

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: P273760

Luminaire Tested: **4RCG-4-78D-L835**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P273760  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1804-709-7-R2)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4RCG-4-78D-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**

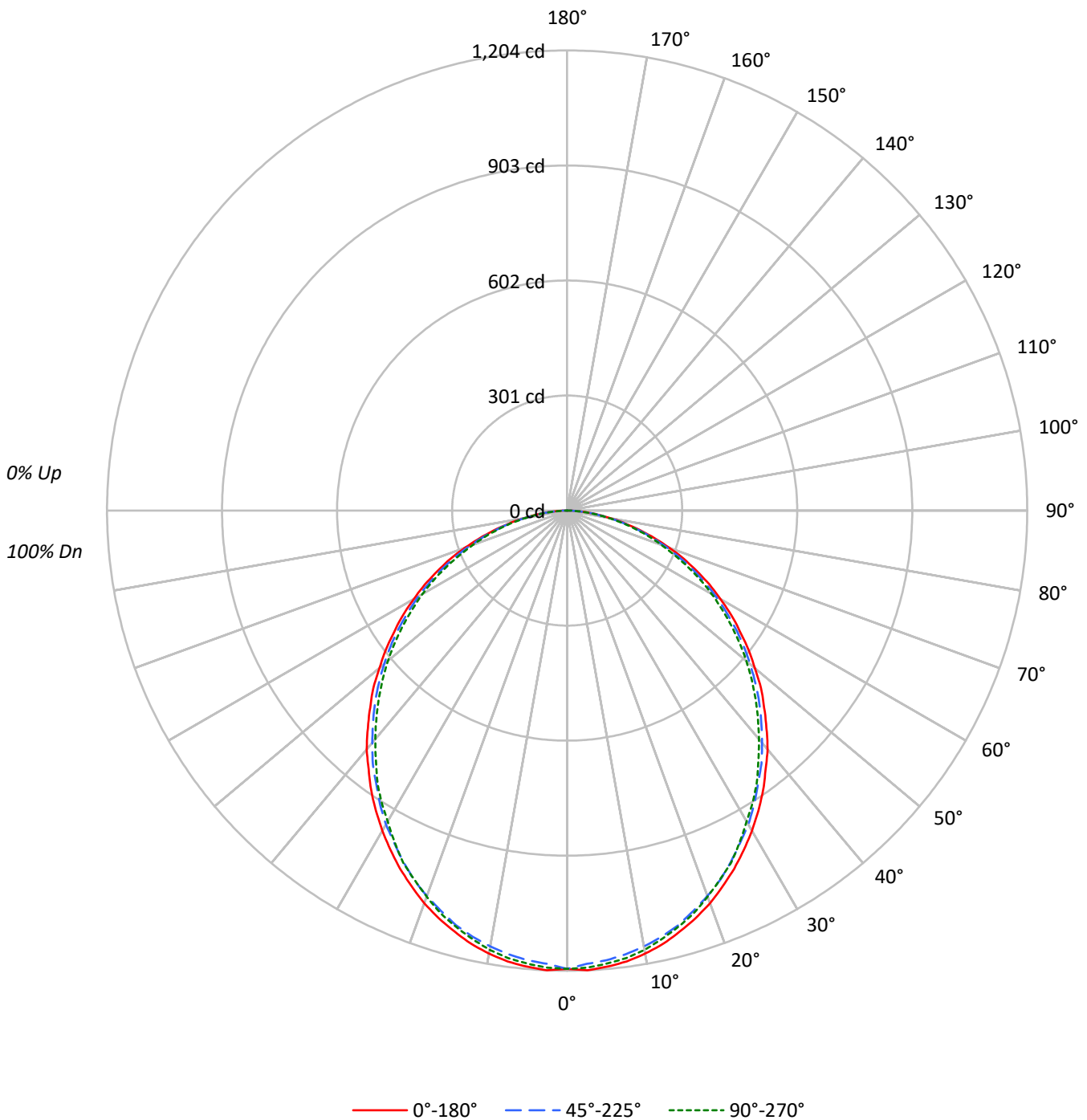
Lumens per Lamp: N/A  
Luminaire Lumens: 3094.0 lumens  
Efficiency: N/A  
Efficacy: 119.5 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.3  
Luminous Opening: Rectangular (W 0.23' x L: 3.88' x H: 0')  
CIE Type: Direct

Input Watts (W): 25.9  
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°	14533	14533	14533
5°	14577	14370	14479
10°	14487	14253	14364
15°	14306	14092	14143
20°	14099	13841	13867
25°	13829	13562	13588
30°	13535	13269	13143
35°	13229	12888	12814
40°	12912	12548	12358
45°	12497	12188	11948
50°	12088	11786	11541
55°	11665	11369	11074
60°	11224	10909	10594
65°	10727	10325	9981
70°	10065	9640	9285
75°	9226	8851	8570
80°	8097	7818	7539
85°	6815	6676	6119



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	112.9	3.6
10°-20°	318.5	10.3
20°-30°	469.8	15.2
30°-40°	548.2	17.7
40°-50°	550.0	17.8
50°-60°	481.8	15.6
60°-70°	357.2	11.5
70°-80°	200.9	6.5
80°-90°	54.7	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°	901.2	29.1
0°-40°	1449.4	46.8
0°-60°	2481.2	80.2
0°-90°	3094.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3094.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1199	1199	1199	1199	1199	
5°	1198	1194	1181	1193	1190	114
15°	1140	1137	1123	1129	1127	322
25°	1034	1028	1014	1017	1016	476
35°	894	887	871	868	866	559
45°	729	726	711	703	697	563
55°	552	552	538	528	524	495
65°	374	370	360	351	348	371
75°	197	193	189	186	183	209
85°	49	49	48	46	44	57
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1199	1199	1199	1199	1199
2.5°	1204	1200	1187	1198	1197
5°	1198	1194	1181	1193	1190
7.5°	1190	1185	1171	1182	1181
10°	1177	1172	1158	1168	1167
12.5°	1161	1156	1142	1150	1148
15°	1140	1137	1123	1129	1127
17.5°	1118	1113	1098	1104	1104
20°	1093	1088	1073	1079	1075
22.5°	1064	1058	1046	1049	1045
25°	1034	1028	1014	1017	1016
27.5°	1001	995	980	980	978
30°	967	962	948	944	939
32.5°	931	924	911	908	904
35°	894	887	871	868	866
37.5°	853	848	835	827	822
40°	816	808	793	786	781
42.5°	772	768	752	745	739
45°	729	726	711	703	697
47.5°	688	683	668	658	655
50°	641	638	625	616	612
52.5°	598	595	582	572	568
55°	552	552	538	528	524
57.5°	510	506	493	485	480
60°	463	460	450	439	437
62.5°	420	416	404	396	394
65°	374	370	360	351	348
67.5°	331	324	316	308	304
70°	284	280	272	266	262
72.5°	239	235	230	225	223
75°	197	193	189	186	183
77.5°	155	153	150	146	146
80°	116	114	112	109	108
82.5°	81	80	78	77	77
85°	49	49	48	46	44
87.5°	22	20	20	18	18
90°	0	0	0	0	0

(END OF REPORT)