

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: P273754

Luminaire Tested: **4RCG-4-56D-L940**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P273754
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-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

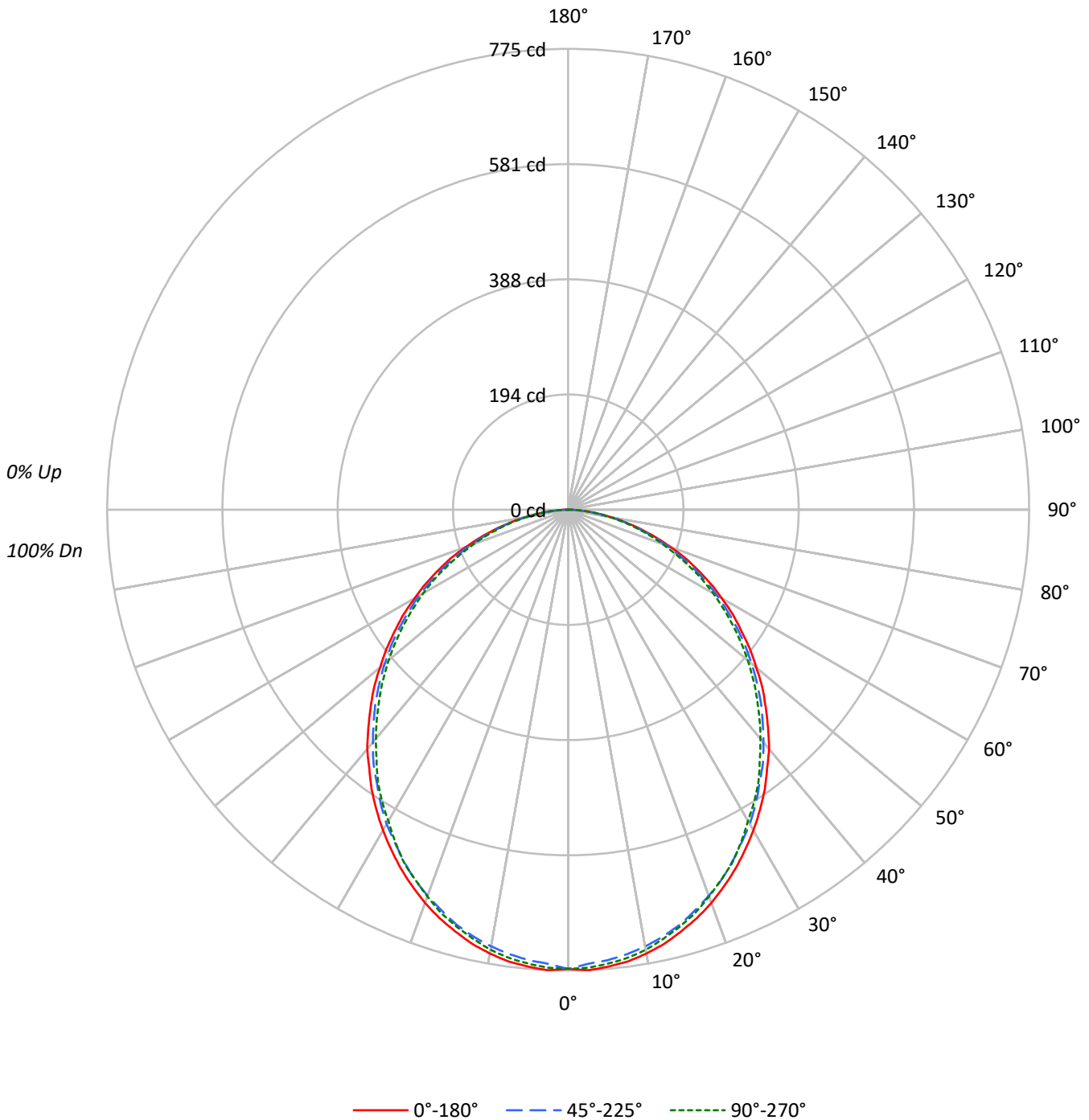
Lumens per Lamp: N/A
Luminaire Lumens: 1992.3 lumens
Efficiency: N/A
Efficacy: 107.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.3
Luminous Opening: Rectangular (W 0.23' x L: 3.88' x H: 0')
CIE Type: Direct

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°	9359	9359	9359
5°	9386	9253	9324
10°	9328	9178	9250
15°	9212	9074	9107
20°	9078	8912	8929
25°	8905	8732	8749
30°	8716	8543	8464
35°	8519	8300	8251
40°	8313	8079	7957
45°	8046	7848	7693
50°	7784	7590	7432
55°	7513	7320	7130
60°	7227	7025	6822
65°	6906	6648	6427
70°	6482	6206	5979
75°	5943	5700	5517
80°	5214	5033	4851
85°	4395	4297	3936



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.7	3.6
10°-20°	205.1	10.3
20°-30°	302.5	15.2
30°-40°	353.0	17.7
40°-50°	354.1	17.8
50°-60°	310.2	15.6
60°-70°	230.0	11.5
70°-80°	129.3	6.5
80°-90°	35.3	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°	580.3	29.1
0°-40°	933.3	46.8
0°-60°	1597.7	80.2
0°-90°	1992.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1992.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	772	772	772	772	772	
5°	771	769	760	768	766	73
15°	734	732	723	727	726	207
25°	666	662	653	655	654	307
35°	576	571	561	559	558	360
45°	469	468	458	453	449	363
55°	356	356	346	340	337	319
65°	241	238	232	226	224	239
75°	127	124	122	120	118	134
85°	32	32	31	30	28	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	772.1	772.1	772.1	772.1	772.1
2.5°	775.3	772.7	764.3	771.4	770.8
5°	771.4	768.9	760.5	768.2	766.3
7.5°	766.3	763.1	754.0	761.1	760.5
10°	757.9	754.7	745.7	752.1	751.5
12.5°	747.6	744.4	735.4	740.5	739.2
15°	734.1	732.2	723.1	727.0	725.7
17.5°	719.9	716.7	707.0	710.9	710.9
20°	703.8	700.6	690.9	694.8	692.2
22.5°	685.1	681.3	673.6	675.5	672.9
25°	665.8	662.0	652.9	654.9	654.2
27.5°	644.6	640.7	631.1	631.1	629.8
30°	622.7	619.5	610.4	607.9	604.7
32.5°	599.5	595.0	586.6	584.7	582.1
35°	575.7	571.2	560.9	558.9	557.6
37.5°	549.3	546.1	537.7	532.5	529.3
40°	525.4	520.3	510.6	506.1	502.9
42.5°	497.1	494.5	484.2	479.7	475.9
45°	469.4	467.5	457.8	452.7	448.8
47.5°	443.0	439.8	430.1	423.7	421.8
50°	412.8	410.8	402.5	396.7	394.1
52.5°	385.1	383.1	374.8	368.3	365.8
55°	355.5	355.5	346.4	340.0	337.4
57.5°	328.4	325.8	317.5	312.3	309.1
60°	298.1	296.2	289.8	282.7	281.4
62.5°	270.5	267.9	260.1	255.0	253.7
65°	240.8	238.3	231.8	226.0	224.1
67.5°	213.1	208.6	203.5	198.3	195.8
70°	182.9	180.3	175.1	171.3	168.7
72.5°	153.9	151.3	148.1	144.9	143.6
75°	126.9	124.3	121.7	119.8	117.8
77.5°	99.8	98.5	96.6	94.0	94.0
80°	74.7	73.4	72.1	70.2	69.5
82.5°	52.2	51.5	50.2	49.6	49.6
85°	31.6	31.6	30.9	29.6	28.3
87.5°	14.2	12.9	12.9	11.6	11.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)