

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: P273793

Luminaire Tested: **8RCG-4-100D-L935**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P273793  
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-4-100D-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**

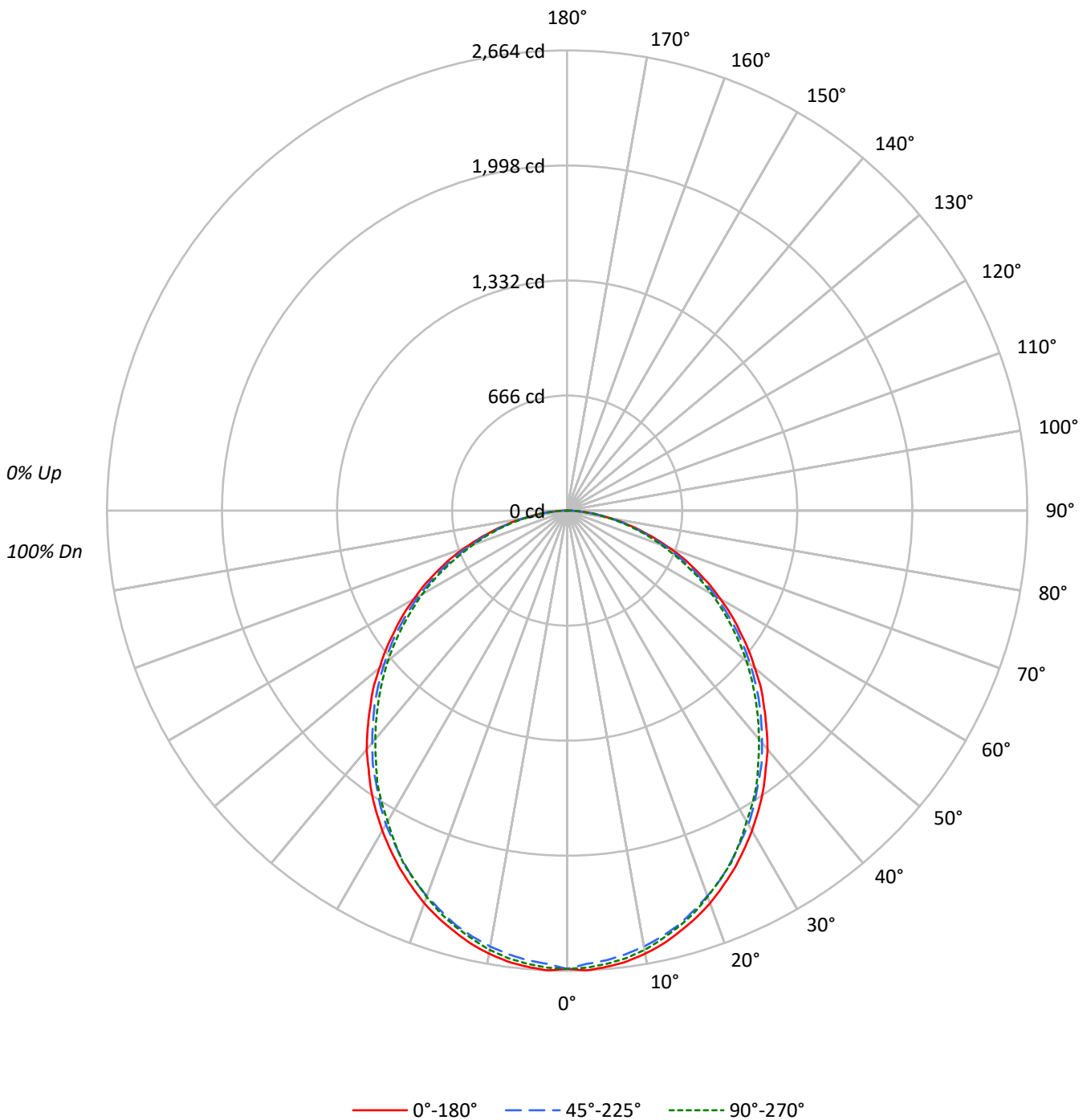
Lumens per Lamp: N/A  
Luminaire Lumens: 6846.5 lumens  
Efficiency: N/A  
Efficacy: 99.5 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.3  
Luminous Opening: Rectangular (W 0.23' x L: 7.88' x H: 0')  
CIE Type: Direct

Input Watts (W): 68.8  
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°	15825	15825	15825
5°	15872	15647	15767
10°	15775	15519	15640
15°	15577	15344	15400
20°	15351	15071	15099
25°	15059	14766	14795
30°	14737	14448	14310
35°	14405	14034	13954
40°	14058	13663	13456
45°	13607	13272	13010
50°	13161	12833	12566
55°	12703	12381	12058
60°	12222	11879	11535
65°	11680	11242	10867
70°	10959	10495	10111
75°	10047	9637	9333
80°	8814	8511	8209
85°	7418	7268	6665



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	249.9	3.6
10°-20°	704.8	10.3
20°-30°	1039.6	15.2
30°-40°	1213.0	17.7
40°-50°	1217.0	17.8
50°-60°	1066.2	15.6
60°-70°	790.4	11.5
70°-80°	444.5	6.5
80°-90°	121.1	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°	1994.3	29.1
0°-40°	3207.3	46.8
0°-60°	5490.5	80.2
0°-90°	6846.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6846.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2653	2653	2653	2653	2653	
5°	2651	2642	2613	2640	2633	252
15°	2523	2516	2485	2498	2494	711
25°	2288	2275	2244	2250	2248	1054
35°	1978	1963	1927	1921	1916	1236
45°	1613	1607	1573	1556	1542	1246
55°	1222	1222	1191	1168	1160	1095
65°	828	819	797	777	770	820
75°	436	427	418	412	405	461
85°	108	108	106	102	97	126
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2653.2	2653.2	2653.2	2653.2	2653.2
2.5°	2664.2	2655.4	2626.6	2651.0	2648.8
5°	2651.0	2642.2	2613.4	2640.0	2633.4
7.5°	2633.4	2622.2	2591.2	2615.6	2613.4
10°	2604.6	2593.4	2562.4	2584.6	2582.4
12.5°	2569.2	2558.0	2527.0	2544.8	2540.4
15°	2522.6	2516.0	2485.0	2498.4	2494.0
17.5°	2474.0	2463.0	2429.8	2443.0	2443.0
20°	2418.6	2407.6	2374.4	2387.6	2378.8
22.5°	2354.4	2341.2	2314.6	2321.2	2312.4
25°	2288.2	2274.8	2243.8	2250.4	2248.2
27.5°	2215.0	2201.8	2168.6	2168.6	2164.2
30°	2139.8	2128.8	2097.8	2089.0	2077.8
32.5°	2060.2	2044.6	2016.0	2009.2	2000.4
35°	1978.4	1962.8	1927.4	1920.8	1916.4
37.5°	1887.6	1876.6	1847.8	1830.0	1819.0
40°	1805.6	1788.0	1754.8	1739.4	1728.2
42.5°	1708.4	1699.4	1664.0	1648.6	1635.4
45°	1613.2	1606.6	1573.4	1555.6	1542.4
47.5°	1522.4	1511.4	1478.2	1456.0	1449.4
50°	1418.4	1411.8	1383.0	1363.2	1354.2
52.5°	1323.2	1316.6	1287.8	1265.8	1257.0
55°	1221.6	1221.6	1190.6	1168.4	1159.6
57.5°	1128.6	1119.8	1091.0	1073.2	1062.2
60°	1024.6	1018.0	995.8	971.4	967.0
62.5°	929.4	920.6	894.0	876.2	871.8
65°	827.6	818.8	796.6	776.8	770.0
67.5°	732.4	717.0	699.2	681.6	672.8
70°	628.4	619.6	601.8	588.6	579.8
72.5°	528.8	520.0	509.0	497.8	493.4
75°	436.0	427.0	418.2	411.6	405.0
77.5°	343.0	338.6	332.0	323.0	323.0
80°	256.6	252.2	247.8	241.2	239.0
82.5°	179.2	177.0	172.6	170.4	170.4
85°	108.4	108.4	106.2	101.8	97.4
87.5°	48.6	44.2	44.2	39.8	39.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)