

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: P273727

Luminaire Tested: **8RCG-4-34D-L930**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P273727
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-L930
Description: RCG SERIES DIRECT RECESSED LED LUMINAIRE WITH FROST FLUSH LENS
Light Source: (168) 3000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

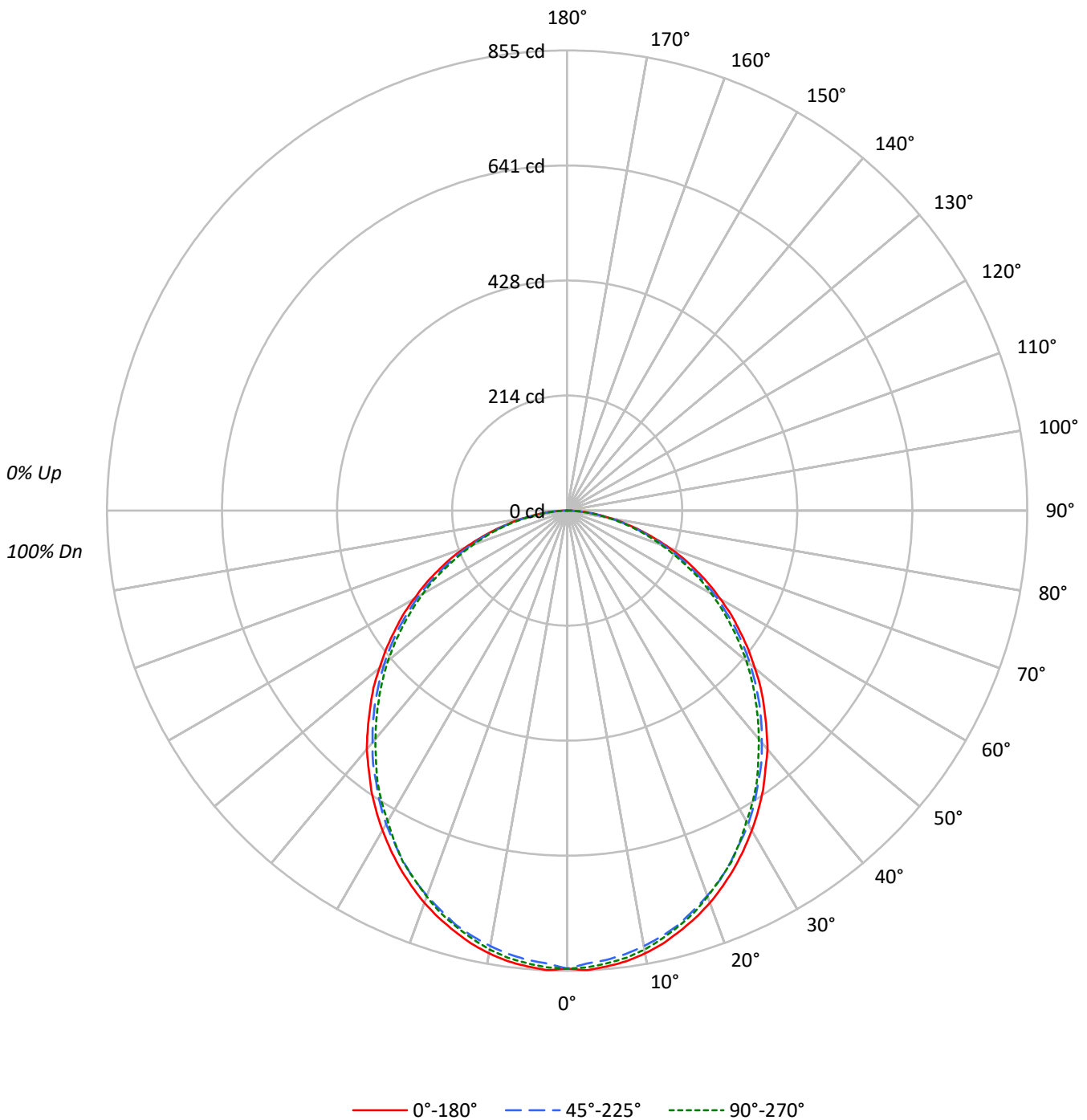
Lumens per Lamp: N/A
Luminaire Lumens: 2195.8 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.3
Luminous Opening: Rectangular (W 0.23' x L: 7.88' x H: 0')
CIE Type: Direct

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



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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°	5076	5076	5076
5°	5090	5018	5057
10°	5060	4977	5016
15°	4995	4921	4939
20°	4924	4834	4843
25°	4829	4736	4745
30°	4726	4634	4590
35°	4619	4501	4475
40°	4510	4382	4315
45°	4364	4256	4172
50°	4222	4116	4031
55°	4074	3970	3866
60°	3920	3810	3700
65°	3746	3604	3486
70°	3516	3366	3244
75°	3222	3093	2991
80°	2830	2727	2631
85°	2382	2327	2135



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.1	3.6
10°-20°	226.0	10.3
20°-30°	333.4	15.2
30°-40°	389.0	17.7
40°-50°	390.3	17.8
50°-60°	341.9	15.6
60°-70°	253.5	11.5
70°-80°	142.6	6.5
80°-90°	38.8	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°	639.6	29.1
0°-40°	1028.7	46.8
0°-60°	1760.9	80.2
0°-90°	2195.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2195.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	851	851	851	851	851	
5°	850	847	838	847	845	81
15°	809	807	797	801	800	228
25°	734	730	720	722	721	338
35°	634	630	618	616	615	397
45°	517	515	505	499	495	400
55°	392	392	382	375	372	351
65°	265	263	255	249	247	263
75°	140	137	134	132	130	148
85°	35	35	34	33	31	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	851.0	851.0	851.0	851.0	851.0
2.5°	854.6	851.6	842.4	850.2	849.6
5°	850.2	847.4	838.2	846.6	844.6
7.5°	844.6	841.0	831.0	838.8	838.2
10°	835.4	831.8	821.8	829.0	828.2
12.5°	824.0	820.4	810.4	816.2	814.8
15°	809.0	807.0	797.0	801.2	799.8
17.5°	793.4	790.0	779.2	783.6	783.6
20°	775.8	772.2	761.6	765.8	763.0
22.5°	755.2	750.8	742.4	744.4	741.6
25°	733.8	729.6	719.6	721.8	721.0
27.5°	710.4	706.2	695.6	695.6	694.2
30°	686.2	682.8	672.8	670.0	666.4
32.5°	660.8	655.8	646.6	644.4	641.6
35°	634.4	629.6	618.2	616.0	614.6
37.5°	605.4	601.8	592.6	587.0	583.4
40°	579.2	573.4	562.8	557.8	554.2
42.5°	548.0	545.0	533.8	528.8	524.4
45°	517.4	515.2	504.6	499.0	494.6
47.5°	488.2	484.8	474.0	467.0	464.8
50°	455.0	452.8	443.6	437.2	434.4
52.5°	424.4	422.2	413.0	406.0	403.2
55°	391.8	391.8	381.8	374.8	371.8
57.5°	362.0	359.2	349.8	344.2	340.6
60°	328.6	326.4	319.4	311.6	310.2
62.5°	298.0	295.2	286.8	281.0	279.6
65°	265.4	262.6	255.4	249.2	247.0
67.5°	235.0	230.0	224.2	218.6	215.8
70°	201.6	198.8	193.0	188.8	186.0
72.5°	169.6	166.8	163.2	159.6	158.2
75°	139.8	137.0	134.2	132.0	129.8
77.5°	110.0	108.6	106.4	103.6	103.6
80°	82.4	81.0	79.4	77.4	76.6
82.5°	57.4	56.8	55.4	54.6	54.6
85°	34.8	34.8	34.0	32.6	31.2
87.5°	15.6	14.2	14.2	12.8	12.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)