

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: P273715

Luminaire Tested: **8RCG-4-34D-L830**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P273715
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-L830
Description: RCG SERIES DIRECT RECESSED LED LUMINAIRE WITH FROST FLUSH LENS
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

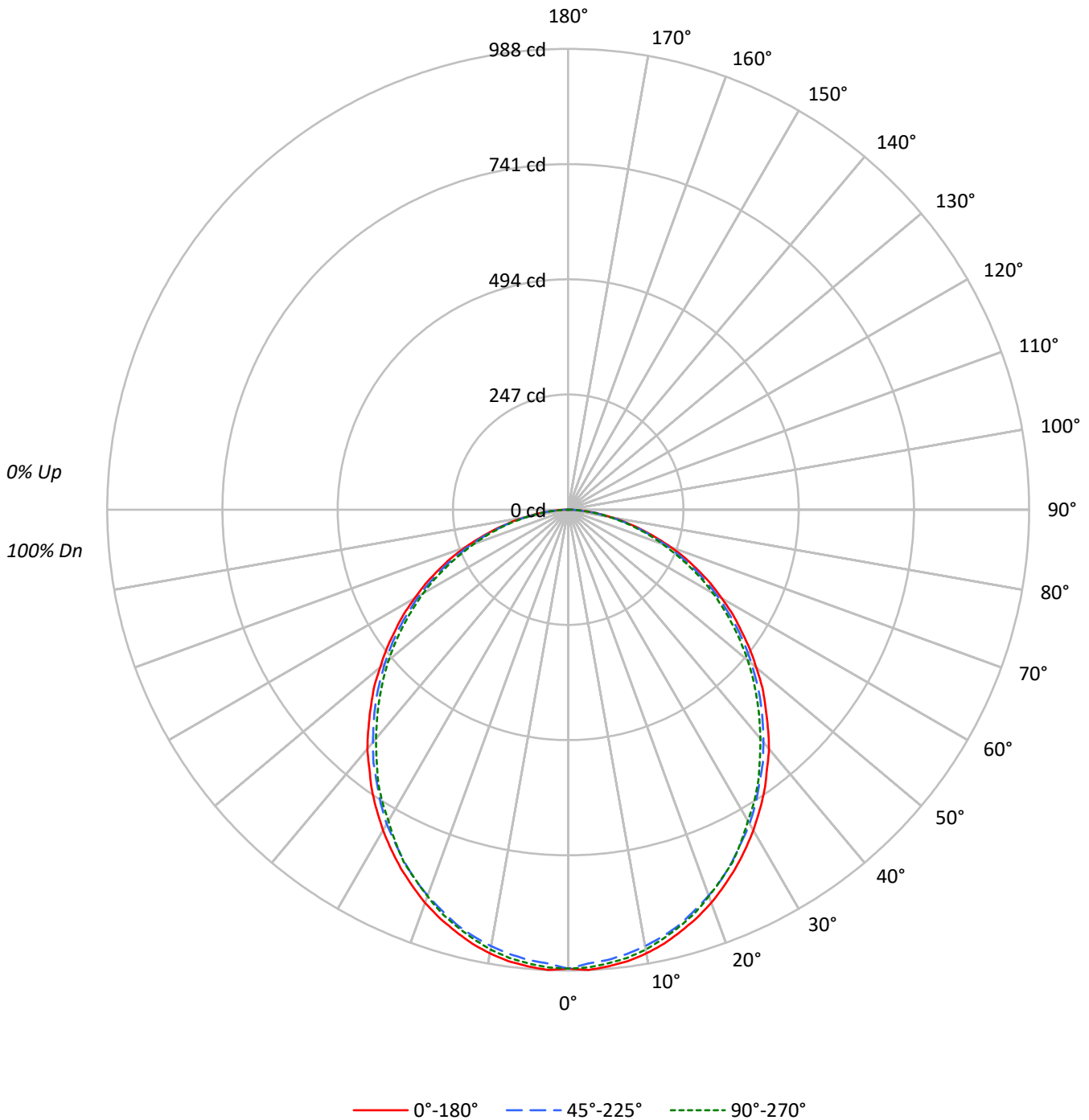
Lumens per Lamp: N/A
Luminaire Lumens: 2538.6 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.3
Luminous Opening: Rectangular (W 0.23' x L: 7.88' x H: 0')
CIE Type: Direct

Input Watts (W): 22.8
Input Voltage (V): 120
Input Current (A_{in}): 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	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					100			
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84					84			
2	99	91	84	79	97	89	83	78	86	81	76	82	78	74	79	76	73	70					70			
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60					60			
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51					51			
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44					44			
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39					39			
7	66	52	44	38	64	51	43	37	50	43	37	48	42	37	47	41	37	35					35			
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31					31			
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	28	52	40	33	27	39	32	27	38	32	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5868	5868	5868
5°	5885	5802	5846
10°	5849	5755	5800
15°	5776	5689	5709
20°	5692	5588	5598
25°	5583	5475	5486
30°	5464	5357	5306
35°	5341	5203	5174
40°	5213	5066	4989
45°	5046	4921	4823
50°	4881	4758	4660
55°	4711	4590	4471
60°	4531	4404	4278
65°	4330	4169	4031
70°	4063	3892	3749
75°	3724	3572	3461
80°	3270	3153	3043
85°	2751	2696	2477



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.6	3.6
10°-20°	261.3	10.3
20°-30°	385.5	15.2
30°-40°	449.8	17.7
40°-50°	451.2	17.8
50°-60°	395.3	15.6
60°-70°	293.1	11.5
70°-80°	164.8	6.5
80°-90°	44.9	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°	739.4	29.1
0°-40°	1189.2	46.8
0°-60°	2035.8	80.2
0°-90°	2538.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2538.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	984	984	984	984	984	
5°	983	980	969	979	976	93
15°	935	933	921	926	925	264
25°	848	843	832	834	834	391
35°	734	728	715	712	711	458
45°	598	596	583	577	572	462
55°	453	453	441	433	430	406
65°	307	304	295	288	286	304
75°	162	158	155	153	150	171
85°	40	40	39	38	36	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	983.8	983.8	983.8	983.8	983.8
2.5°	987.8	984.6	974.0	983.0	982.2
5°	983.0	979.6	969.0	978.8	976.4
7.5°	976.4	972.2	960.8	969.8	969.0
10°	965.8	961.6	950.2	958.4	957.6
12.5°	952.6	948.4	937.0	943.6	942.0
15°	935.4	932.8	921.4	926.4	924.6
17.5°	917.4	913.2	900.8	905.8	905.8
20°	896.8	892.6	880.4	885.4	882.0
22.5°	873.0	868.0	858.2	860.6	857.4
25°	848.4	843.4	832.0	834.4	833.6
27.5°	821.4	816.4	804.0	804.0	802.4
30°	793.4	789.4	777.8	774.6	770.4
32.5°	763.8	758.2	747.4	745.0	741.8
35°	733.6	727.8	714.6	712.2	710.6
37.5°	699.8	695.8	685.2	678.6	674.4
40°	669.6	663.0	650.6	645.0	640.8
42.5°	633.4	630.2	617.0	611.2	606.4
45°	598.2	595.6	583.4	576.8	571.8
47.5°	564.4	560.4	548.0	539.8	537.4
50°	526.0	523.4	512.8	505.4	502.2
52.5°	490.6	488.2	477.6	469.4	466.0
55°	453.0	453.0	441.4	433.2	430.0
57.5°	418.4	415.2	404.4	398.0	393.8
60°	379.8	377.4	369.2	360.2	358.6
62.5°	344.6	341.4	331.4	325.0	323.2
65°	306.8	303.6	295.4	288.0	285.6
67.5°	271.6	265.8	259.2	252.8	249.4
70°	233.0	229.8	223.2	218.2	215.0
72.5°	196.0	192.8	188.8	184.6	183.0
75°	161.6	158.4	155.0	152.6	150.2
77.5°	127.2	125.6	123.0	119.8	119.8
80°	95.2	93.6	91.8	89.4	88.6
82.5°	66.4	65.6	64.0	63.2	63.2
85°	40.2	40.2	39.4	37.8	36.2
87.5°	18.0	16.4	16.4	14.8	14.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)