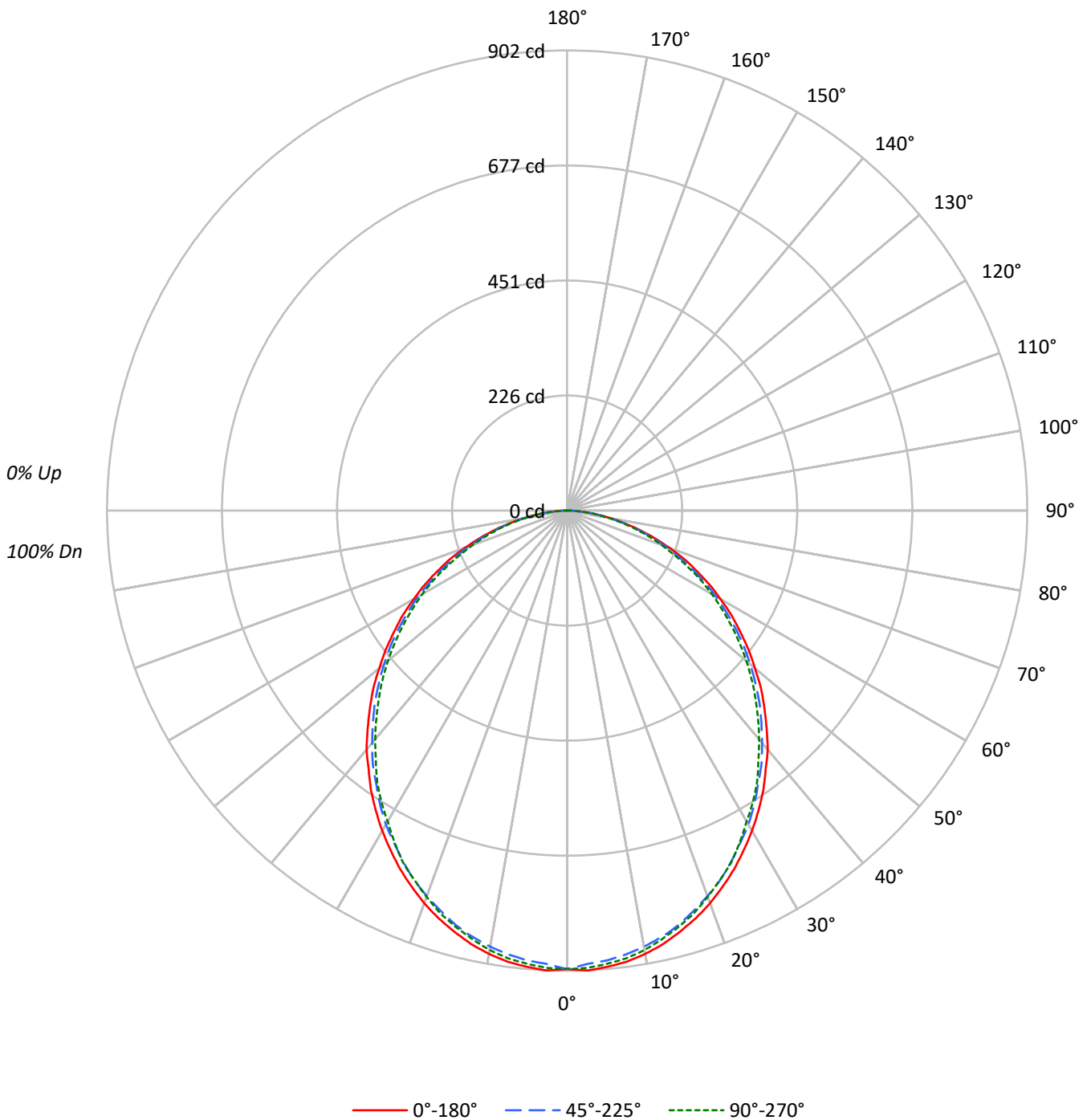
Lumens per Lamp: N/A  
Luminaire Lumens: 2318.9 lumens  
Efficiency: N/A  
Efficacy: 101.7 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.3  
Luminous Opening: Rectangular (W 0.23' x L: 7.88' x H: 0')  
CIE Type: Direct

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



TEST NUMBER: P273730  
CATALOG NUMBER: 8RCG-4-34D-L935

### Luminous Intensity Polar Plot





TEST NUMBER: P273730

CATALOG NUMBER: 8RCG-4-34D-L935

**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°	5360	5360	5360
5°	5377	5300	5341
10°	5343	5257	5297
15°	5276	5197	5215
20°	5200	5104	5115
25°	5100	5002	5011
30°	4992	4894	4847
35°	4878	4753	4726
40°	4762	4628	4558
45°	4609	4494	4406
50°	4458	4346	4255
55°	4303	4193	4085
60°	4139	4022	3908
65°	3957	3808	3681
70°	3711	3554	3425
75°	3401	3263	3162
80°	2988	2885	2782
85°	2518	2464	2258



TEST NUMBER: P273730

CATALOG NUMBER: 8RCG-4-34D-L935

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	84.6	3.6
10°-20°	238.7	10.3
20°-30°	352.1	15.2
30°-40°	410.9	17.7
40°-50°	412.2	17.8
50°-60°	361.1	15.6
60°-70°	267.7	11.5
70°-80°	150.5	6.5
80°-90°	41.0	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°	675.5	29.1
0°-40°	1086.3	46.8
0°-60°	1859.7	80.2
0°-90°	2318.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2318.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	899	899	899	899	899	
5°	898	895	885	894	892	85
15°	854	852	842	846	845	241
25°	775	770	760	762	761	357
35°	670	665	653	651	649	419
45°	546	544	533	527	522	422
55°	414	414	403	396	393	371
65°	280	277	270	263	261	278
75°	148	145	142	139	137	156
85°	37	37	36	34	33	43
90°	0	0	0	0	0	



TEST NUMBER: P273730

CATALOG NUMBER: 8RCG-4-34D-L935

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	898.6	898.6	898.6	898.6	898.6
2.5°	902.4	899.4	889.6	898.0	897.2
5°	898.0	895.0	885.2	894.2	892.0
7.5°	892.0	888.2	877.6	886.0	885.2
10°	882.2	878.4	868.0	875.4	874.6
12.5°	870.2	866.4	856.0	862.0	860.4
15°	854.4	852.2	841.6	846.2	844.6
17.5°	838.0	834.2	823.0	827.4	827.4
20°	819.2	815.4	804.2	808.8	805.8
22.5°	797.4	793.0	784.0	786.2	783.2
25°	775.0	770.4	760.0	762.2	761.4
27.5°	750.2	745.8	734.6	734.6	733.0
30°	724.8	721.0	710.6	707.6	703.8
32.5°	697.8	692.6	682.8	680.6	677.6
35°	670.0	664.8	652.8	650.6	649.0
37.5°	639.4	635.6	625.8	619.8	616.0
40°	611.6	605.6	594.4	589.2	585.4
42.5°	578.6	575.6	563.6	558.4	553.8
45°	546.4	544.2	532.8	526.8	522.4
47.5°	515.6	512.0	500.6	493.2	491.0
50°	480.4	478.2	468.4	461.6	458.6
52.5°	448.2	446.0	436.2	428.8	425.8
55°	413.8	413.8	403.2	395.8	392.8
57.5°	382.2	379.2	369.6	363.6	359.8
60°	347.0	344.8	337.2	329.0	327.6
62.5°	314.8	311.8	302.8	296.8	295.4
65°	280.4	277.4	269.8	263.0	260.8
67.5°	248.0	242.8	236.8	230.8	227.8
70°	212.8	209.8	203.8	199.4	196.4
72.5°	179.2	176.2	172.4	168.6	167.2
75°	147.6	144.6	141.6	139.4	137.2
77.5°	116.2	114.6	112.4	109.4	109.4
80°	87.0	85.4	84.0	81.6	81.0
82.5°	60.8	60.0	58.4	57.8	57.8
85°	36.8	36.8	36.0	34.4	33.0
87.5°	16.4	15.0	15.0	13.4	13.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)