

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: **8RCG-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: 8RCG-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

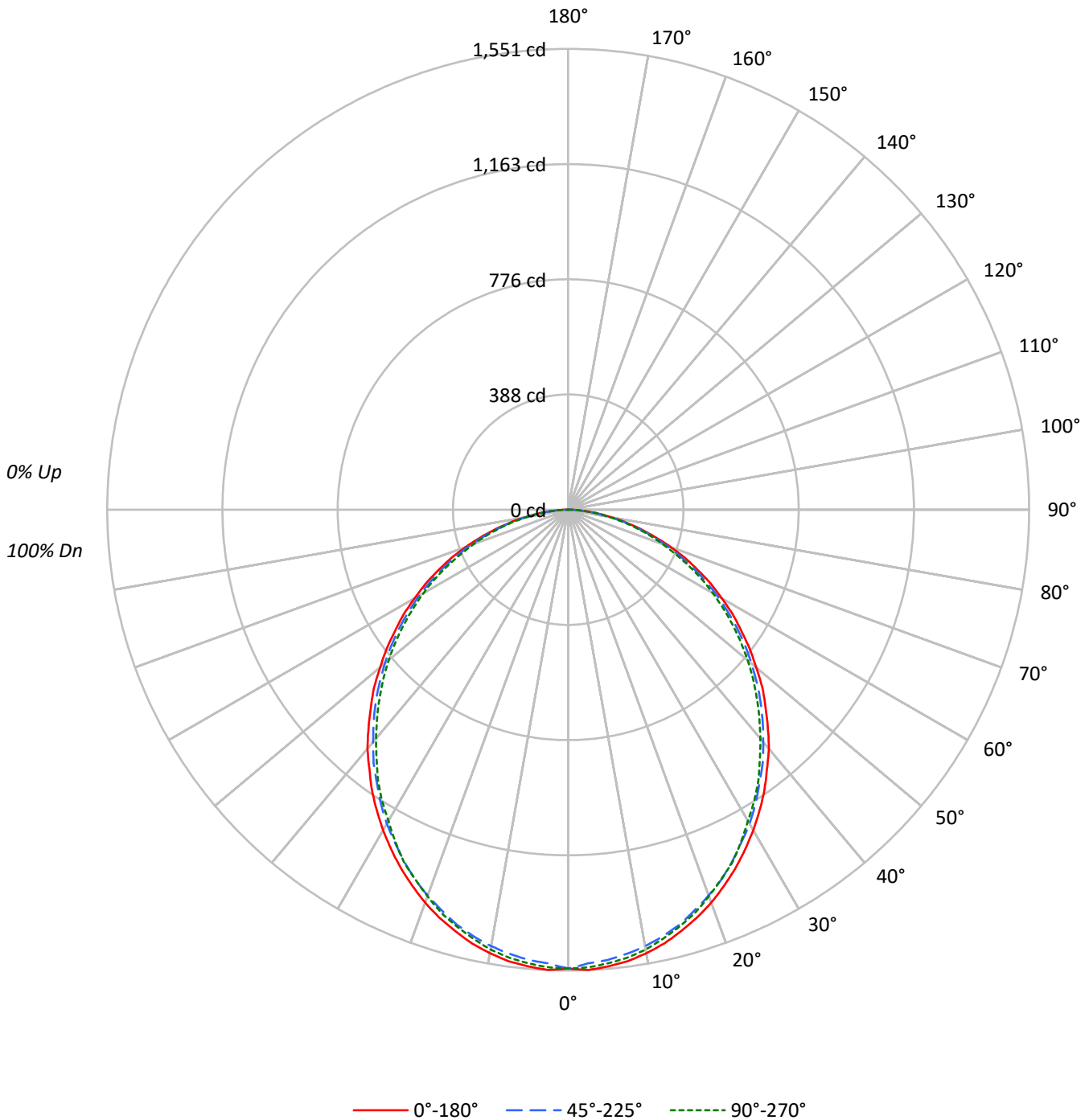
Lumens per Lamp: N/A
Luminaire Lumens: 3984.6 lumens
Efficiency: N/A
Efficacy: 107.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.3
Luminous Opening: Rectangular (W 0.23' x L: 7.88' x H: 0')
CIE Type: Direct

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°	9210	9210	9210
5°	9237	9107	9176
10°	9180	9033	9103
15°	9066	8930	8962
20°	8934	8771	8787
25°	8763	8593	8611
30°	8577	8408	8329
35°	8384	8168	8120
40°	8182	7951	7831
45°	7919	7723	7571
50°	7661	7470	7314
55°	7393	7204	7017
60°	7112	6914	6714
65°	6797	6543	6325
70°	6379	6107	5884
75°	5849	5609	5429
80°	5132	4953	4774
85°	4325	4229	3873



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.4	3.6
10°-20°	410.2	10.3
20°-30°	605.1	15.2
30°-40°	706.0	17.7
40°-50°	708.3	17.8
50°-60°	620.5	15.6
60°-70°	460.0	11.5
70°-80°	258.7	6.5
80°-90°	70.5	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°	1160.7	29.1
0°-40°	1866.6	46.8
0°-60°	3195.4	80.2
0°-90°	3984.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3984.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1544	1544	1544	1544	1544	
5°	1543	1538	1521	1536	1533	146
15°	1468	1464	1446	1454	1451	414
25°	1332	1324	1306	1310	1308	613
35°	1151	1142	1122	1118	1115	720
45°	939	935	916	905	898	725
55°	711	711	693	680	675	637
65°	482	477	464	452	448	477
75°	254	249	243	240	236	269
85°	63	63	62	59	57	74
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1544.2	1544.2	1544.2	1544.2	1544.2
2.5°	1550.6	1545.4	1528.6	1542.8	1541.6
5°	1542.8	1537.8	1521.0	1536.4	1532.6
7.5°	1532.6	1526.2	1508.0	1522.2	1521.0
10°	1515.8	1509.4	1491.4	1504.2	1503.0
12.5°	1495.2	1488.8	1470.8	1481.0	1478.4
15°	1468.2	1464.4	1446.2	1454.0	1451.4
17.5°	1439.8	1433.4	1414.0	1421.8	1421.8
20°	1407.6	1401.2	1381.8	1389.6	1384.4
22.5°	1370.2	1362.6	1347.2	1351.0	1345.8
25°	1331.6	1324.0	1305.8	1309.8	1308.4
27.5°	1289.2	1281.4	1262.2	1262.2	1259.6
30°	1245.4	1239.0	1220.8	1215.8	1209.4
32.5°	1199.0	1190.0	1173.2	1169.4	1164.2
35°	1151.4	1142.4	1121.8	1117.8	1115.2
37.5°	1098.6	1092.2	1075.4	1065.0	1058.6
40°	1050.8	1040.6	1021.2	1012.2	1005.8
42.5°	994.2	989.0	968.4	959.4	951.8
45°	938.8	935.0	915.6	905.4	897.6
47.5°	886.0	879.6	860.2	847.4	843.6
50°	825.6	821.6	805.0	793.4	788.2
52.5°	770.2	766.2	749.6	736.6	731.6
55°	711.0	711.0	692.8	680.0	674.8
57.5°	656.8	651.6	635.0	624.6	618.2
60°	596.2	592.4	579.6	565.4	562.8
62.5°	541.0	535.8	520.2	510.0	507.4
65°	481.6	476.6	463.6	452.0	448.2
67.5°	426.2	417.2	407.0	396.6	391.6
70°	365.8	360.6	350.2	342.6	337.4
72.5°	307.8	302.6	296.2	289.8	287.2
75°	253.8	248.6	243.4	239.6	235.6
77.5°	199.6	197.0	193.2	188.0	188.0
80°	149.4	146.8	144.2	140.4	139.0
82.5°	104.4	103.0	100.4	99.2	99.2
85°	63.2	63.2	61.8	59.2	56.6
87.5°	28.4	25.8	25.8	23.2	23.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)