

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: P273736

Luminaire Tested: **8RCG-4-56D-L830**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P273736  
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-L830  
Description: RCG SERIES DIRECT RECESSED LED LUMINAIRE WITH FROST FLUSH LENS  
Light Source: (168) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

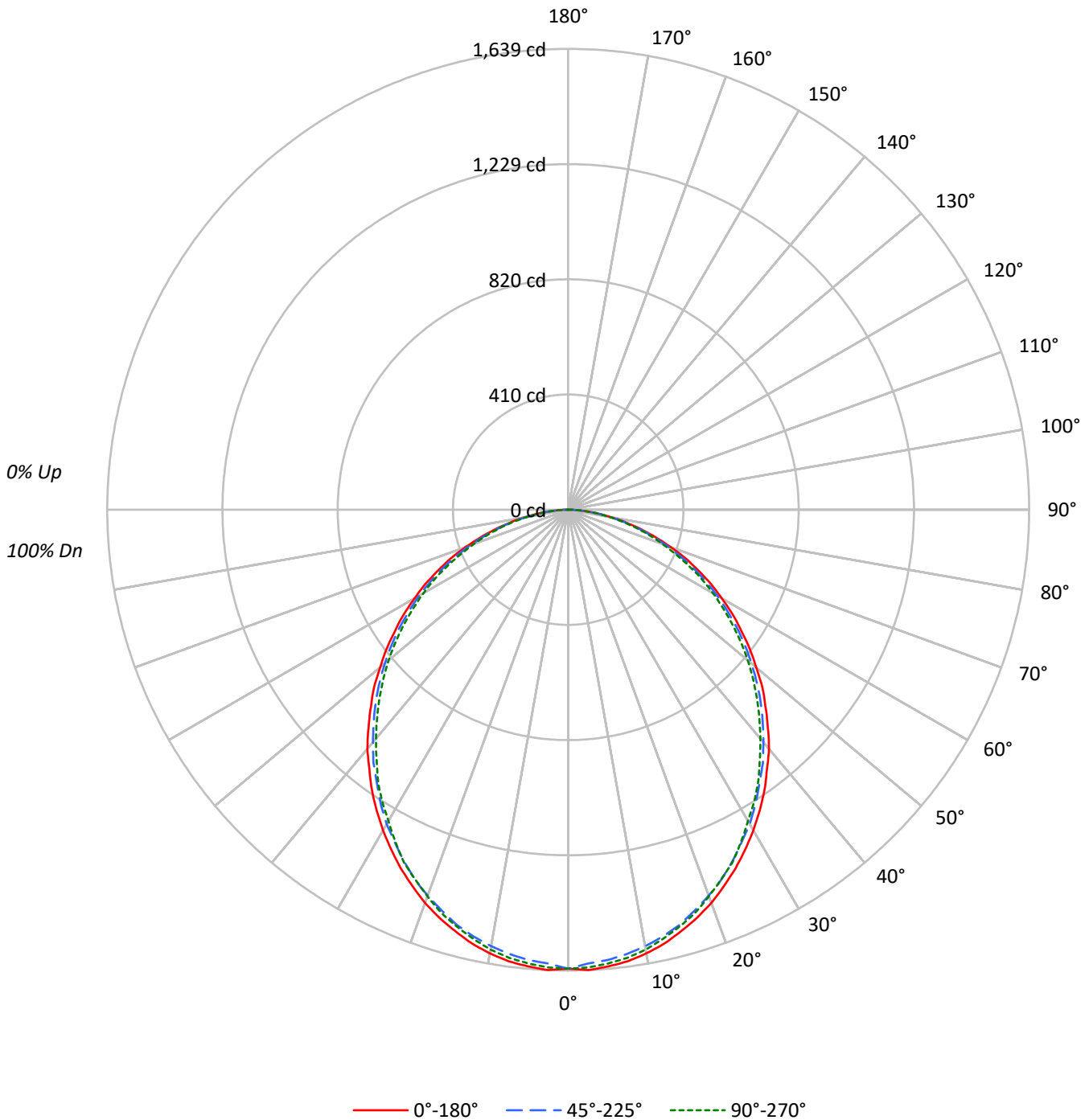
Lumens per Lamp: N/A  
Luminaire Lumens: 4211.7 lumens  
Efficiency: N/A  
Efficacy: 113.2 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.3  
Luminous Opening: Rectangular (W 0.23' x L: 7.88' x H: 0')  
CIE Type: Direct

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°	9735	9735	9735
5°	9764	9625	9699
10°	9704	9547	9621
15°	9582	9440	9473
20°	9443	9271	9288
25°	9263	9084	9102
30°	9066	8887	8803
35°	8861	8633	8583
40°	8649	8404	8278
45°	8371	8163	8003
50°	8097	7895	7731
55°	7814	7616	7418
60°	7518	7308	7095
65°	7186	6915	6687
70°	6742	6456	6219
75°	6181	5927	5743
80°	5427	5235	5049
85°	4571	4476	4092



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	153.7	3.6
10°-20°	433.6	10.3
20°-30°	639.6	15.2
30°-40°	746.2	17.7
40°-50°	748.7	17.8
50°-60°	655.9	15.6
60°-70°	486.2	11.5
70°-80°	273.5	6.5
80°-90°	74.5	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°	1226.8	29.1
0°-40°	1973.0	46.8
0°-60°	3377.5	80.2
0°-90°	4211.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4211.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1632	1632	1632	1632	1632	
5°	1631	1625	1608	1624	1620	155
15°	1552	1548	1529	1537	1534	438
25°	1408	1399	1380	1384	1383	648
35°	1217	1207	1186	1182	1179	761
45°	992	988	968	957	949	766
55°	751	751	732	719	713	673
65°	509	504	490	478	474	505
75°	268	263	257	253	249	284
85°	67	67	65	63	60	78
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1632.2	1632.2	1632.2	1632.2	1632.2
2.5°	1639.0	1633.6	1615.8	1630.8	1629.4
5°	1630.8	1625.4	1607.6	1624.0	1620.0
7.5°	1620.0	1613.2	1594.0	1609.0	1607.6
10°	1602.2	1595.4	1576.4	1590.0	1588.6
12.5°	1580.4	1573.6	1554.6	1565.4	1562.8
15°	1551.8	1547.8	1528.8	1536.8	1534.2
17.5°	1522.0	1515.2	1494.6	1502.8	1502.8
20°	1487.8	1481.0	1460.6	1468.8	1463.4
22.5°	1448.4	1440.2	1423.8	1428.0	1422.6
25°	1407.6	1399.4	1380.4	1384.4	1383.0
27.5°	1362.6	1354.4	1334.0	1334.0	1331.4
30°	1316.4	1309.6	1290.4	1285.0	1278.2
32.5°	1267.4	1257.8	1240.2	1236.0	1230.6
35°	1217.0	1207.4	1185.6	1181.6	1178.8
37.5°	1161.2	1154.4	1136.6	1125.8	1119.0
40°	1110.8	1100.0	1079.4	1070.0	1063.2
42.5°	1051.0	1045.4	1023.6	1014.2	1006.0
45°	992.4	988.2	967.8	957.0	948.8
47.5°	936.6	929.8	909.4	895.8	891.6
50°	872.6	868.4	850.8	838.6	833.2
52.5°	814.0	810.0	792.2	778.6	773.2
55°	751.4	751.4	732.4	718.8	713.4
57.5°	694.2	688.8	671.2	660.2	653.4
60°	630.2	626.2	612.6	597.6	594.8
62.5°	571.8	566.2	550.0	539.0	536.4
65°	509.2	503.6	490.0	477.8	473.8
67.5°	450.6	441.0	430.2	419.2	413.8
70°	386.6	381.2	370.2	362.2	356.6
72.5°	325.4	320.0	313.0	306.2	303.6
75°	268.2	262.8	257.2	253.2	249.2
77.5°	211.0	208.2	204.2	198.8	198.8
80°	158.0	155.2	152.4	148.4	147.0
82.5°	110.2	109.0	106.2	104.8	104.8
85°	66.8	66.8	65.4	62.6	59.8
87.5°	30.0	27.2	27.2	24.6	24.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)