

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: P273763

Luminaire Tested: **4RCG-4-78D-L840**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P273763
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: 4RCG-4-78D-L840
Description: RCG SERIES DIRECT RECESSED LED LUMINAIRE WITH FROST FLUSH LENS
Light Source: (168) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

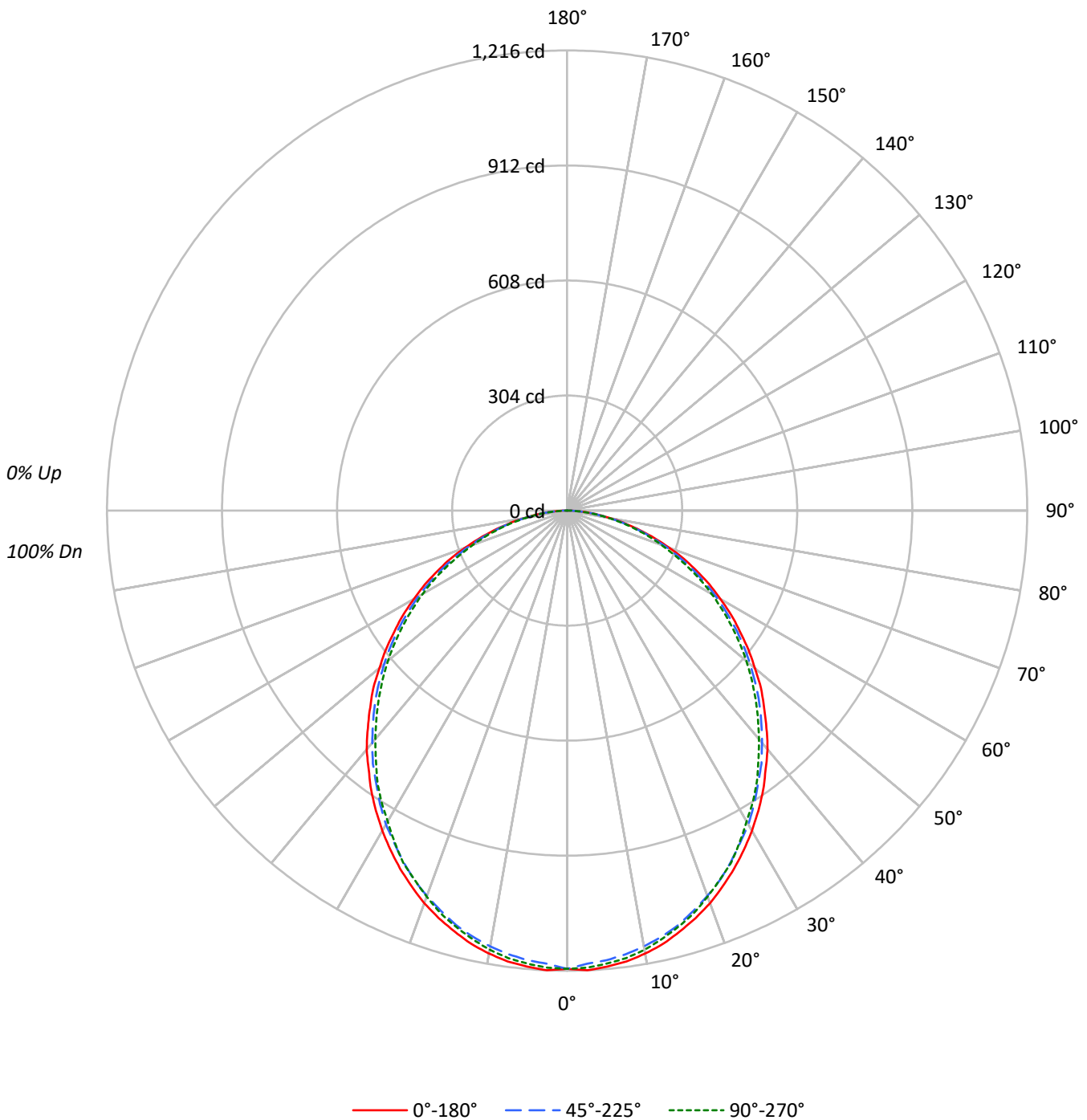
Lumens per Lamp: N/A
Luminaire Lumens: 3124.5 lumens
Efficiency: N/A
Efficacy: 120.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.3
Luminous Opening: Rectangular (W 0.23' x L: 3.88' x H: 0')
CIE Type: Direct

Input Watts (W): 26
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°	14676	14676	14676
5°	14720	14511	14622
10°	14630	14393	14505
15°	14446	14232	14282
20°	14238	13978	14003
25°	13965	13695	13722
30°	13667	13400	13273
35°	13359	13016	12940
40°	13038	12671	12480
45°	12620	12308	12066
50°	12206	11903	11654
55°	11779	11481	11183
60°	11336	11016	10698
65°	10833	10429	10079
70°	10164	9735	9377
75°	9315	8940	8655
80°	8174	7895	7616
85°	6884	6745	6175



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.0	3.6
10°-20°	321.6	10.3
20°-30°	474.5	15.2
30°-40°	553.6	17.7
40°-50°	555.4	17.8
50°-60°	486.5	15.6
60°-70°	360.7	11.5
70°-80°	202.9	6.5
80°-90°	55.3	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°	910.1	29.1
0°-40°	1463.7	46.8
0°-60°	2505.6	80.2
0°-90°	3124.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3124.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1211	1211	1211	1211	1211	
5°	1210	1206	1193	1205	1202	115
15°	1151	1148	1134	1140	1138	325
25°	1044	1038	1024	1027	1026	481
35°	903	896	880	877	874	564
45°	736	733	718	710	704	569
55°	557	557	543	533	529	499
65°	378	374	364	354	351	374
75°	199	195	191	188	185	211
85°	50	50	48	46	44	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1210.8	1210.8	1210.8	1210.8	1210.8
2.5°	1215.9	1211.8	1198.7	1209.8	1208.8
5°	1209.8	1205.8	1192.6	1204.8	1201.7
7.5°	1201.7	1196.7	1182.6	1193.7	1192.6
10°	1188.6	1183.6	1169.4	1179.5	1178.5
12.5°	1172.5	1167.4	1153.3	1161.3	1159.3
15°	1151.2	1148.2	1134.1	1140.1	1138.1
17.5°	1129.0	1124.0	1108.8	1114.9	1114.9
20°	1103.8	1098.7	1083.6	1089.6	1085.6
22.5°	1074.5	1068.4	1056.3	1059.3	1055.3
25°	1044.2	1038.1	1024.0	1027.0	1026.0
27.5°	1010.9	1004.8	989.7	989.7	987.6
30°	976.5	971.5	957.4	953.3	948.3
32.5°	940.2	933.1	920.0	917.0	912.9
35°	902.8	895.7	879.6	876.6	874.5
37.5°	861.4	856.4	843.2	835.2	830.1
40°	824.0	816.0	800.8	793.8	788.7
42.5°	779.6	775.6	759.4	752.3	746.3
45°	736.2	733.2	718.0	709.9	703.9
47.5°	694.8	689.7	674.6	664.5	661.5
50°	647.3	644.3	631.2	622.1	618.0
52.5°	603.9	600.9	587.7	577.6	573.6
55°	557.4	557.4	543.3	533.2	529.2
57.5°	515.0	511.0	497.9	489.8	484.7
60°	467.6	464.5	454.4	443.3	441.3
62.5°	424.1	420.1	408.0	399.9	397.9
65°	377.7	373.6	363.6	354.5	351.4
67.5°	334.3	327.2	319.1	311.0	307.0
70°	286.8	282.8	274.7	268.6	264.6
72.5°	241.4	237.3	232.3	227.2	225.2
75°	198.9	194.9	190.9	187.8	184.8
77.5°	156.5	154.5	151.5	147.4	147.4
80°	117.1	115.1	113.1	110.1	109.1
82.5°	81.8	80.8	78.8	77.8	77.8
85°	49.5	49.5	48.5	46.5	44.4
87.5°	22.2	20.2	20.2	18.2	18.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)