

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: P273751

Luminaire Tested: **4RCG-4-56D-L935**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P273751
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-4-56D-L935
Description: RCG SERIES DIRECT RECESSED LED LUMINAIRE WITH FROST FLUSH LENS
Light Source: (168) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

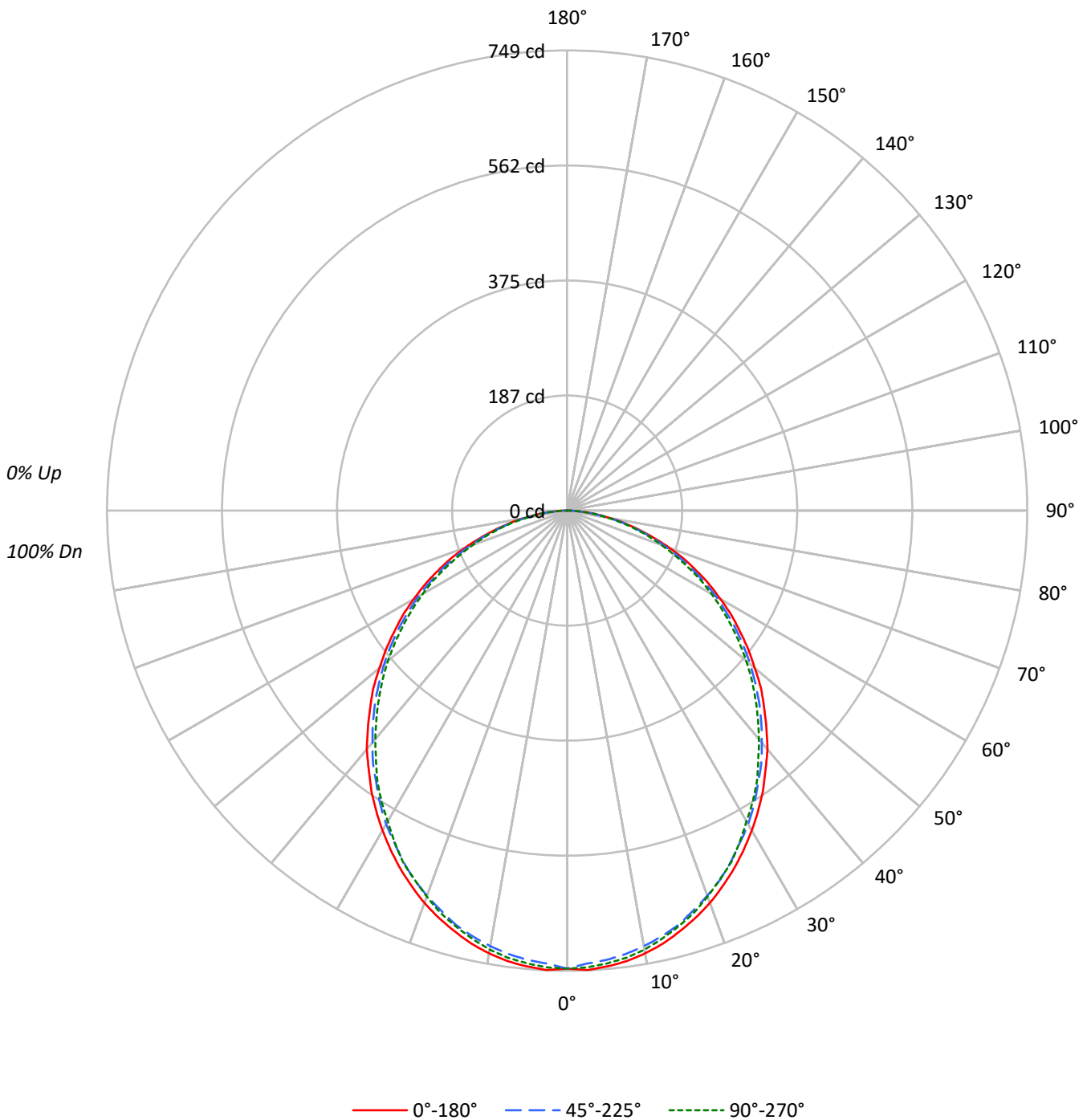
Lumens per Lamp: N/A
Luminaire Lumens: 1923.7 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.3
Luminous Opening: Rectangular (W 0.23' x L: 3.88' x H: 0')
CIE Type: Direct

Input Watts (W): 18.6
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°	9036	9036	9036
5°	9064	8935	9003
10°	9007	8862	8931
15°	8895	8762	8793
20°	8766	8605	8622
25°	8598	8432	8449
30°	8415	8249	8171
35°	8224	8013	7967
40°	8029	7802	7684
45°	7770	7578	7429
50°	7515	7328	7175
55°	7253	7069	6885
60°	6979	6783	6587
65°	6668	6419	6207
70°	6259	5993	5773
75°	5737	5503	5330
80°	5033	4858	4684
85°	4242	4144	3811



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.2	3.6
10°-20°	198.0	10.3
20°-30°	292.1	15.2
30°-40°	340.8	17.7
40°-50°	342.0	17.8
50°-60°	299.6	15.6
60°-70°	222.1	11.5
70°-80°	124.9	6.5
80°-90°	34.0	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°	560.3	29.1
0°-40°	901.2	46.8
0°-60°	1542.7	80.2
0°-90°	1923.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1923.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	746	746	746	746	746	
5°	745	742	734	742	740	71
15°	709	707	698	702	701	200
25°	643	639	630	632	632	296
35°	556	552	542	540	538	347
45°	453	451	442	437	433	350
55°	343	343	334	328	326	308
65°	232	230	224	218	216	230
75°	122	120	118	116	114	130
85°	30	30	30	29	27	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	745.5	745.5	745.5	745.5	745.5
2.5°	748.6	746.1	738.0	744.9	744.2
5°	744.9	742.4	734.3	741.8	739.9
7.5°	739.9	736.8	728.1	734.9	734.3
10°	731.8	728.7	720.0	726.2	725.6
12.5°	721.9	718.7	710.0	715.0	713.8
15°	708.8	706.9	698.2	702.0	700.7
17.5°	695.1	692.0	682.7	686.4	686.4
20°	679.6	676.5	667.1	670.9	668.4
22.5°	661.5	657.8	650.4	652.2	649.7
25°	642.9	639.2	630.5	632.3	631.7
27.5°	622.4	618.6	609.3	609.3	608.1
30°	601.2	598.1	589.4	586.9	583.8
32.5°	578.9	574.5	566.4	564.6	562.1
35°	555.8	551.5	541.5	539.7	538.4
37.5°	530.4	527.2	519.2	514.2	511.1
40°	507.4	502.4	493.1	488.7	485.6
42.5°	480.0	477.5	467.6	463.2	459.5
45°	453.3	451.4	442.1	437.1	433.4
47.5°	427.8	424.7	415.3	409.1	407.3
50°	398.5	396.7	388.6	383.0	380.5
52.5°	371.8	369.9	361.9	355.6	353.2
55°	343.2	343.2	334.5	328.3	325.8
57.5°	317.1	314.6	306.5	301.6	298.4
60°	287.9	286.0	279.8	273.0	271.7
62.5°	261.1	258.7	251.2	246.2	245.0
65°	232.5	230.0	223.8	218.2	216.4
67.5°	205.8	201.4	196.5	191.5	189.0
70°	176.6	174.1	169.1	165.4	162.9
72.5°	148.6	146.1	143.0	139.9	138.7
75°	122.5	120.0	117.5	115.6	113.8
77.5°	96.4	95.1	93.3	90.8	90.8
80°	72.1	70.9	69.6	67.8	67.1
82.5°	50.4	49.7	48.5	47.9	47.9
85°	30.5	30.5	29.8	28.6	27.4
87.5°	13.7	12.4	12.4	11.2	11.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)