

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: P273733

Luminaire Tested: **8RCG-4-34D-L940**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P273733
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-L940
Description: RCG SERIES DIRECT RECESSED LED LUMINAIRE WITH FROST FLUSH LENS
Light Source: (168) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

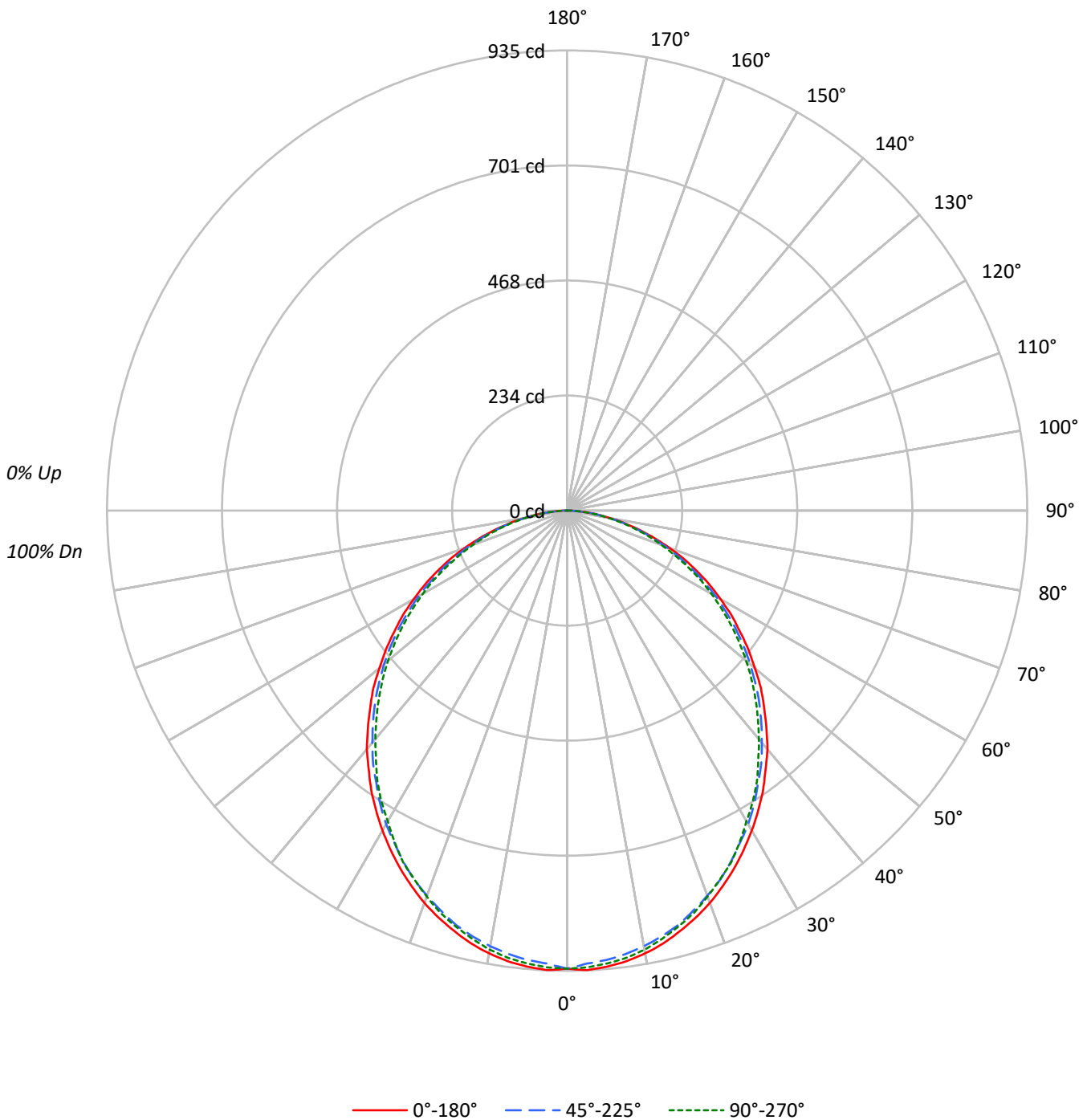
Lumens per Lamp: N/A
Luminaire Lumens: 2401.7 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.3
Luminous Opening: Rectangular (W 0.23' x L: 7.88' x H: 0')
CIE Type: Direct

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°	5552	5552	5552
5°	5568	5489	5531
10°	5533	5444	5486
15°	5465	5383	5402
20°	5385	5286	5296
25°	5282	5181	5190
30°	5169	5068	5019
35°	5053	4924	4894
40°	4932	4793	4720
45°	4772	4656	4563
50°	4617	4502	4408
55°	4455	4342	4230
60°	4287	4168	4046
65°	4098	3943	3813
70°	3844	3683	3547
75°	3526	3383	3272
80°	3091	2988	2878
85°	2600	2546	2340



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.6	3.6
10°-20°	247.2	10.3
20°-30°	364.7	15.2
30°-40°	425.5	17.7
40°-50°	426.9	17.8
50°-60°	374.0	15.6
60°-70°	277.3	11.5
70°-80°	155.9	6.5
80°-90°	42.5	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°	699.6	29.1
0°-40°	1125.1	46.8
0°-60°	1926.0	80.2
0°-90°	2401.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2401.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	931	931	931	931	931	
5°	930	927	917	926	924	88
15°	885	883	872	876	875	250
25°	803	798	787	789	789	370
35°	694	689	676	674	672	434
45°	566	564	552	546	541	437
55°	428	428	418	410	407	384
65°	290	287	279	272	270	288
75°	153	150	147	144	142	162
85°	38	38	37	36	34	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	930.8	930.8	930.8	930.8	930.8
2.5°	934.6	931.4	921.4	930.0	929.2
5°	930.0	926.8	916.8	926.0	923.8
7.5°	923.8	919.8	909.0	917.6	916.8
10°	913.6	909.8	898.8	906.6	905.8
12.5°	901.2	897.4	886.4	892.6	891.2
15°	885.0	882.6	871.8	876.4	874.8
17.5°	867.8	864.0	852.4	857.0	857.0
20°	848.4	844.6	832.8	837.6	834.4
22.5°	826.0	821.2	812.0	814.2	811.2
25°	802.6	798.0	787.2	789.4	788.6
27.5°	777.0	772.4	760.8	760.8	759.2
30°	750.6	746.8	735.8	732.8	728.8
32.5°	722.6	717.2	707.2	704.8	701.8
35°	694.0	688.6	676.2	673.8	672.2
37.5°	662.2	658.2	648.2	642.0	638.0
40°	633.4	627.2	615.6	610.2	606.2
42.5°	599.2	596.2	583.8	578.2	573.6
45°	565.8	563.6	552.0	545.6	541.0
47.5°	534.0	530.2	518.6	510.8	508.4
50°	497.6	495.2	485.2	478.2	475.0
52.5°	464.2	461.8	451.8	444.0	441.0
55°	428.4	428.4	417.6	409.8	406.8
57.5°	395.8	392.8	382.6	376.4	372.6
60°	359.4	357.0	349.4	340.8	339.2
62.5°	326.0	323.0	313.6	307.4	305.8
65°	290.4	287.2	279.4	272.4	270.2
67.5°	257.0	251.6	245.2	239.0	236.0
70°	220.4	217.4	211.2	206.4	203.4
72.5°	185.6	182.4	178.6	174.6	173.2
75°	153.0	149.8	146.8	144.4	142.0
77.5°	120.4	118.8	116.4	113.4	113.4
80°	90.0	88.4	87.0	84.6	83.8
82.5°	62.8	62.0	60.6	59.8	59.8
85°	38.0	38.0	37.2	35.8	34.2
87.5°	17.0	15.6	15.6	14.0	14.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)