

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: P273739

Luminaire Tested: **8RCG-4-56D-L835**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P273739  
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-L835  
Description: RCG SERIES DIRECT RECESSED LED LUMINAIRE WITH FROST FLUSH LENS  
Light Source: (168) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

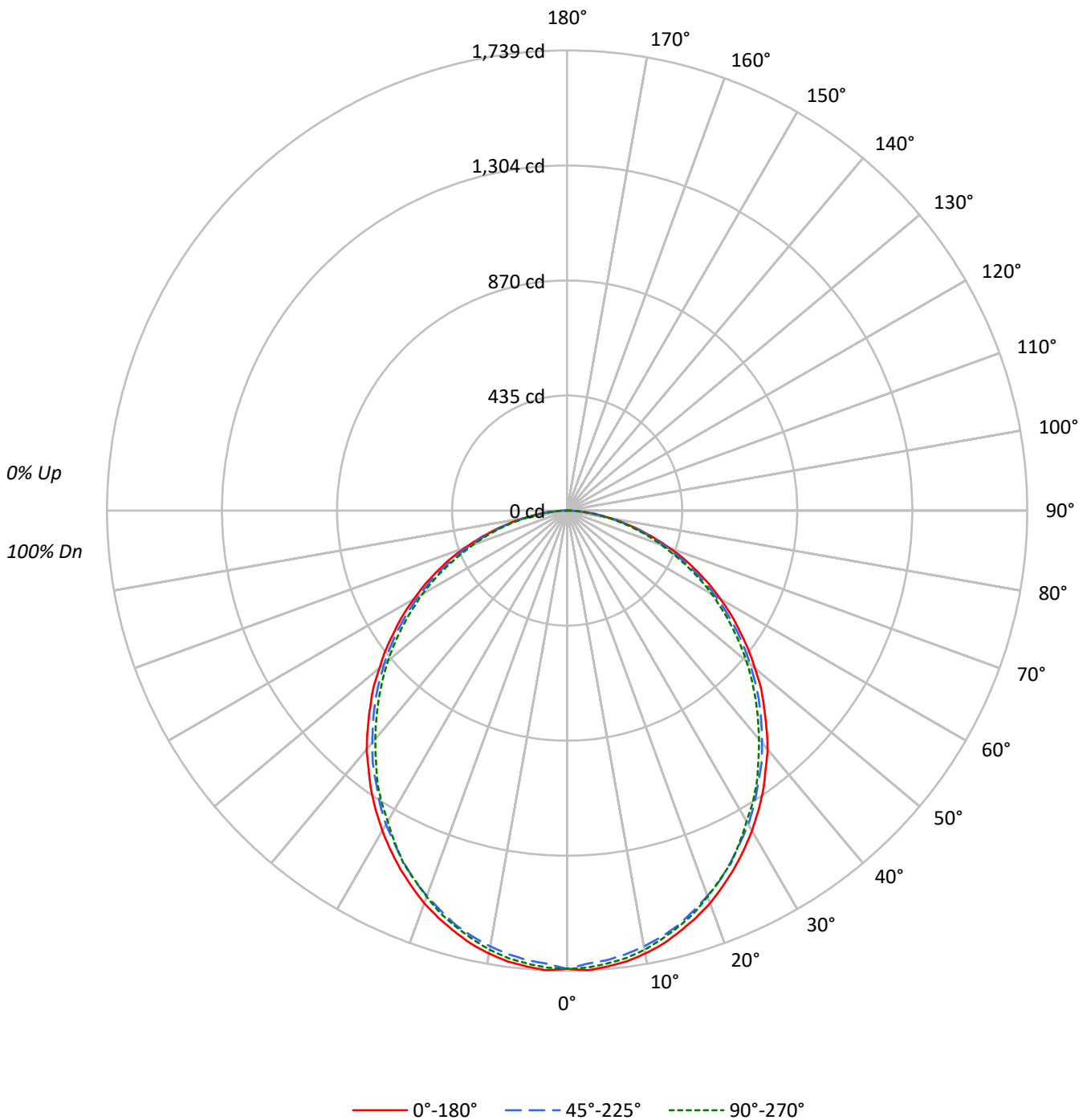
Lumens per Lamp: N/A  
Luminaire Lumens: 4468.5 lumens  
Efficiency: N/A  
Efficacy: 120.1 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.3  
Luminous Opening: Rectangular (W 0.23' x L: 7.88' x H: 0')  
CIE Type: Direct

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°	10328	10328	10328
5°	10359	10212	10290
10°	10295	10129	10207
15°	10166	10016	10050
20°	10020	9836	9855
25°	9828	9637	9657
30°	9619	9430	9340
35°	9401	9160	9107
40°	9177	8918	8783
45°	8880	8661	8491
50°	8590	8375	8201
55°	8290	8080	7870
60°	7976	7754	7529
65°	7624	7339	7093
70°	7153	6850	6599
75°	6559	6291	6093
80°	5757	5557	5358
85°	4845	4749	4352



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	163.1	3.6
10°-20°	460.0	10.3
20°-30°	678.6	15.2
30°-40°	791.7	17.7
40°-50°	794.3	17.8
50°-60°	695.8	15.6
60°-70°	515.9	11.5
70°-80°	290.1	6.5
80°-90°	79.1	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°	1301.6	29.1
0°-40°	2093.3	46.8
0°-60°	3583.5	80.2
0°-90°	4468.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4468.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1732	1732	1732	1732	1732	
5°	1730	1724	1706	1723	1719	164
15°	1646	1642	1622	1631	1628	464
25°	1493	1485	1464	1469	1467	688
35°	1291	1281	1258	1254	1251	807
45°	1053	1049	1027	1015	1007	813
55°	797	797	777	763	757	714
65°	540	534	520	507	503	535
75°	285	279	273	269	264	301
85°	71	71	69	66	64	83
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1731.6	1731.6	1731.6	1731.6	1731.6
2.5°	1738.8	1733.2	1714.4	1730.2	1728.8
5°	1730.2	1724.4	1705.6	1723.0	1718.6
7.5°	1718.6	1711.4	1691.2	1707.2	1705.6
10°	1699.8	1692.6	1672.4	1687.0	1685.4
12.5°	1676.8	1669.6	1649.4	1661.0	1658.0
15°	1646.4	1642.2	1622.0	1630.6	1627.6
17.5°	1614.6	1607.4	1585.8	1594.4	1594.4
20°	1578.6	1571.4	1549.6	1558.4	1552.6
22.5°	1536.6	1528.0	1510.8	1515.0	1509.2
25°	1493.4	1484.8	1464.4	1468.8	1467.4
27.5°	1445.8	1437.0	1415.4	1415.4	1412.4
30°	1396.6	1389.4	1369.2	1363.4	1356.2
32.5°	1344.6	1334.6	1315.8	1311.4	1305.6
35°	1291.2	1281.0	1258.0	1253.6	1250.8
37.5°	1232.0	1224.8	1206.0	1194.4	1187.2
40°	1178.6	1167.0	1145.4	1135.2	1128.0
42.5°	1115.0	1109.2	1086.0	1076.0	1067.4
45°	1052.8	1048.6	1026.8	1015.4	1006.6
47.5°	993.6	986.4	964.8	950.4	946.0
50°	925.8	921.4	902.6	889.6	883.8
52.5°	863.6	859.4	840.6	826.2	820.4
55°	797.2	797.2	777.0	762.6	756.8
57.5°	736.6	730.8	712.0	700.4	693.2
60°	668.6	664.4	650.0	634.0	631.2
62.5°	606.6	600.8	583.4	572.0	569.0
65°	540.2	534.4	520.0	507.0	502.6
67.5°	478.0	468.0	456.4	444.8	439.0
70°	410.2	404.4	392.8	384.2	378.4
72.5°	345.2	339.4	332.2	325.0	322.0
75°	284.6	278.8	273.0	268.6	264.4
77.5°	223.8	221.0	216.6	210.8	210.8
80°	167.6	164.6	161.8	157.4	156.0
82.5°	117.0	115.6	112.6	111.2	111.2
85°	70.8	70.8	69.4	66.4	63.6
87.5°	31.8	28.8	28.8	26.0	26.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)