

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: P273742

Luminaire Tested: **8RCG-4-56D-L840**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P273742
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-L840
Description: RCG SERIES DIRECT RECESSED LED LUMINAIRE WITH FROST FLUSH LENS
Light Source: (168) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

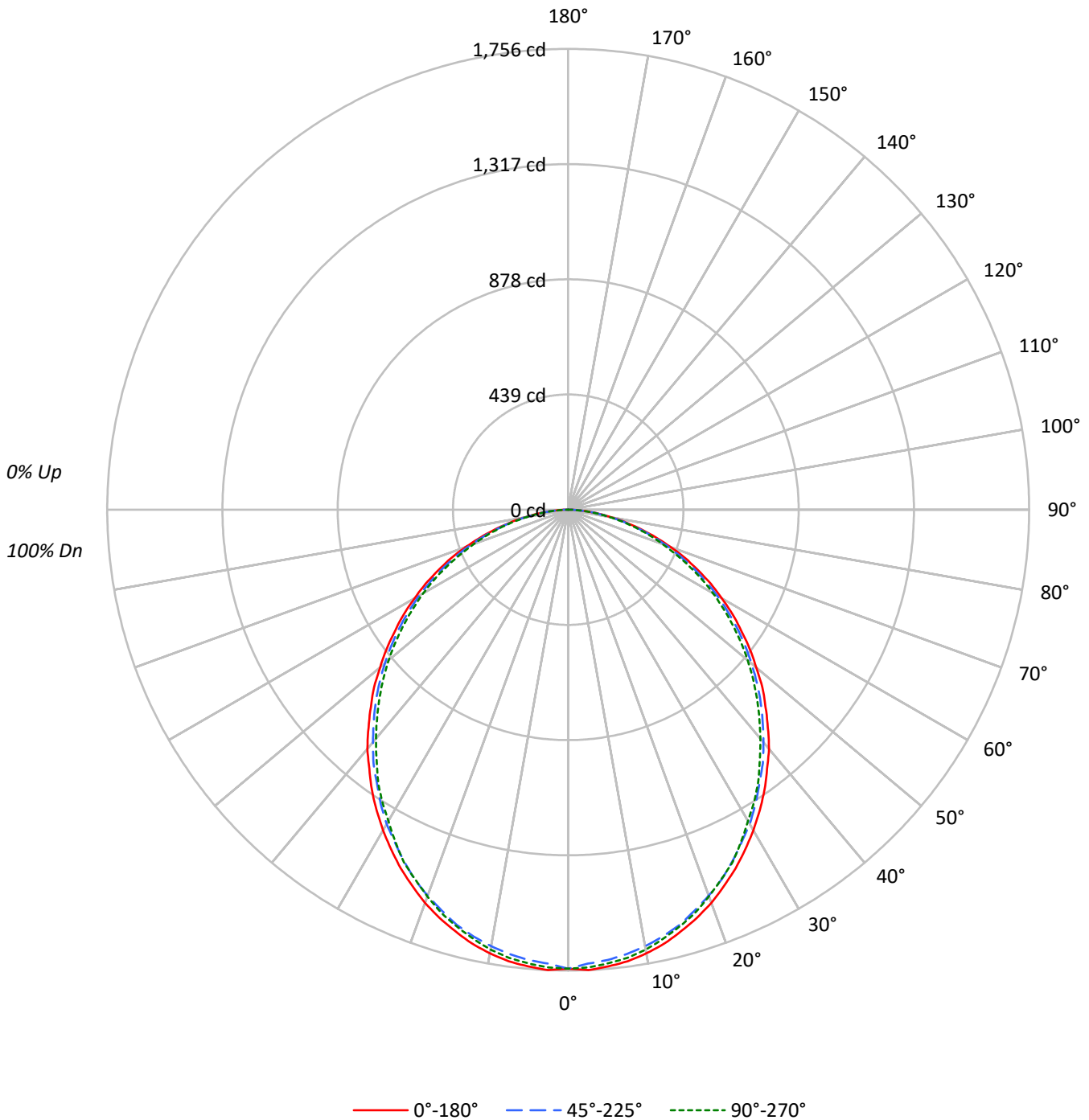
Lumens per Lamp: N/A
Luminaire Lumens: 4512.6 lumens
Efficiency: N/A
Efficacy: 121.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.3
Luminous Opening: Rectangular (W 0.23' x L: 7.88' x H: 0')
CIE Type: Direct

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°	10431	10431	10431
5°	10461	10314	10391
10°	10396	10229	10308
15°	10267	10114	10150
20°	10119	9933	9952
25°	9925	9733	9752
30°	9714	9522	9433
35°	9495	9250	9196
40°	9267	9005	8868
45°	8968	8747	8575
50°	8676	8459	8282
55°	8371	8159	7947
60°	8054	7830	7603
65°	7697	7409	7164
70°	7223	6920	6665
75°	6623	6351	6153
80°	5812	5612	5413
85°	4886	4790	4393



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.7	3.6
10°-20°	464.5	10.3
20°-30°	685.3	15.2
30°-40°	799.5	17.7
40°-50°	802.1	17.8
50°-60°	702.7	15.6
60°-70°	521.0	11.5
70°-80°	293.0	6.5
80°-90°	79.8	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°	1314.5	29.1
0°-40°	2114.0	46.8
0°-60°	3618.8	80.2
0°-90°	4512.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4512.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1749	1749	1749	1749	1749	
5°	1747	1741	1723	1740	1736	166
15°	1663	1658	1638	1647	1644	469
25°	1508	1499	1479	1483	1482	694
35°	1304	1294	1270	1266	1263	815
45°	1063	1059	1037	1025	1017	821
55°	805	805	785	770	764	721
65°	545	540	525	512	508	541
75°	287	281	276	271	267	304
85°	71	71	70	67	64	83
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1748.8	1748.8	1748.8	1748.8	1748.8
2.5°	1756.0	1750.2	1731.2	1747.2	1745.8
5°	1747.2	1741.4	1722.6	1740.0	1735.6
7.5°	1735.6	1728.4	1708.0	1724.0	1722.6
10°	1716.6	1709.4	1689.0	1703.6	1702.0
12.5°	1693.4	1686.0	1665.6	1677.2	1674.4
15°	1662.8	1658.4	1638.0	1646.6	1643.8
17.5°	1630.6	1623.4	1601.4	1610.2	1610.2
20°	1594.2	1586.8	1565.0	1573.8	1568.0
22.5°	1551.8	1543.2	1525.6	1530.0	1524.2
25°	1508.2	1499.4	1479.0	1483.4	1481.8
27.5°	1460.0	1451.2	1429.4	1429.4	1426.4
30°	1410.4	1403.0	1382.6	1376.8	1369.6
32.5°	1357.8	1347.6	1328.8	1324.4	1318.4
35°	1304.0	1293.8	1270.4	1266.0	1263.0
37.5°	1244.2	1236.8	1217.8	1206.2	1198.8
40°	1190.2	1178.4	1156.6	1146.4	1139.0
42.5°	1126.0	1120.2	1096.8	1086.6	1077.8
45°	1063.2	1058.8	1037.0	1025.4	1016.6
47.5°	1003.4	996.2	974.2	959.8	955.4
50°	935.0	930.6	911.6	898.4	892.6
52.5°	872.2	867.8	848.8	834.2	828.4
55°	805.0	805.0	784.6	770.0	764.2
57.5°	743.8	738.0	719.0	707.4	700.0
60°	675.2	671.0	656.4	640.2	637.4
62.5°	612.6	606.8	589.2	577.6	574.6
65°	545.4	539.6	525.0	512.0	507.6
67.5°	482.8	472.6	460.8	449.2	443.4
70°	414.2	408.4	396.8	388.0	382.2
72.5°	348.6	342.8	335.4	328.2	325.2
75°	287.4	281.4	275.6	271.2	267.0
77.5°	226.0	223.2	218.8	213.0	213.0
80°	169.2	166.2	163.4	159.0	157.6
82.5°	118.2	116.6	113.8	112.4	112.4
85°	71.4	71.4	70.0	67.0	64.2
87.5°	32.0	29.2	29.2	26.2	26.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)