

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: P273751

Luminaire Tested: **8RCG-4-56D-L935**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P273751  
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-L935  
Description: RCG SERIES DIRECT RECESSED LED LUMINAIRE WITH FROST FLUSH LENS  
Light Source: (168) 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

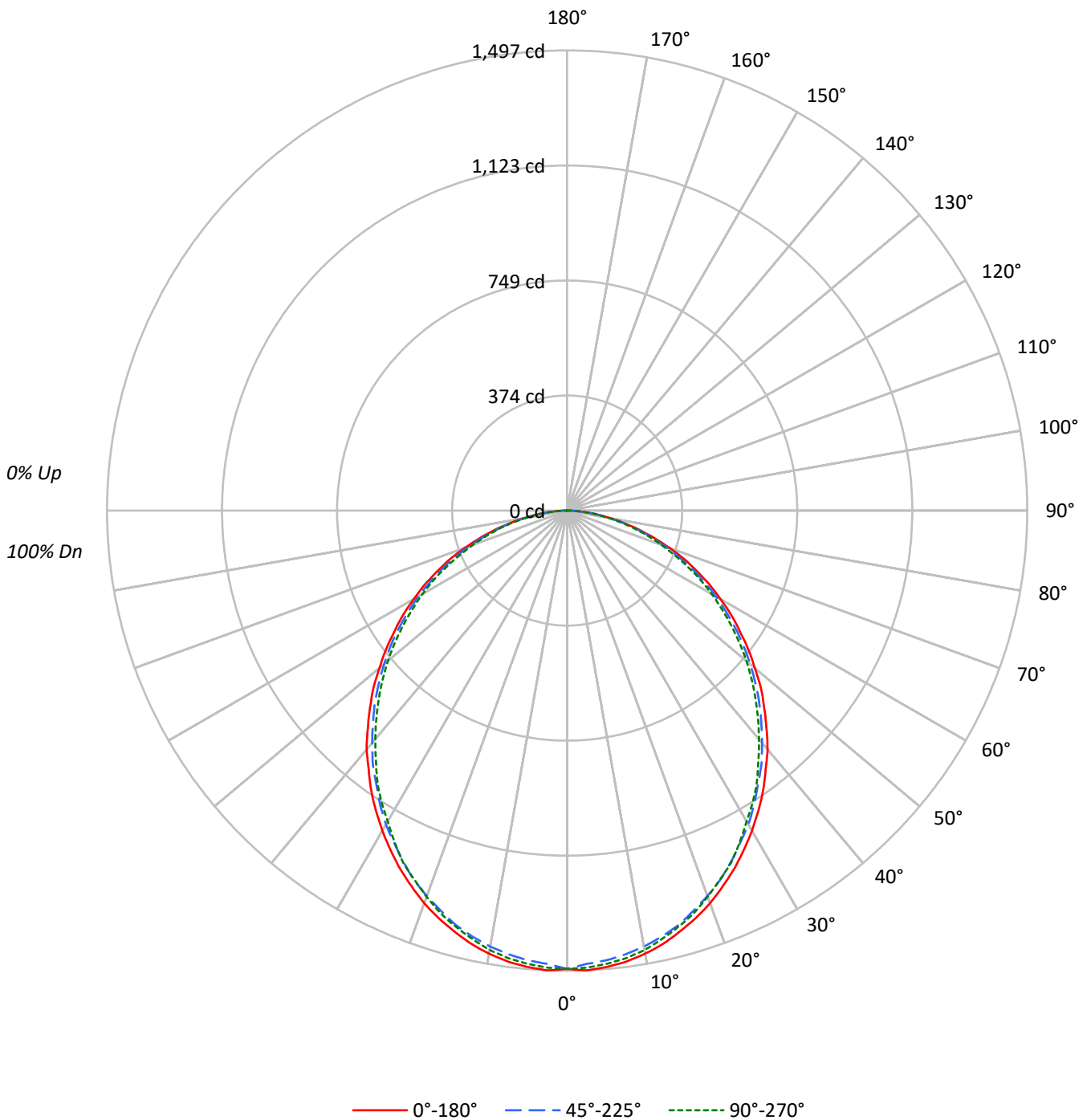
Lumens per Lamp: N/A  
Luminaire Lumens: 3847.4 lumens  
Efficiency: N/A  
Efficacy: 103.4 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.3  
Luminous Opening: Rectangular (W 0.23' x L: 7.88' x H: 0')  
CIE Type: Direct

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°	8893	8893	8893
5°	8920	8793	8860
10°	8864	8721	8789
15°	8753	8623	8653
20°	8627	8468	8485
25°	8462	8299	8314
30°	8281	8119	8041
35°	8094	7886	7840
40°	7901	7679	7562
45°	7647	7458	7311
50°	7395	7212	7061
55°	7138	6957	6776
60°	6869	6675	6482
65°	6563	6317	6108
70°	6159	5898	5682
75°	5646	5416	5245
80°	4953	4781	4609
85°	4174	4079	3750



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	140.4	3.6
10°-20°	396.0	10.3
20°-30°	584.2	15.2
30°-40°	681.7	17.7
40°-50°	683.9	17.8
50°-60°	599.1	15.6
60°-70°	444.1	11.5
70°-80°	249.8	6.5
80°-90°	68.1	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°	1120.7	29.1
0°-40°	1802.3	46.8
0°-60°	3085.4	80.2
0°-90°	3847.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3847.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1491	1491	1491	1491	1491	
5°	1490	1485	1469	1484	1480	141
15°	1418	1414	1396	1404	1401	400
25°	1286	1278	1261	1265	1263	592
35°	1112	1103	1083	1079	1077	695
45°	907	903	884	874	867	700
55°	686	686	669	657	652	615
65°	465	460	448	436	433	461
75°	245	240	235	231	228	259
85°	61	61	60	57	55	71
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1491.0	1491.0	1491.0	1491.0	1491.0
2.5°	1497.2	1492.2	1476.0	1489.8	1488.4
5°	1489.8	1484.8	1468.6	1483.6	1479.8
7.5°	1479.8	1473.6	1456.2	1469.8	1468.6
10°	1463.6	1457.4	1440.0	1452.4	1451.2
12.5°	1443.8	1437.4	1420.0	1430.0	1427.6
15°	1417.6	1413.8	1396.4	1404.0	1401.4
17.5°	1390.2	1384.0	1365.4	1372.8	1372.8
20°	1359.2	1353.0	1334.2	1341.8	1336.8
22.5°	1323.0	1315.6	1300.8	1304.4	1299.4
25°	1285.8	1278.4	1261.0	1264.6	1263.4
27.5°	1244.8	1237.2	1218.6	1218.6	1216.2
30°	1202.4	1196.2	1178.8	1173.8	1167.6
32.5°	1157.8	1149.0	1132.8	1129.2	1124.2
35°	1111.6	1103.0	1083.0	1079.4	1076.8
37.5°	1060.8	1054.4	1038.4	1028.4	1022.2
40°	1014.8	1004.8	986.2	977.4	971.2
42.5°	960.0	955.0	935.2	926.4	919.0
45°	906.6	902.8	884.2	874.2	866.8
47.5°	855.6	849.4	830.6	818.2	814.6
50°	797.0	793.4	777.2	766.0	761.0
52.5°	743.6	739.8	723.8	711.2	706.4
55°	686.4	686.4	669.0	656.6	651.6
57.5°	634.2	629.2	613.0	603.2	596.8
60°	575.8	572.0	559.6	546.0	543.4
62.5°	522.2	517.4	502.4	492.4	490.0
65°	465.0	460.0	447.6	436.4	432.8
67.5°	411.6	402.8	393.0	383.0	378.0
70°	353.2	348.2	338.2	330.8	325.8
72.5°	297.2	292.2	286.0	279.8	277.4
75°	245.0	240.0	235.0	231.2	227.6
77.5°	192.8	190.2	186.6	181.6	181.6
80°	144.2	141.8	139.2	135.6	134.2
82.5°	100.8	99.4	97.0	95.8	95.8
85°	61.0	61.0	59.6	57.2	54.8
87.5°	27.4	24.8	24.8	22.4	22.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)