

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: P273781

Luminaire Tested: **8RCG-4-100D-L835**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P273781
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-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

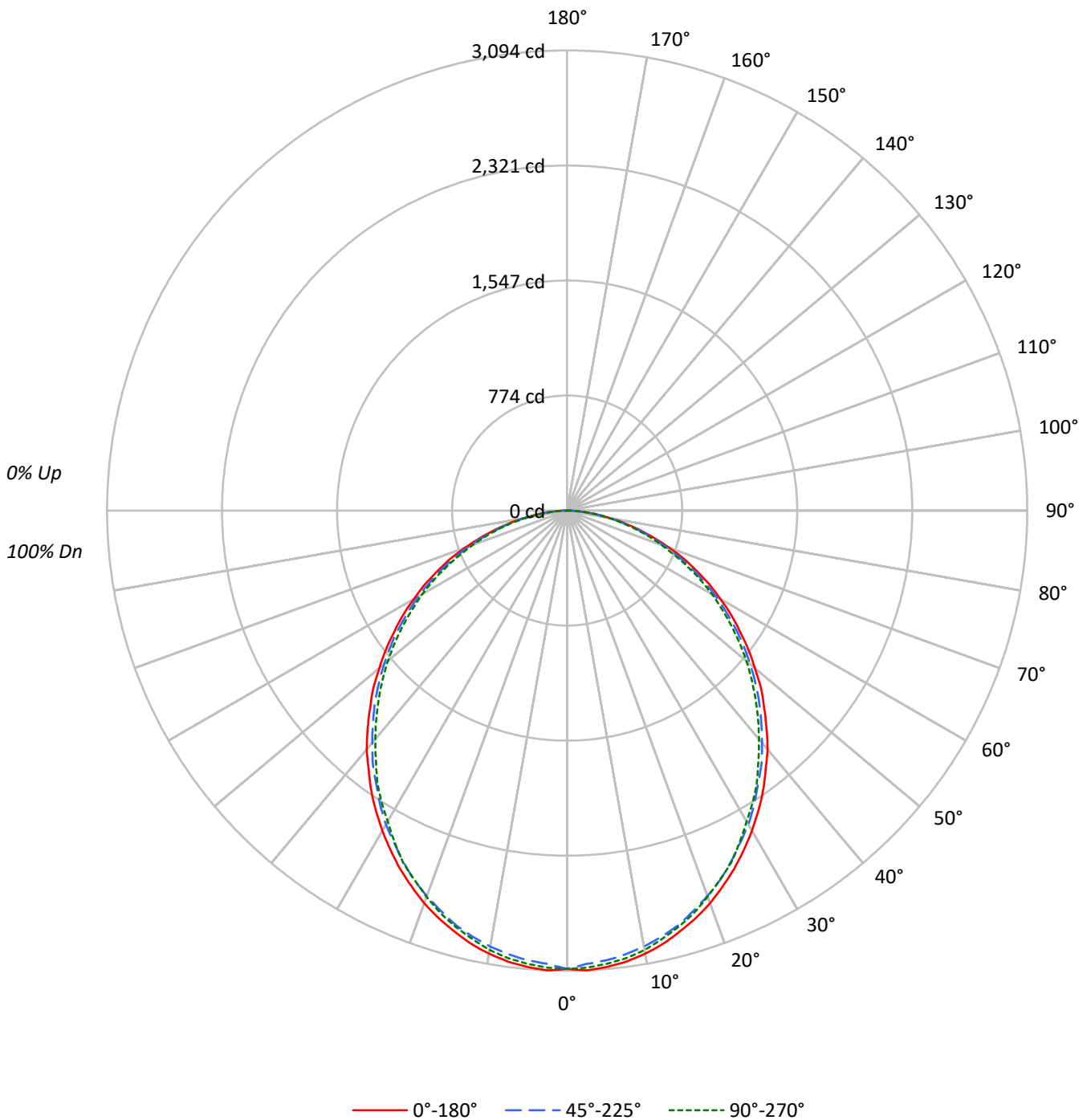
Lumens per Lamp: N/A
Luminaire Lumens: 7951.9 lumens
Efficiency: N/A
Efficacy: 115.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.3
Luminous Opening: Rectangular (W 0.23' x L: 7.88' x H: 0')
CIE Type: Direct

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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CATALOG NUMBER: 8RCG-4-100D-L835

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°	18380	18380	18380
5°	18435	18174	18311
10°	18321	18025	18166
15°	18092	17822	17886
20°	17831	17504	17536
25°	17488	17150	17184
30°	17116	16780	16621
35°	16729	16300	16207
40°	16329	15868	15628
45°	15804	15414	15110
50°	15286	14906	14596
55°	14754	14379	14005
60°	14195	13797	13398
65°	13565	13057	12623
70°	12730	12190	11743
75°	11670	11195	10840
80°	10242	9885	9535
85°	8623	8445	7733



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.2	3.6
10°-20°	818.6	10.3
20°-30°	1207.5	15.2
30°-40°	1408.8	17.7
40°-50°	1413.5	17.8
50°-60°	1238.3	15.6
60°-70°	918.0	11.5
70°-80°	516.3	6.5
80°-90°	140.7	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°	2316.3	29.1
0°-40°	3725.1	46.8
0°-60°	6376.9	80.2
0°-90°	7951.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7951.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3082	3082	3082	3082	3082	
5°	3079	3069	3035	3066	3058	292
15°	2930	2922	2886	2902	2897	826
25°	2657	2642	2606	2614	2611	1224
35°	2298	2280	2239	2231	2226	1436
45°	1874	1866	1827	1807	1791	1447
55°	1419	1419	1383	1357	1347	1271
65°	961	951	925	902	894	953
75°	506	496	486	478	470	536
85°	126	126	123	118	113	147
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3081.6	3081.6	3081.6	3081.6	3081.6
2.5°	3094.4	3084.2	3050.8	3079.0	3076.4
5°	3079.0	3068.8	3035.4	3066.2	3058.4
7.5°	3058.4	3045.6	3009.6	3037.8	3035.4
10°	3025.0	3012.2	2976.2	3001.8	2999.4
12.5°	2983.8	2971.0	2935.0	2955.6	2950.4
15°	2930.0	2922.2	2886.2	2901.6	2896.6
17.5°	2873.4	2860.6	2822.0	2837.4	2837.4
20°	2809.2	2796.2	2757.8	2773.2	2762.8
22.5°	2734.6	2719.2	2688.4	2696.0	2685.8
25°	2657.4	2642.0	2606.0	2613.8	2611.2
27.5°	2572.6	2557.2	2518.8	2518.8	2513.6
30°	2485.2	2472.4	2436.4	2426.2	2413.4
32.5°	2392.8	2374.8	2341.4	2333.6	2323.4
35°	2297.6	2279.6	2238.6	2230.8	2225.8
37.5°	2192.4	2179.4	2146.0	2125.4	2112.6
40°	2097.2	2076.6	2038.0	2020.2	2007.2
42.5°	1984.2	1973.8	1932.8	1914.8	1899.4
45°	1873.6	1866.0	1827.4	1806.8	1791.4
47.5°	1768.2	1755.4	1716.8	1691.2	1683.4
50°	1647.4	1639.8	1606.4	1583.2	1573.0
52.5°	1537.0	1529.2	1495.8	1470.2	1459.8
55°	1418.8	1418.8	1382.8	1357.0	1346.8
57.5°	1310.8	1300.4	1267.0	1246.6	1233.6
60°	1190.0	1182.2	1156.6	1128.2	1123.2
62.5°	1079.4	1069.2	1038.4	1017.8	1012.6
65°	961.2	951.0	925.2	902.2	894.4
67.5°	850.8	832.8	812.2	791.6	781.4
70°	730.0	719.6	699.0	683.6	673.4
72.5°	614.2	604.0	591.2	578.2	573.2
75°	506.4	496.0	485.8	478.0	470.4
77.5°	398.4	393.2	385.6	375.2	375.2
80°	298.2	293.0	287.8	280.2	277.6
82.5°	208.2	205.6	200.4	197.8	197.8
85°	126.0	126.0	123.4	118.2	113.0
87.5°	56.6	51.4	51.4	46.2	46.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)