

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: **8RCG-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: 8RCG-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

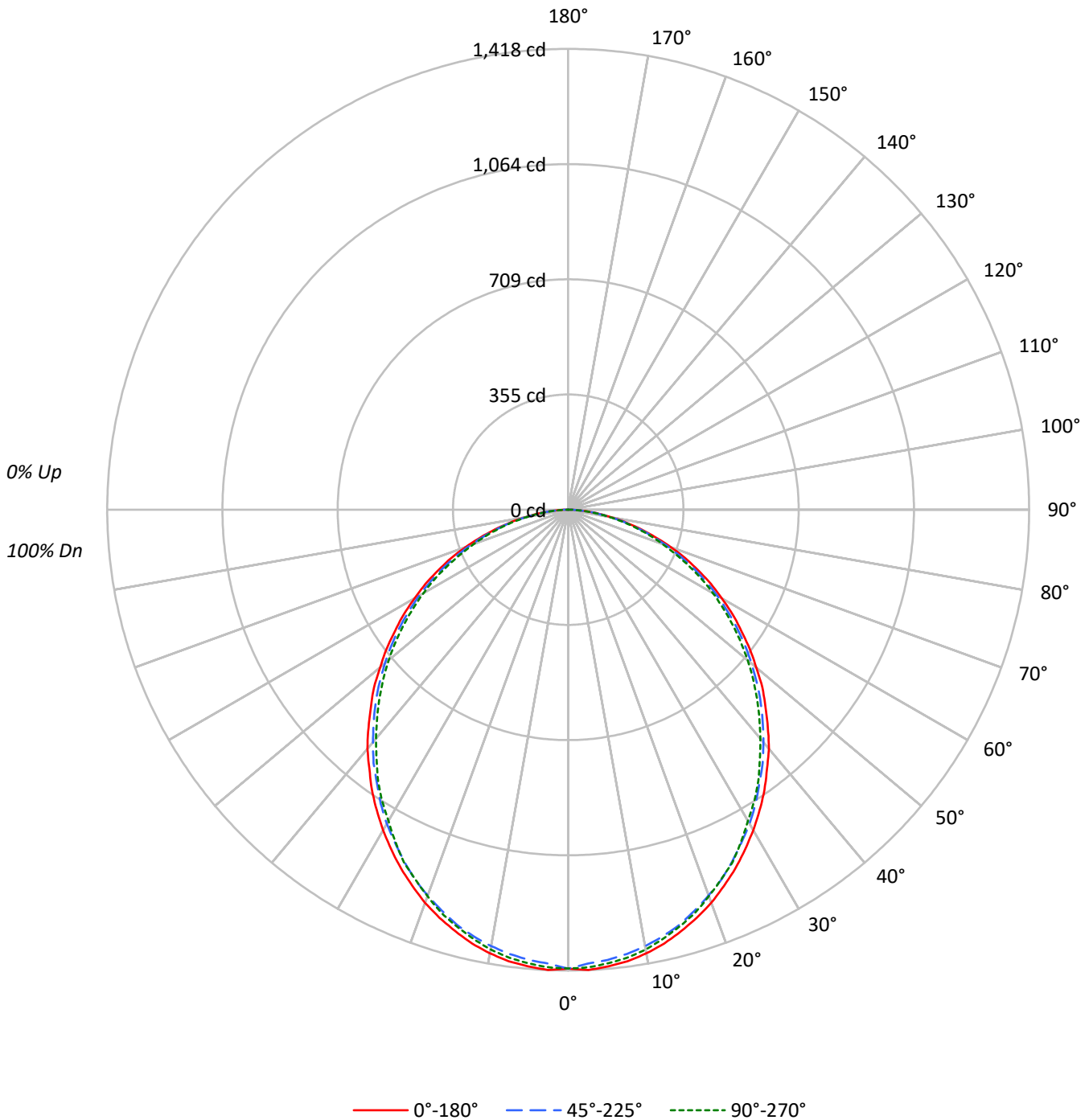
Lumens per Lamp: N/A
Luminaire Lumens: 3643.2 lumens
Efficiency: N/A
Efficacy: 97.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.3
Luminous Opening: Rectangular (W 0.23' x L: 7.88' x H: 0')
CIE Type: Direct

Input Watts (W): 37.2
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°	8421	8421	8421
5°	8446	8326	8389
10°	8394	8259	8323
15°	8289	8166	8194
20°	8169	8019	8034
25°	8013	7858	7874
30°	7842	7687	7614
35°	7664	7468	7425
40°	7481	7271	7160
45°	7241	7062	6923
50°	7004	6829	6686
55°	6759	6586	6416
60°	6504	6320	6139
65°	6215	5984	5784
70°	5832	5584	5382
75°	5346	5130	4964
80°	4692	4527	4369
85°	3942	3873	3545



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.0	3.6
10°-20°	375.0	10.3
20°-30°	553.2	15.2
30°-40°	645.5	17.7
40°-50°	647.6	17.8
50°-60°	567.3	15.6
60°-70°	420.6	11.5
70°-80°	236.5	6.5
80°-90°	64.5	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°	1061.2	29.1
0°-40°	1706.7	46.8
0°-60°	2921.6	80.2
0°-90°	3643.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3643.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1412	1412	1412	1412	1412	
5°	1411	1406	1391	1405	1401	134
15°	1342	1339	1322	1329	1327	379
25°	1218	1210	1194	1198	1196	561
35°	1053	1044	1026	1022	1020	658
45°	858	855	837	828	821	663
55°	650	650	633	622	617	582
65°	440	436	424	413	410	437
75°	232	227	223	219	215	246
85°	58	58	57	54	52	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1411.8	1411.8	1411.8	1411.8	1411.8
2.5°	1417.8	1413.0	1397.8	1410.6	1409.4
5°	1410.6	1406.0	1390.6	1404.8	1401.2
7.5°	1401.2	1395.4	1378.8	1391.8	1390.6
10°	1386.0	1380.0	1363.6	1375.4	1374.2
12.5°	1367.0	1361.2	1344.8	1354.2	1351.8
15°	1342.4	1338.8	1322.4	1329.4	1327.0
17.5°	1316.4	1310.6	1293.0	1300.0	1300.0
20°	1287.0	1281.2	1263.4	1270.6	1265.8
22.5°	1252.8	1245.8	1231.6	1235.2	1230.4
25°	1217.6	1210.4	1194.0	1197.6	1196.4
27.5°	1178.6	1171.6	1154.0	1154.0	1151.6
30°	1138.6	1132.8	1116.2	1111.6	1105.6
32.5°	1096.2	1088.0	1072.8	1069.2	1064.4
35°	1052.6	1044.4	1025.6	1022.0	1019.8
37.5°	1004.4	998.6	983.2	973.8	968.0
40°	960.8	951.4	933.8	925.6	919.6
42.5°	909.0	904.4	885.4	877.2	870.2
45°	858.4	854.8	837.2	827.8	820.8
47.5°	810.2	804.2	786.6	774.8	771.2
50°	754.8	751.2	736.0	725.4	720.6
52.5°	704.2	700.6	685.4	673.6	668.8
55°	650.0	650.0	633.4	621.8	617.0
57.5°	600.6	595.8	580.6	571.0	565.2
60°	545.2	541.6	529.8	517.0	514.6
62.5°	494.6	489.8	475.8	466.2	464.0
65°	440.4	435.6	424.0	413.4	409.8
67.5°	389.8	381.6	372.0	362.6	358.0
70°	334.4	329.8	320.2	313.2	308.6
72.5°	281.4	276.8	270.8	265.0	262.6
75°	232.0	227.2	222.6	219.0	215.4
77.5°	182.6	180.2	176.6	172.0	172.0
80°	136.6	134.2	131.8	128.4	127.2
82.5°	95.4	94.2	91.8	90.6	90.6
85°	57.6	57.6	56.6	54.2	51.8
87.5°	26.0	23.6	23.6	21.2	21.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)