

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: P273748

Luminaire Tested: **4RCG-4-56D-L930**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P273748
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-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

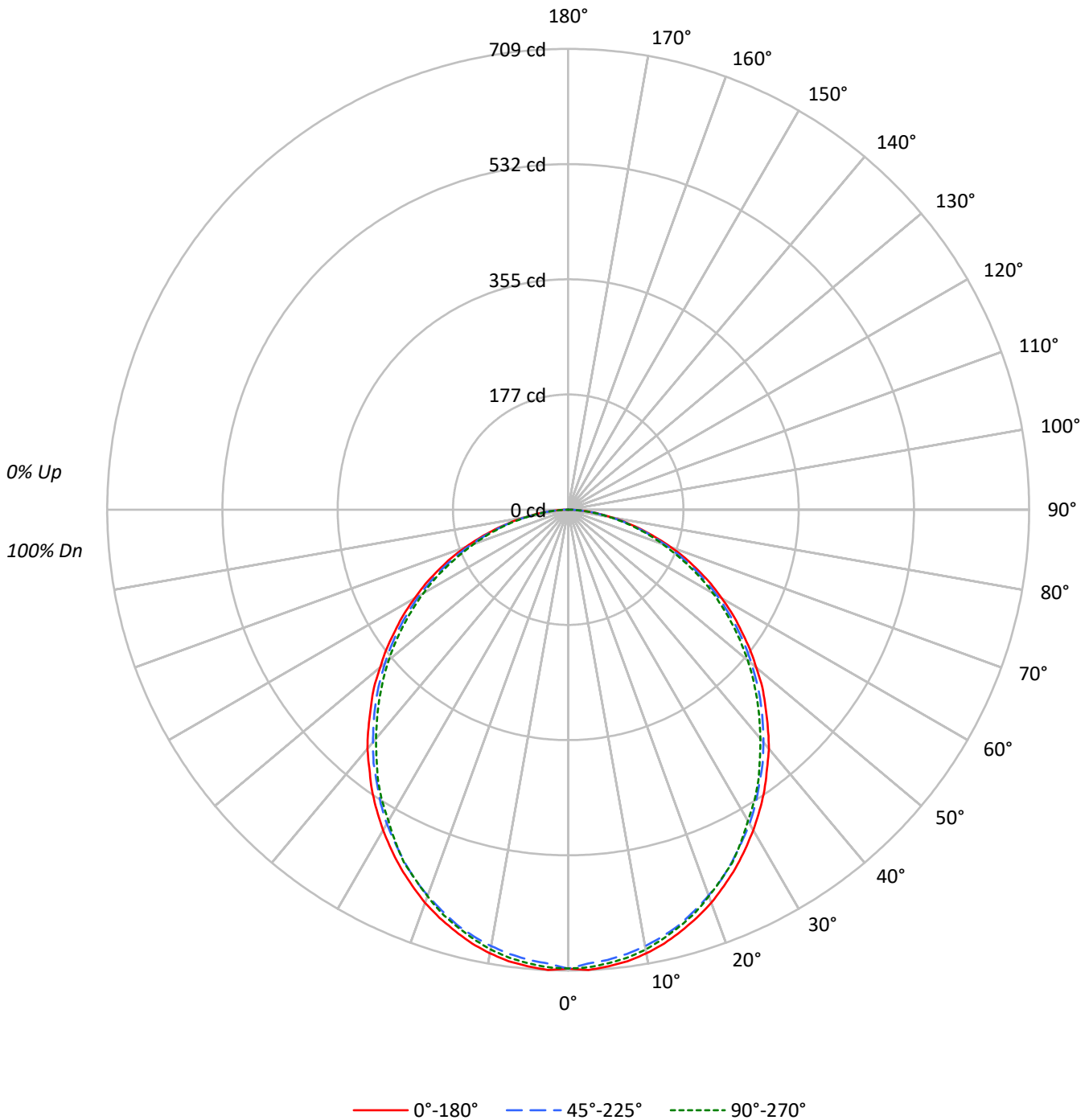
Lumens per Lamp: N/A
Luminaire Lumens: 1821.6 lumens
Efficiency: N/A
Efficacy: 97.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.3
Luminous Opening: Rectangular (W 0.23' x L: 3.88' x H: 0')
CIE Type: Direct

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°	8556	8556	8556
5°	8582	8460	8525
10°	8530	8392	8457
15°	8423	8297	8326
20°	8301	8148	8164
25°	8142	7984	8001
30°	7968	7811	7737
35°	7788	7588	7545
40°	7601	7388	7275
45°	7357	7176	7035
50°	7117	6939	6794
55°	6868	6693	6519
60°	6608	6422	6238
65°	6316	6080	5877
70°	5926	5674	5468
75°	5433	5212	5044
80°	4768	4600	4439
85°	4005	3936	3602



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.5	3.6
10°-20°	187.5	10.3
20°-30°	276.6	15.2
30°-40°	322.7	17.7
40°-50°	323.8	17.8
50°-60°	283.7	15.6
60°-70°	210.3	11.5
70°-80°	118.3	6.5
80°-90°	32.2	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°	530.6	29.1
0°-40°	853.3	46.8
0°-60°	1460.8	80.2
0°-90°	1821.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1821.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	706	706	706	706	706	
5°	705	703	695	702	701	67
15°	671	669	661	665	664	189
25°	609	605	597	599	598	280
35°	526	522	513	511	510	329
45°	429	427	419	414	410	331
55°	325	325	317	311	308	291
65°	220	218	212	207	205	218
75°	116	114	111	110	108	123
85°	29	29	28	27	26	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	705.9	705.9	705.9	705.9	705.9
2.5°	708.9	706.5	698.9	705.3	704.7
5°	705.3	703.0	695.3	702.4	700.6
7.5°	700.6	697.7	689.4	695.9	695.3
10°	693.0	690.0	681.8	687.7	687.1
12.5°	683.5	680.6	672.4	677.1	675.9
15°	671.2	669.4	661.2	664.7	663.5
17.5°	658.2	655.3	646.5	650.0	650.0
20°	643.5	640.6	631.7	635.3	632.9
22.5°	626.4	622.9	615.8	617.6	615.2
25°	608.8	605.2	597.0	598.8	598.2
27.5°	589.3	585.8	577.0	577.0	575.8
30°	569.3	566.4	558.1	555.8	552.8
32.5°	548.1	544.0	536.4	534.6	532.2
35°	526.3	522.2	512.8	511.0	509.9
37.5°	502.2	499.3	491.6	486.9	484.0
40°	480.4	475.7	466.9	462.8	459.8
42.5°	454.5	452.2	442.7	438.6	435.1
45°	429.2	427.4	418.6	413.9	410.4
47.5°	405.1	402.1	393.3	387.4	385.6
50°	377.4	375.6	368.0	362.7	360.3
52.5°	352.1	350.3	342.7	336.8	334.4
55°	325.0	325.0	316.7	310.9	308.5
57.5°	300.3	297.9	290.3	285.5	282.6
60°	272.6	270.8	264.9	258.5	257.3
62.5°	247.3	244.9	237.9	233.1	232.0
65°	220.2	217.8	212.0	206.7	204.9
67.5°	194.9	190.8	186.0	181.3	179.0
70°	167.2	164.9	160.1	156.6	154.3
72.5°	140.7	138.4	135.4	132.5	131.3
75°	116.0	113.6	111.3	109.5	107.7
77.5°	91.3	90.1	88.3	86.0	86.0
80°	68.3	67.1	65.9	64.2	63.6
82.5°	47.7	47.1	45.9	45.3	45.3
85°	28.8	28.8	28.3	27.1	25.9
87.5°	13.0	11.8	11.8	10.6	10.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)